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## Enclosures and Climate Control

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# Enclosures & Climate Control



Insulated enclosures

H-1...2



Surface & Flush mount distribution boards

H-3...5



Floor-standing distribution boards

H-6



Modular floor standing distribution boards

H-7...12



Sheet metal & Polyester enclosures

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Stainless steel enclosures

H-17



Busbar system accessories

H-18



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H-19...22



Cabinet air conditioners

H-23

## Plastic enclosures IP56/66



686.204



686.206



686.409



686.230



COMBI 308


**Junction boxes for electrical installations (halogen free)**

SCABOX series plastic boxes/enclosures are ideal for housing electrical accessories and terminals for household and fixed electrical installations and offer IP56 degree of protection.

- Max. operating temperature: 60°C
- Colour: RAL 7035 grey (*stabilised*)
- Material: Self extinguishing thermoplastic
- Reference standards: EN 60439-1, EN 60670-1, EN60670-22

| type | IP rating | description | carton qty. | ext. dimension (mm) |     |     | price (ea) |
|------|-----------|-------------|-------------|---------------------|-----|-----|------------|
|      |           |             |             | (H)                 | (W) | (D) |            |

**Plastic housings**
**IP56**
**Shallow lid**

|          |      |                          |    |     |     |     |          |
|----------|------|--------------------------|----|-----|-----|-----|----------|
| 686.204  | IP56 | PVC housing - opaque lid | 40 | 100 | 100 | 50  | 58.00    |
| 686.205  | IP56 | PVC housing - opaque lid | 42 | 120 | 80  | 50  | 60.00    |
| 686.206  | IP56 | PVC housing - opaque lid | 48 | 150 | 110 | 70  | 90.00    |
| 686.207  | IP56 | PVC housing - opaque lid | 30 | 190 | 140 | 70  | 173.00   |
| 686.208* | IP56 | PVC housing - opaque lid | 16 | 240 | 190 | 90  | 283.00   |
| 686.209* | IP56 | PVC housing - opaque lid | 8  | 300 | 220 | 120 | 515.00   |
| 686.210* | IP56 | PVC housing - opaque lid | 4  | 380 | 300 | 120 | 667.00   |
| 686.211* | IP56 | PVC housing - opaque lid | 1  | 450 | 370 | 130 | 1 170.00 |

**Deep lid**

|          |      |                                          |    |     |     |     |          |
|----------|------|------------------------------------------|----|-----|-----|-----|----------|
| 686.404  | IP56 | PVC housing - opaque ( <i>high</i> ) lid | 24 | 100 | 100 | 80  | 90.00    |
| 686.408* | IP56 | PVC housing - opaque ( <i>high</i> ) lid | 6  | 240 | 190 | 125 | 374.00   |
| 686.409* | IP56 | PVC housing - opaque ( <i>high</i> ) lid | 6  | 300 | 220 | 170 | 638.00   |
| 686.410* | IP56 | PVC housing - opaque ( <i>high</i> ) lid | 3  | 380 | 300 | 170 | 975.00   |
| 686.411* | IP56 | PVC housing - opaque ( <i>high</i> ) lid | 1  | 450 | 370 | 180 | 1 340.00 |

**Transparent cover/ lid**
**Shallow lid**

|          |      |                               |    |     |     |     |          |
|----------|------|-------------------------------|----|-----|-----|-----|----------|
| 686.226  | IP56 | PVC housing - transparent lid | 48 | 150 | 110 | 70  | 202.00   |
| 686.227  | IP56 | PVC housing - transparent lid | 30 | 190 | 140 | 70  | 350.00   |
| 686.228* | IP56 | PVC housing - transparent lid | 16 | 240 | 190 | 90  | 545.00   |
| 686.229* | IP56 | PVC housing - transparent lid | 8  | 300 | 220 | 120 | 795.00   |
| 686.230* | IP56 | PVC housing - transparent lid | 4  | 380 | 300 | 120 | 1 280.00 |
| 686.231* | IP56 | PVC housing - transparent lid | 1  | 450 | 370 | 130 | 1 840.00 |

**Deep lid**

|          |      |                                               |   |     |     |     |          |
|----------|------|-----------------------------------------------|---|-----|-----|-----|----------|
| 686.428* | IP56 | PVC housing - transparent ( <i>high</i> ) lid | 6 | 240 | 190 | 125 | 655.00   |
| 686.429* | IP56 | PVC housing - transparent ( <i>high</i> ) lid | 6 | 300 | 220 | 170 | 923.00   |
| 686.430* | IP56 | PVC housing - transparent ( <i>high</i> ) lid | 3 | 380 | 300 | 170 | 1 580.00 |
| 686.431* | IP56 | PVC housing - transparent ( <i>high</i> ) lid | 1 | 450 | 370 | 180 | 2 170.00 |

**Accessories for above enclosures**
**Chassis plates (steel)**
**for enclosures**

|          |   |                                          |                     |     |     |            |        |
|----------|---|------------------------------------------|---------------------|-----|-----|------------|--------|
| 654.0787 | — | chassis plate for enc.                   | 686.207/227         | 190 | 140 | —          | 108.00 |
| 654.0788 | — | chassis plate for enc.                   | 686.208/408/228/428 | 240 | 190 | —          | 164.00 |
| 654.0789 | — | chassis plate for enc.                   | 686.209/409/229/429 | 300 | 220 | —          | 237.00 |
| 654.0790 | — | chassis plate for enc.                   | 686.210/410/230/430 | 380 | 300 | —          | 648.00 |
| 654.0791 | — | chassis plate for enc.                   | 686.211/411/231/431 | 460 | 380 | —          | 777.00 |
| 654.0080 | — | sealing caps for internal mounting holes |                     |     |     | (12 pcs)   | 46.00  |
| 654.0085 | — | kit to hinge the lid on enclosures       |                     |     |     | (1 pair)   | 117.00 |
| 654.0021 | — | plastic wall mounting brackets           |                     |     |     | (set of 4) | 63.00  |

\* Enclosures which accept 654.0085 hinge kit

**COMBI Junction boxes**
**IP66/67**

Wiska COMBI junction boxes provide ultimate protection from environmental conditions in a compact, very attractive format, suitable for extreme outdoor installations.

- Weather proof, ultraviolet resistant, shatterproof, impact resistant, flame retardant and halogen free

| type | cable entry |      | thread Ø | description | colour | dimensions (mm) |     |     | price |
|------|-------------|------|----------|-------------|--------|-----------------|-----|-----|-------|
|      | sides       | rear |          |             |        | (H)             | (W) | (D) |       |

**COMBI 308** IP66/67 (*captive - quick release lid screws*)

|          |   |   |     |                           |       |    |    |    |                        |
|----------|---|---|-----|---------------------------|-------|----|----|----|------------------------|
| 10060400 | 8 | — | M20 | weatherproof junction box | grey  | 85 | 85 | 51 | see Cat L for pricing. |
| 10060581 | 8 | — | M20 | weatherproof junction box | black | 85 | 85 | 51 |                        |

## Insulated enclosures IP65/66/67

### A - Motor control & drives

### Plastic enclosures

**Lovato M** series enclosures are high quality, extremely robust housings ideally suited to indoor or outdoor installations, offering IP65 protection for internally mounted components.

- Protection degree: IP65
- Operating temperature: -25...+60°C
- Material: Made of UV protected polycarbonate
- Colour: Black base and RAL7035 (light grey) cover

| type | IP rating | cable entry | description | dimensions (mm)<br>(H) (W) (D) |  |  | price |
|------|-----------|-------------|-------------|--------------------------------|--|--|-------|
|------|-----------|-------------|-------------|--------------------------------|--|--|-------|

#### M1 and M2 series - Plastic housings IP65 (light grey)

Slim, deep housings designed for compact but tall components such as contactors, timers, voltage, liquid level and phase failure relays etc. required to be housed in a protective enclosure without occupying much space.

- External mounting holes
- Incorporated earth terminal
- DIN-rail incorporated into internal base of enclosure for mounting electrical components
- Two M20 knock-outs on top and bottom of enclosure (to accommodate gland for cable entry)

|            |      |     |                            |     |     |     |  |
|------------|------|-----|----------------------------|-----|-----|-----|--|
| <b>M1N</b> | IP65 | M20 | slim polycarbonate housing | 202 | 88  | 135 |  |
| <b>M2N</b> | IP65 | M20 | slim polycarbonate housing | 234 | 110 | 149 |  |

#### M24 and M25 series - Plastic housings IP65 (light grey)

Robust, heavy duty enclosures for mounting a variety of electrical components.

- Incorporated earth terminal
- Mounting holes within the enclosure (outside the sealing gasket)
- Supplied complete with internal metal chassis plate (156 x 148 mm)
- Moulded (alpha and numeric) grid on internal door for ease of mounting control devices
- Two M25/M32 knock-outs on top and bottom of enclosure (to accommodate gland for cable entry)

|             |      |        |                               |     |     |     |  |
|-------------|------|--------|-------------------------------|-----|-----|-----|--|
| <b>M24N</b> | IP65 | M25/32 | shallow polycarbonate housing | 210 | 175 | 99  |  |
| <b>M25N</b> | IP65 | M25/32 | deep polycarbonate housing    | 210 | 175 | 165 |  |

#### Accessories (spare chassis)

|             |         |                              |                     |  |  |  |  |
|-------------|---------|------------------------------|---------------------|--|--|--|--|
| <b>MX31</b> | chassis | metal chassis/mounting plate | for M25N enclosures |  |  |  |  |
|-------------|---------|------------------------------|---------------------|--|--|--|--|

#### M3 series - Plastic housings IP65 (light grey)

Robust, heavy duty enclosure with high impact resistance and incorporated hinge facility for mounting a variety of electrical components.

- Material: ABS plastic material
- Mounting holes within the enclosure (outside the sealing gasket)
- Internal ribbing in base for mounting components - DIN-rail etc.
- Plain base (no knockouts) for easy configuration of cable entry/exits
- Incorporated hinge facility (180° full opening) lid can be removed if required
- Moulded (alpha - numeric) grid on internal door for easy alignment of control devices

|             |         |                              |                                   |     |     |     |  |
|-------------|---------|------------------------------|-----------------------------------|-----|-----|-----|--|
| <b>M3N</b>  | IP65    | —                            | ABS housing without chassis plate | 280 | 220 | 170 |  |
| <b>MX30</b> | chassis | metal chassis/mounting plate | for M3N enclosures                |     |     |     |  |

#### Metallic enclosures (empty housings) IP66, IP67 (without any holes)

- The thickness of the enclosure is suitable for drilling
- Suitable for pushbuttons, selector switches and pilot lights
- Material: Aluminium alloy
- Colour: Light grey (base and cover)
- Protection: IEC/EN: IP66 and IP67  
UL: Nema 4X
- Earth connection: On base and cover
- Ambient conditions: -25...+70°C
- Compliant: IEC/EN/BS 60947-5-1, cULus

| type            | cover | description                        | (H) | (W) | (D) | price           |
|-----------------|-------|------------------------------------|-----|-----|-----|-----------------|
| <b>LPZ M1E8</b> | grey  | empty aluminium alloy housing only | 80  | 80  | 73  | <b>676.00</b>   |
| <b>LPZ M2E8</b> | grey  | empty aluminium alloy housing only | 130 | 80  | 73  | <b>842.00</b>   |
| <b>LPZ M3E8</b> | grey  | empty aluminium alloy housing only | 170 | 80  | 73  | <b>1 010.00</b> |
| <b>LPZ M5E8</b> | grey  | empty aluminium alloy housing only | 160 | 160 | 90  | <b>1 830.00</b> |
| <b>LPZ M6E8</b> | grey  | empty aluminium alloy housing only | 170 | 190 | 90  | <b>2 000.00</b> |
| <b>LPZ M7E8</b> | grey  | empty aluminium alloy housing only | 190 | 250 | 90  | <b>2 380.00</b> |

## Surface &amp; flush-mount distribution boards IP30/41

## Enclosures / Distribution boards

| type | no. of ways | IP rating | description | dimensions (mm)<br>(H) (W) (D) |  |  | price |
|------|-------------|-----------|-------------|--------------------------------|--|--|-------|
|------|-------------|-----------|-------------|--------------------------------|--|--|-------|

## Mini gamma series - Surface shrouds 40A IP30

- Incorporated DIN profile and labelling facility
- Hinged transparent doors available (*IP40 with door*)
- Lead sealable housing

|               |        |      |                             |     |     |    |               |
|---------------|--------|------|-----------------------------|-----|-----|----|---------------|
| <b>GD102B</b> | 2-way  | IP30 | surface mounting MCB shroud | 160 | 55  | 82 | <b>86.00</b>  |
| <b>GD104B</b> | 4 way  | IP30 | surface mounting MCB shroud | 180 | 110 | 82 | <b>117.00</b> |
| <b>GD106B</b> | 6 way  | IP30 | surface mounting MCB shroud | 180 | 146 | 82 | <b>136.00</b> |
| <b>GD110B</b> | 10 way | IP30 | surface mounting MCB shroud | 180 | 218 | 82 | <b>284.00</b> |

## Accessories for above GD series boards

|               |      |   |                                                 |     |        |               |
|---------------|------|---|-------------------------------------------------|-----|--------|---------------|
| <b>GP102T</b> | door | — | transparent ( <i>horizontally</i> ) hinged door | for | GD102B | <b>153.00</b> |
| <b>GP104T</b> | door | — | transparent ( <i>horizontally</i> ) hinged door | for | GD104B | <b>174.00</b> |
| <b>GP106T</b> | door | — | transparent ( <i>horizontally</i> ) hinged door | for | GD106B | <b>183.00</b> |
| <b>GP110T</b> | door | — | transparent ( <i>horizontally</i> ) hinged door | for | GD110B | <b>204.00</b> |

|               |         |   |                                       |     |        |              |
|---------------|---------|---|---------------------------------------|-----|--------|--------------|
| <b>GZ104S</b> | support | — | clip-in support for terminals GZ04E/N | for | GD104B | <b>30.60</b> |
| <b>GZ106S</b> | support | — | clip-in support for terminals GZ04E/N | for | GD106B | <b>30.60</b> |
| <b>GZ110S</b> | support | — | clip-in support for terminals GZ04E/N | for | GD110B | <b>41.00</b> |

|              |        |          |                              |                             |              |
|--------------|--------|----------|------------------------------|-----------------------------|--------------|
| <b>GZ04E</b> | 4 way  | terminal | insulated "earth" terminal   | (clips onto above supports) | <b>56.00</b> |
| <b>GZ04N</b> | 4 way  | terminal | insulated "neutral" terminal | (clips onto above supports) | <b>56.00</b> |
| <b>JP002</b> | 24 way | blanking | blanking strip               | (breakable sections)        | <b>78.00</b> |

## Golf series - Surface and flush-mount distribution boards 63A

- Transparent door 180° opening (*hinged left or right*) / key-lock facility
- Internal cable tie fixing points / cable can be run behind breakers / optional cable retainer clips
- Supplied with earth / neutral terminals
- Colour: RAL9010 (*white*) / glow wire test to 650°C to UNE 60595-2-1

Golf VS series - Surface mounting enclosures - IP40 (*with door*)

- Pre-cut profiles for cable, conduit, trunking entry
- Enclosures can be joined together (*horizontally or vertically*)

|                |             |      |                                     |     |     |    |                 |
|----------------|-------------|------|-------------------------------------|-----|-----|----|-----------------|
| <b>VS104TJ</b> | 4 (1 x 4)   | IP40 | surface mounting distribution board | 184 | 138 | 99 | <b>392.00</b>   |
| <b>VS108TJ</b> | 8 (1 x 8)   | IP40 | surface mounting distribution board | 184 | 210 | 99 | <b>440.00</b>   |
| <b>VS112TJ</b> | 12 (1 x 12) | IP40 | surface mounting distribution board | 252 | 282 | 99 | <b>600.00</b>   |
| <b>VS212TJ</b> | 24 (2 x 12) | IP40 | surface mounting distribution board | 377 | 282 | 99 | <b>820.00</b>   |
| <b>VS118TJ</b> | 18 (1 x 18) | IP40 | surface mounting distribution board | 252 | 390 | 99 | <b>690.00</b>   |
| <b>VS218TJ</b> | 36 (2 x 18) | IP40 | surface mounting distribution board | 377 | 390 | 99 | <b>1 090.00</b> |
| <b>VS318TJ</b> | 54 (3 x 18) | IP40 | surface mounting distribution board | 500 | 390 | 99 | <b>1 230.00</b> |

Golf VF series - Flush mounting enclosures - IP40 (*with door*)

- 72 mm installation depth, can be mounted into "hollow wall" with optional brackets

|                |             |      |                                   |     |     |    |                 |
|----------------|-------------|------|-----------------------------------|-----|-----|----|-----------------|
| <b>VF108TJ</b> | 8 (1 x 8)   | IP40 | flush mounting distribution board | 225 | 275 | 98 | <b>501.00</b>   |
| <b>VF112TJ</b> | 12 (1 x 12) | IP40 | flush mounting distribution board | 293 | 352 | 98 | <b>593.00</b>   |
| <b>VF212TJ</b> | 24 (2 x 12) | IP40 | flush mounting distribution board | 418 | 352 | 98 | <b>795.00</b>   |
| <b>VF118TJ</b> | 18 (1 x 18) | IP40 | flush mounting distribution board | 293 | 460 | 98 | <b>687.00</b>   |
| <b>VF218TJ</b> | 36 (2 x 18) | IP40 | flush mounting distribution board | 418 | 460 | 98 | <b>1 040.00</b> |
| <b>VF318TJ</b> | 54 (3 x 18) | IP40 | flush mounting distribution board | 543 | 460 | 98 | <b>1 220.00</b> |

## Accessories for Golf series (VS/VF) enclosures

|               |          |                                                    |  |  |  |        |               |
|---------------|----------|----------------------------------------------------|--|--|--|--------|---------------|
| <b>VZ696N</b> | bracket  | hollow wall mounting brackets for flush enclosures |  |  |  | (4pcs) | <b>283.00</b> |
| <b>VZ699N</b> | retainer | cable retaining guides for all enclosures          |  |  |  | (4pcs) | <b>270.00</b> |
| <b>VZ786N</b> | bracket  | brick wall fixing brackets for flush enclosures    |  |  |  | (4pcs) | <b>104.00</b> |
| <b>VZ787N</b> | label    | spare transparent label holder for all enclosures  |  |  |  | (5pcs) | <b>283.00</b> |
| <b>VZ794N</b> | key      | key lock facility for all enclosures               |  |  |  | (2pcs) | <b>489.00</b> |

Volta series - "Exclusive" flush mounting boards IP41 (*class II*)

- Metallic front door and frame (*reversible - opening from left or right*)
- Integrated mini spirit level (*installation aid for alignment*)
- 30% more wiring space available
- Supplied with earth / neutral terminals
- Colour: RAL 9010 (*white*)
- IEC 60439-3

|               |             |                                            |     |     |    |                 |
|---------------|-------------|--------------------------------------------|-----|-----|----|-----------------|
| <b>VU12NE</b> | 12 (1 x 12) | flush mount "exclusive" distribution board | 356 | 348 | 96 | <b>1 220.00</b> |
| <b>VU24NE</b> | 24 (2 x 12) | flush mount "exclusive" distribution board | 505 | 348 | 96 | <b>1 420.00</b> |
| <b>VU36NE</b> | 36 (3 x 12) | flush mount "exclusive" distribution board | 630 | 348 | 96 | <b>1 730.00</b> |
| <b>VU48NE</b> | 48 (4 x 12) | flush mount "exclusive" distribution board | 755 | 348 | 96 | <b>1 930.00</b> |

## Surface-mount distribution boards IP55/65



VE106L

(Enclosure only)



VE212SN

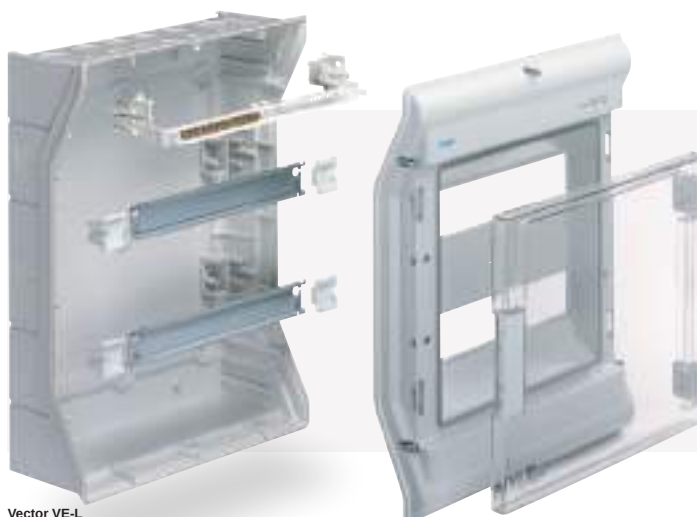


### Vector series - Surface mount enclosures class II

- Compliant: IEC 61439-3
- Colour: RAL 7035 (light grey)
- Adjustable DIN-rail depth (to fit products of different depth)
- Transparent hinged cover (2 - 10 way) or door (12 - 54 way)
- Rear adjustment screws for mounting on uneven / irregular wall surfaces (up to 3 mm)
- Premarked knock-outs for cable glands **M20, M25, M32, M40, M50** (size dependant)

| type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | number<br>of ways |                                                                                                  | dimensions (mm)<br>(H) (W) (D) |     |     | price    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------|--------------------------------|-----|-----|----------|
| Vector VE-L - Surface-mount distribution boards 63A                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |                                                                                                  | IP55                           |     |     |          |
| <ul style="list-style-type: none"><li>• IP rating: IP55</li><li>• Supplied with Earth/Neutral terminals</li><li>• 2 lateral knockouts for cable entry or coupling pieces</li><li>• Glow wire test to IEC 60695-2-10 and IEC 60 695-2-11: 750°C</li></ul>                                                                                                                                                                                                                                                                     |                   |                                                                                                  |                                |     |     |          |
| VE103L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3 (1 x 3)         | surface mounting distribution board                                                              | 175                            | 111 | 93  | 516.00   |
| VE106L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6 (1 x 6)         | surface mounting distribution board                                                              | 190                            | 165 | 113 | 595.00   |
| VE110L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10 (1 x 10)       | surface mounting distribution board                                                              | 210                            | 237 | 114 | 671.00   |
| VE112L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 12 (1 x12)        | surface mounting distribution board                                                              | 302                            | 310 | 151 | 945.00   |
| VE212L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 24 (2 x 12)       | surface mounting distribution board                                                              | 427                            | 310 | 151 | 1 550.00 |
| VE118L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 18 (1 x 18)       | surface mounting distribution board                                                              | 302                            | 418 | 151 | 1 380.00 |
| VE218L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36 (2 x 18)       | surface mounting distribution board                                                              | 452                            | 418 | 151 | 2 130.00 |
| VE318L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 54 (3 x 18)       | surface mounting distribution board                                                              | 602                            | 418 | 151 | 2 700.00 |
| Vector VE-SN - Surface-mount distribution boards 63A (for outdoor use)                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |                                                                                                  | IP65                           |     |     |          |
| UV stabilised and IP65 surface mounting enclosure range designed specifically for outdoor use and <b>photovoltaic</b> applications.                                                                                                                                                                                                                                                                                                                                                                                          |                   |                                                                                                  |                                |     |     |          |
| <ul style="list-style-type: none"><li>• Protection: IP65</li><li>• Material: Polycarbonate</li><li>• Dimensional stability up to 100°C, resistant to frost down to -25°C</li><li>• Plain base (<i>no knockouts</i>) for easy configuration of cable entry/exits</li><li>• Earth and neutral terminals to be ordered separately (<i>see below</i>)</li><li>• Glow wire test to IEC 60695-2-10 and IEC 60 695-2-11: 750°C</li><li>• Resistant to ultraviolet radiation, immersion in water in accordance with UL746C</li></ul> |                   |                                                                                                  |                                |     |     |          |
| VE112SN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 12 (1 x 12)       | surface mounting distribution board                                                              | 302                            | 310 | 151 | 930.00   |
| VE212SN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 24 (2 x 12)       | surface mounting distribution board                                                              | 427                            | 310 | 151 | 1 540.00 |
| VE312SN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 36 (3 x 12)       | surface mounting distribution board                                                              | 552                            | 318 | 151 | 2 390.00 |
| Earth/Neutral terminal set for above VE...SN boards                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |                                                                                                  |                                |     |     |          |
| VZ522                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | E/Neutral         | terminals each with: (1 x 25 mm <sup>2</sup> + 5 x 16 mm <sup>2</sup> + 7 x 10 mm <sup>2</sup> ) |                                |     |     | 259.00   |

## Vector waterproof boards



Vector VE-L

### Technical characteristics

- **Excellent waterproofing: IP55 / 65** - IK 07 and IK 08
- Plastic boxes, class II
- Capacity: 1 to 3 rows, 3 to 54 modules
- Depth **adjustable DIN-rail**
- 2 side knockouts (VE-L)

## Surface &amp; flush-mount distribution boards IP41

**Vega D series - Surface and flush mounting distribution boards IP41 (with optional door fitted)**

Vega D enclosures are suitable for installations in residential and commercial buildings for supplies up to 160A. Delivered in a ready-to-mount configuration. All enclosures have 24 module rows.

**General features:**

- Material: Metallic enclosure
- Colour: RAL 9010 (white)
- Integrated quick connect earth terminals
- Removable front frame for optimal access to internal installed devices
- Doors sheet metal plain or with transparent window (to be ordered separately)
- Protection class: IP30/IPK07 (without door) - IP41/IPK08 (with door) - class II totally insulated



Scan to watch video

| type | number of modular ways | description | dimensions (mm) |     |     | price |
|------|------------------------|-------------|-----------------|-----|-----|-------|
|      |                        |             | (H)             | (W) | (D) |       |

**Surface-mounting boards 48 to 168 way**

- Removable top and bottom plates for easier cable entry

|               |     |          |                                     |      |     |     |                  |
|---------------|-----|----------|-------------------------------------|------|-----|-----|------------------|
| <b>FD22DN</b> | 48  | (2 x 24) | surface mounting distribution board | 450  | 550 | 193 | <b>6 010.00</b>  |
| <b>FD32DN</b> | 72  | (3 x 24) | surface mounting distribution board | 600  | 550 | 193 | <b>6 700.00</b>  |
| <b>FD42DN</b> | 96  | (4 x 24) | surface mounting distribution board | 750  | 550 | 193 | <b>7 760.00</b>  |
| <b>FD52DN</b> | 120 | (5 x 24) | surface mounting distribution board | 900  | 550 | 193 | <b>8 250.00</b>  |
| <b>FD62DN</b> | 144 | (6 x 24) | surface mounting distribution board | 1050 | 550 | 193 | <b>9 780.00</b>  |
| <b>FD72DN</b> | 168 | (7 x 24) | surface mounting distribution board | 1200 | 550 | 193 | <b>10 500.00</b> |

**Partially equipped surface enclosures**

|                |     |          |                                     |      |     |     |                 |
|----------------|-----|----------|-------------------------------------|------|-----|-----|-----------------|
| <b>FD42AN*</b> | 48  | (2 x 24) | surface mounting distribution board | 750  | 550 | 193 | <b>6 700.00</b> |
| <b>FD52AN*</b> | 72  | (3 x 24) | surface mounting distribution board | 900  | 550 | 193 | <b>7 610.00</b> |
| <b>FD62AN*</b> | 96  | (4 x 24) | surface mounting distribution board | 1050 | 550 | 193 | <b>8 060.00</b> |
| <b>FD72AN*</b> | 120 | (5 x 24) | surface mounting distribution board | 1200 | 550 | 193 | <b>8 520.00</b> |

**Flush-mounting boards 48 to 168 way**
**General features:**

- Metallic flush mounting tray (depth 110 mm with insulated cable entries top and bottom)
- Removable chassis with uprights accommodating modular devices
- Metallic (easily removable) finishing frame DN=40 / AN=72 mm depth

|               |     |          |                                   |      |     |     |                  |
|---------------|-----|----------|-----------------------------------|------|-----|-----|------------------|
| <b>FU22DN</b> | 48  | (2 x 24) | flush mounting distribution board | 537  | 550 | 150 | <b>6 910.00</b>  |
| <b>FU32DN</b> | 72  | (3 x 24) | flush mounting distribution board | 687  | 550 | 150 | <b>8 440.00</b>  |
| <b>FU42DN</b> | 96  | (4 x 24) | flush mounting distribution board | 837  | 550 | 150 | <b>9 110.00</b>  |
| <b>FU52DN</b> | 120 | (5 x 24) | flush mounting distribution board | 987  | 550 | 150 | <b>9 860.00</b>  |
| <b>FU62DN</b> | 144 | (6 x 24) | flush mounting distribution board | 1137 | 550 | 150 | <b>10 400.00</b> |
| <b>FU72DN</b> | 168 | (7 x 24) | flush mounting distribution board | 1287 | 550 | 150 | <b>12 000.00</b> |

**Partially equipped flush enclosures**

|                |     |          |                                   |      |     |     |                  |
|----------------|-----|----------|-----------------------------------|------|-----|-----|------------------|
| <b>FU42AN*</b> | 48  | (2 x 24) | flush mounting distribution board | 837  | 550 | 182 | <b>8 440.00</b>  |
| <b>FU52AN*</b> | 72  | (3 x 24) | flush mounting distribution board | 987  | 550 | 182 | <b>9 550.00</b>  |
| <b>FU62AN*</b> | 96  | (4 x 24) | flush mounting distribution board | 1137 | 550 | 182 | <b>10 100.00</b> |
| <b>FU72AN*</b> | 120 | (5 x 24) | flush mounting distribution board | 1287 | 550 | 182 | <b>10 600.00</b> |

\* Supplied without top two rows, to be completed with internal modules of choice (below) to accept main switch MCCB (up to 160A) or two rows modular devices or chassis plate

**Doors for Vega D enclosures (sheet metal)**
**Plain doors**

(left or right hinged 135° opening)

|               |       |                                 |         |      |     |   |                 |
|---------------|-------|---------------------------------|---------|------|-----|---|-----------------|
| <b>FD22PN</b> | plain | sheet metal door for enclosures | FD/FU22 | 350  | 500 | — | <b>1 200.00</b> |
| <b>FD32PN</b> | plain | sheet metal door for enclosures | FD/FU32 | 500  | 500 | — | <b>1 400.00</b> |
| <b>FD42PN</b> | plain | sheet metal door for enclosures | FD/FU42 | 650  | 500 | — | <b>1 600.00</b> |
| <b>FD52PN</b> | plain | sheet metal door for enclosures | FD/FU52 | 800  | 500 | — | <b>1 700.00</b> |
| <b>FD62PN</b> | plain | sheet metal door for enclosures | FD/FU62 | 950  | 500 | — | <b>1 800.00</b> |
| <b>FD72PN</b> | plain | sheet metal door for enclosures | FD/FU72 | 1100 | 500 | — | <b>2 000.00</b> |

**Transparent doors**

(left or right hinged 135° opening)

|               |             |                                 |         |      |     |   |                 |
|---------------|-------------|---------------------------------|---------|------|-----|---|-----------------|
| <b>FD22TN</b> | transparent | sheet metal door for enclosures | FD/FU22 | 350  | 500 | — | <b>1 800.00</b> |
| <b>FD32TN</b> | transparent | sheet metal door for enclosures | FD/FU32 | 500  | 500 | — | <b>1 900.00</b> |
| <b>FD42TN</b> | transparent | sheet metal door for enclosures | FD/FU42 | 650  | 500 | — | <b>2 200.00</b> |
| <b>FD52TN</b> | transparent | sheet metal door for enclosures | FD/FU52 | 800  | 500 | — | <b>2 400.00</b> |
| <b>FD62TN</b> | transparent | sheet metal door for enclosures | FD/FU62 | 950  | 500 | — | <b>2 600.00</b> |
| <b>FD72TN</b> | transparent | sheet metal door for enclosures | FD/FU72 | 1100 | 500 | — | <b>2 900.00</b> |

**Internal modules (to fill upper 2 spaces on FD/FU42,52,62,72AN enclosures)**

|               |              |                                                   |     |   |   |                 |
|---------------|--------------|---------------------------------------------------|-----|---|---|-----------------|
| <b>FD01A1</b> | 1 row 24 way | standard chassis with modular DIN cover           | 150 | — | — | <b>725.00</b>   |
| <b>FD01A2</b> | 1 row adj.   | DIN-rail kit for terminals with plain front cover | 150 | — | — | <b>975.00</b>   |
| <b>FD01K1</b> | 1 row        | for 1x horizontally mounted 160A MCCB             | 150 | — | — | <b>1 710.00</b> |

See page H-6 for Vega D internal modules and accessories



## Floor-standing distribution board system



### Quadro 5 series - Floor standing distribution board system (IP55)

- Nominal insulation voltage:  $U_i = 690 \text{ V}$
- Type tested nominal current: 630A, 35 kA
- Colour: RAL9010, (plinth RAL7042)
- Class of protection: IP55, IK10 (with door) to EN 60530

| type | description | for enclosure | dimensions (mm) |     |     | price |
|------|-------------|---------------|-----------------|-----|-----|-------|
|      |             |               | (H)             | (W) | (D) |       |

#### Enclosures - Height: 1260 mm - Surface wall mount or (floor mount with optional plinth)

- Main frame with back plate, removable top and bottom plates and 4 lugs for wall mounting
- 1200 mm Internal height - accepts: - 8 rows (150 mm high) or 6 rows (200 mm high) 24 way

|              |                                                |            |      |     |     |                  |
|--------------|------------------------------------------------|------------|------|-----|-----|------------------|
| <b>FM205</b> | upright basic frame <b>without plinth</b>      | (standard) | 1260 | 700 | 260 | <b>10 200.00</b> |
| <b>FM405</b> | pair of side plates (L and R) for enclosure    | FM205      | 1260 | —   | 260 | <b>2 010.00</b>  |
| <b>FM450</b> | plinth (optional) for floor mounting enclosure | FM205      | 150  | 700 | 260 | <b>3 380.00</b>  |
| <b>FM535</b> | plain sheet metal hinged door for              | FM205      | 1260 | 685 | —   | <b>3 910.00</b>  |
| <b>FM545</b> | transparent sheet metal hinged door for        | FM205      | 1260 | 685 | —   | <b>5 180.00</b>  |

#### Enclosures - Height: 2010 mm (floor standing with back plate, removable top plate and plinth)

- Main frame with back plate, removable top plate and plinth with 2 wall securing lugs
- 1800 mm Internal height - accepts: - 12 rows (150 mm high) or 9 rows (200 mm high) 24 way

|              |                                                       |            |      |     |     |                  |
|--------------|-------------------------------------------------------|------------|------|-----|-----|------------------|
| <b>FM109</b> | upright basic frame <b>with back plate and plinth</b> | (narrow)   | 2010 | 450 | 260 | <b>15 500.00</b> |
| <b>FM209</b> | upright basic frame <b>with back plate and plinth</b> | (standard) | 2010 | 700 | 260 | <b>16 100.00</b> |
| <b>FM409</b> | pair of side plates (L and R) for enclosure           | FM1/209    | 2010 | —   | 260 | <b>2 800.00</b>  |
| <b>FM519</b> | plain sheet metal hinged door (narrow)                | FM109      | 2010 | 435 | —   | <b>4 970.00</b>  |
| <b>FM539</b> | plain sheet metal hinged door (standard)              | FM209      | 2010 | 685 | —   | <b>6 340.00</b>  |
| <b>FM549</b> | transparent sheet metal hinged door (standard)        | FM209      | 2010 | 685 | —   | <b>8 080.00</b>  |

#### Equipment mounting kits - For Quadro 5 system

- Comprises: mounting rail + accessories and front covers for modular MCB and MCCB

##### For 700 mm wide (standard) panels

|                |                                               |            |         |     |     |   |                 |
|----------------|-----------------------------------------------|------------|---------|-----|-----|---|-----------------|
| <b>UC201</b>   | mounting kit for MCB (150 mm)                 | 24 modules | FM205/9 | 150 | 600 | — | <b>1 040.00</b> |
| <b>UC205</b>   | mounting kit for MCB (200 mm)                 | 24 modules | FM205/9 | 200 | 600 | — | <b>1 140.00</b> |
| <b>UC011H</b>  | mounting kit for MCCB                         | x160       | FM205/9 | 300 | 600 | — | <b>1 560.00</b> |
| <b>UC021H</b>  | mounting kit for MCCB                         | x250       | FM205/9 | 300 | 600 | — | <b>2 640.00</b> |
| <b>UC464P</b>  | kit for mounting 2 x MCCB                     | P630       | FM205/9 | 300 | 600 | — | <b>2 170.00</b> |
| <b>UC464X</b>  | kit for mounting 2 x MCCB                     | x630       | FM205/9 | 300 | 600 | — | <b>2 570.00</b> |
| <b>UC233EM</b> | kit with knock-outs for 3 x 96 mm instruments |            | FM205/9 | 200 | 600 | — | <b>991.00</b>   |

##### For 450 mm wide (narrow) panels

|               |                           |            |       |     |     |   |                 |
|---------------|---------------------------|------------|-------|-----|-----|---|-----------------|
| <b>UC200</b>  | mounting kit for MCB      | 10 modules | FM109 | 150 | 350 | — | <b>701.00</b>   |
| <b>UC010H</b> | mounting kit for MCCB     | x160       | FM109 | 300 | 350 | — | <b>1 300.00</b> |
| <b>UC020H</b> | mounting kit for MCCB     | x250       | FM109 | 300 | 350 | — | <b>2 200.00</b> |
| <b>UC434P</b> | kit for mounting 1 x MCCB | P630       | 250A  | 300 | 350 | — | <b>1 770.00</b> |
| <b>UC434X</b> | kit for mounting 1 x MCCB | x630       | 250A  | 300 | 350 | — | <b>1 960.00</b> |

#### Accessories for Quadro 5 enclosures - (other common accessories see page H-11)

|              |                                                                    |         |     |     |        |                 |
|--------------|--------------------------------------------------------------------|---------|-----|-----|--------|-----------------|
| <b>FM484</b> | chassis plates for standard enclosures                             | FM205/9 | 300 | 500 | —      | <b>688.00</b>   |
| <b>FM486</b> | chassis plates for standard enclosures                             | FM205/9 | 600 | 500 | —      | <b>1 150.00</b> |
| <b>FM635</b> | horizontal joining kit (side by side mounting of frames)           |         |     |     |        | <b>952.00</b>   |
| <b>FM653</b> | screw-in lifting ring set for Quadro 5 enclosures                  |         |     |     | (2pcs) | <b>265.00</b>   |
| <b>UC915</b> | clip-in cable trunking support (60 mm vertical / 40 mm horizontal) |         |     |     |        | <b>76.00</b>    |
| <b>JP024</b> | blanking strip (24 modules wide) with breakable sections           |         |     |     |        | <b>82.00</b>    |
| <b>FZ517</b> | replacement square 6 x 6 mm key lock insert                        |         |     |     |        | <b>86.00</b>    |

#### (continued...) Vega D Internal modules

| type          | number of modular ways | description                                   | dimensions (mm) |     |     | price           |
|---------------|------------------------|-----------------------------------------------|-----------------|-----|-----|-----------------|
|               |                        |                                               | (H)             | (W) | (D) |                 |
| <b>FD02A1</b> | 2 rows (24 way)        | standard chassis with modular DIN cover       | 300             | —   | —   | <b>1 320.00</b> |
| <b>FD02K1</b> | 2 row                  | for 1 x vertically mounted 160A MCCB          | 300             | —   | —   | <b>1 410.00</b> |
| <b>FD02C2</b> | 2 row                  | perforated chassis plate + plain front cover  | 300             | —   | —   | <b>2 030.00</b> |
| <b>FD00C2</b> | 2 row                  | plain flat surface front cover for enclosures | 300             | —   | —   | <b>639.00</b>   |
| <b>FD00M2</b> | 2 row                  | chassis plate direct fixing on vert. supports | 300             | —   | —   | <b>307.00</b>   |

#### Accessories for Vega D enclosures

|               |                |                                              |  |  |               |               |
|---------------|----------------|----------------------------------------------|--|--|---------------|---------------|
| <b>JP002</b>  | blanking strip | 24 way blanking strip (breakable sections)   |  |  | (ea)          | <b>78.00</b>  |
| <b>FD00A1</b> | label holder   | 24 way holder and paper strip for marking    |  |  | (10 per pack) | <b>512.00</b> |
| <b>FD00F1</b> | bracket        | for horizontal side by side mounting         |  |  | (ea)          | <b>603.00</b> |
| <b>FD00F2</b> | brackets       | external wall mount for surface enclosures   |  |  | (ea)          | <b>506.00</b> |
| <b>FZ794</b>  | pocket plan    | self adhesive flexible A4 format pocket plan |  |  | (10 per pack) | <b>477.00</b> |
| <b>FD00S1</b> | key lock       | key lock to replace original door latch      |  |  | (ea)          | <b>413.00</b> |

## Modular floor-standing distribution board system

- Quick and easy to assemble
- IP55 (with door)
- Access from all sides
- Sheet metal class I

| Dimension (mm) |       |       | ①                          | ②          | ③                 | ④          | ⑤          |
|----------------|-------|-------|----------------------------|------------|-------------------|------------|------------|
| height         | width | depth | Top and bottom frame (set) | 4 uprights | plinth (H=100 mm) | back panel | side panel |
| 1900           | 450   | 400   | FN018EW                    | FN046EW    | FN438E            | FN216E     | FN356E     |
| 1900           | 450   | 600   | FN020EW                    | FN046EW    | FN440E            | FN216E     | FN366E     |
| 1900           | 450   | 800   | FN022EW                    | FN046EW    | FN442E            | FN216E     | FN376E     |
| 1900           | 700   | 400   | FN021EW                    | FN046EW    | FN441E            | FN276E     | FN356E     |
| 1900           | 700   | 600   | FN029EW                    | FN046EW    | FN451E            | FN276E     | FN366E     |
| 1900           | 700   | 800   | FN013EW                    | FN046EW    | FN433E            | FN276E     | FN376E     |
| 1900           | 900   | 400   | FN023EW                    | FN046EW    | FN443E            | FN296E     | FN356E     |
| 1900           | 900   | 600   | FN031EW                    | FN046EW    | FN453E            | FN296E     | FN366E     |
| 1900           | 900   | 800   | FN017EW                    | FN046EW    | FN437E            | FN296E     | FN376E     |
| 1900           | 1000  | 400   | FN024EW                    | FN046EW    | FN444E            | FN246E     | FN356E     |
| 1900           | 1000  | 600   | FN032EW                    | FN046EW    | FN454E            | FN246E     | FN366E     |
| 1900           | 1000  | 800   | FN037EW                    | FN046EW    | FN459E            | FN246E     | FN376E     |

Introducing more possibilities  
**quadro evo**  
The New Hager Main Distribution Board

Basic component requirement to assemble a single floor standing cabinet:

• Top and bottom frames • Four uprights • Plinth • Side panels • Back panel • Top and bottom plates • Door



| type                                                                                            | description                                                                    | dimensions (mm) |      |     | price    |
|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------|------|-----|----------|
|                                                                                                 |                                                                                | (H)             | (W)  | (D) |          |
| <b>Top and bottom frame set - Connects to structural uprights FN046EW ①</b>                     |                                                                                |                 |      |     |          |
| FN018EW                                                                                         | top and bottom frame set (connects to uprights)                                | —               | 450  | 400 | 5 230.00 |
| FN020EW                                                                                         | top and bottom frame set (connects to uprights)                                | —               | 450  | 600 | 5 670.00 |
| FN022EW                                                                                         | top and bottom frame set (connects to uprights)                                | —               | 450  | 800 | 6 060.00 |
| FN021EW                                                                                         | top and bottom frame set (connects to uprights)                                | —               | 700  | 400 | 6 190.00 |
| FN029EW                                                                                         | top and bottom frame set (connects to uprights)                                | —               | 700  | 600 | 6 410.00 |
| FN013EW                                                                                         | top and bottom frame set (connects to uprights)                                | —               | 700  | 800 | 6 870.00 |
| FN023EW                                                                                         | top and bottom frame set (connects to uprights)                                | —               | 900  | 400 | 6 750.00 |
| FN031EW                                                                                         | top and bottom frame set (connects to uprights)                                | —               | 900  | 600 | 7 620.00 |
| FN017EW                                                                                         | top and bottom frame set (connects to uprights)                                | —               | 900  | 800 | 8 520.00 |
| FN024EW                                                                                         | top and bottom frame set (connects to uprights)                                | —               | 1000 | 400 | 7 560.00 |
| FN032EW                                                                                         | top and bottom frame set (connects to uprights)                                | —               | 1000 | 600 | 8 390.00 |
| FN037EW                                                                                         | top and bottom frame set (connects to uprights)                                | —               | 1000 | 800 | 9 230.00 |
| <b>Four structural uprights - Connects to top and bottom frames with single captive screw ②</b> |                                                                                |                 |      |     |          |
| FN046EW                                                                                         | set of 4 uprights (connects to top and bottom frame)                           | 1900            | —    | —   | 6 950.00 |
| <b>Plinth - Removable front and rear inspection plates ③</b>                                    |                                                                                |                 |      |     |          |
| FN438E                                                                                          | plinth with inspection plates (H) 100 mm                                       | 100             | 450  | 400 | 2 420.00 |
| FN440E                                                                                          | plinth with inspection plates (H) 100 mm                                       | 100             | 450  | 600 | 2 660.00 |
| FN442E                                                                                          | plinth with inspection plates (H) 100 mm                                       | 100             | 450  | 800 | 2 820.00 |
| FN441E                                                                                          | plinth with inspection plates (H) 100 mm                                       | 100             | 700  | 400 | 2 700.00 |
| FN451E                                                                                          | plinth with inspection plates (H) 100 mm                                       | 100             | 700  | 600 | 2 790.00 |
| FN433E                                                                                          | plinth with inspection plates (H) 100 mm                                       | 100             | 700  | 800 | 3 010.00 |
| FN443E                                                                                          | plinth with inspection plates (H) 100 mm                                       | 100             | 900  | 400 | 2 840.00 |
| FN453E                                                                                          | plinth with inspection plates (H) 100 mm                                       | 100             | 900  | 600 | 2 940.00 |
| FN437E                                                                                          | plinth with inspection plates (H) 100 mm                                       | 100             | 900  | 800 | 3 150.00 |
| FN444E                                                                                          | plinth with inspection plates (H) 100 mm                                       | 100             | 1000 | 400 | 2 820.00 |
| FN454E                                                                                          | plinth with inspection plates (H) 100 mm                                       | 100             | 1000 | 600 | 2 920.00 |
| FN459E                                                                                          | plinth with inspection plates (H) 100 mm                                       | 100             | 1000 | 800 | 3 130.00 |
| FN430E                                                                                          | Plinth connection kit to increase overall height by adding two or more plinths |                 |      |     | 111.00   |
| <b>Back panels - Removable ④</b>                                                                |                                                                                |                 |      |     |          |
| FN216E                                                                                          | rear panel for Quadro enclosures (removable)                                   | 1900            | 450  | —   | 2 200.00 |
| FN276E                                                                                          | rear panel for Quadro enclosures (removable)                                   | 1900            | 700  | —   | 3 240.00 |
| FN296E                                                                                          | rear panel for Quadro enclosures (removable)                                   | 1900            | 900  | —   | 4 210.00 |
| FN246E                                                                                          | rear panel for Quadro enclosures (removable)                                   | 1900            | 1000 | —   | 4 730.00 |
| FN276EDW                                                                                        | ventilated rear panel for enclosures (louvered)                                | 1900            | 700  | —   | 5 510.00 |
| FN296EDW                                                                                        | ventilated rear panel for enclosures (louvered)                                | 1900            | 900  | —   | 7 220.00 |
| FN246EDW                                                                                        | ventilated rear panel for enclosures (louvered)                                | 1900            | 1000 | —   | 8 320.00 |
| <b>Side panels (supplied individually) ⑤</b>                                                    |                                                                                |                 |      |     |          |
| FN356E                                                                                          | side panel for Quadro enclosures (removable)                                   | 1900            | —    | 400 | 2 090.00 |
| FN366E                                                                                          | side panel for Quadro enclosures (removable)                                   | 1900            | —    | 600 | 2 590.00 |
| FN376E                                                                                          | side panel for Quadro enclosures (removable)                                   | 1900            | —    | 800 | 3 990.00 |

Above ZAR prices do not include VAT. E&OE

## Modular floor-standing distribution board system

| 6                                                                                 |             | 7                                                                                 |             | 8                                                                                 |  | 9                                                                                   | 10                                                                                  |
|-----------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |             |  |             |  |  |  |  |
| top and bottom cable entry plates                                                 |             | doors                                                                             |             | chassis plate                                                                     |  | functional uprights                                                                 |                                                                                     |
| plain plate                                                                       | cable entry | plain                                                                             | transparent | full height                                                                       |  |                                                                                     |                                                                                     |
| FN078E                                                                            | FN4540DREM  | FN546E                                                                            | FN510E      | FN726E                                                                            |  | UC1800FB                                                                            |                                                                                     |
| FN080E                                                                            | FN4560DREM  | FN546E                                                                            | FN510E      | FN726E                                                                            |  | UC1800FB                                                                            |                                                                                     |
| FN082E                                                                            | FN4580DREM  | FN546E                                                                            | FN510E      | FN726E                                                                            |  | UC1800FB                                                                            |                                                                                     |
| FN081E                                                                            | FN7040DREM  | FN506E                                                                            | FN516E      | FN736E                                                                            |  | UC1800FB                                                                            |                                                                                     |
| FN089E                                                                            | FN7060DREM  | FN506E                                                                            | FN516E      | FN736E                                                                            |  | UC1800FB                                                                            |                                                                                     |
| FN073E                                                                            | FN7080DREM  | FN506E                                                                            | FN516E      | FN736E                                                                            |  | UC1800FB                                                                            |                                                                                     |
| FN083E                                                                            | FN9040DREM  | FN526E                                                                            | FN536E      | FN746E                                                                            |  | UC1800FB                                                                            |                                                                                     |
| FN091E                                                                            | FN9060DREM  | FN526E                                                                            | FN536E      | FN746E                                                                            |  | UC1800FB                                                                            |                                                                                     |
| FN077E                                                                            | FN9080DREM  | FN526E                                                                            | FN536E      | FN746E                                                                            |  | UC1800FB                                                                            |                                                                                     |
| FN084E                                                                            | FN10040DREM | —                                                                                 | —           | —                                                                                 |  | UC1800FB                                                                            |                                                                                     |
| FN092E                                                                            | FN10060DREM | —                                                                                 | —           | —                                                                                 |  | UC1800FB                                                                            |                                                                                     |
| FN121E                                                                            | FN10080DREM | —                                                                                 | —           | —                                                                                 |  | UC1800FB                                                                            |                                                                                     |

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for How To  
Tutorial Videos



FN089E



FN4540DREM



FN506E



FN516E

| type                                                       | description                                        | dimensions (mm) |            |                                 |      |       | price    |
|------------------------------------------------------------|----------------------------------------------------|-----------------|------------|---------------------------------|------|-------|----------|
|                                                            |                                                    | (H)             | (W)        | (D)                             |      |       |          |
| Top and bottom cover plates (plain) 6                      |                                                    |                 |            |                                 |      |       |          |
| FN078E                                                     | plain cover plate                                  | top (or) bottom | (plain)    | —                               | 450  | 400   | 1 020.00 |
| FN080E                                                     | plain cover plate                                  | top (or) bottom | (plain)    | —                               | 450  | 600   | 1 230.00 |
| FN082E                                                     | plain cover plate                                  | top (or) bottom | (plain)    | —                               | 450  | 800   | 1 430.00 |
| FN081E                                                     | plain cover plate                                  | top (or) bottom | (plain)    | —                               | 700  | 400   | 1 280.00 |
| FN089E                                                     | plain cover plate                                  | top (or) bottom | (plain)    | —                               | 700  | 600   | 1 540.00 |
| FN073E                                                     | plain cover plate                                  | top (or) bottom | (plain)    | —                               | 700  | 800   | 2 160.00 |
| FN083E                                                     | plain cover plate                                  | top (or) bottom | (plain)    | —                               | 900  | 400   | 1 350.00 |
| FN091E                                                     | plain cover plate                                  | top (or) bottom | (plain)    | —                               | 900  | 600   | 1 760.00 |
| FN077E                                                     | plain cover plate                                  | top (or) bottom | (plain)    | —                               | 900  | 800   | 2 200.00 |
| FN084E                                                     | plain cover plate                                  | top (or) bottom | (plain)    | —                               | 1000 | 400   | 1 500.00 |
| FN092E                                                     | plain cover plate                                  | top (or) bottom | (plain)    | —                               | 1000 | 600   | 1 790.00 |
| FN121E                                                     | plain cover plate                                  | top (or) bottom | (plain)    | —                               | 1000 | 800   | 2 830.00 |
| Top and bottom cable entry plates (frame + precut plate) 7 |                                                    |                 |            |                                 |      |       |          |
| FN4540DREM                                                 | cable entry plate                                  | top (or) bottom | (precut)   | —                               | 450  | 400   | 1 469.00 |
| FN4560DREM                                                 | cable entry plate                                  | top (or) bottom | (precut)   | —                               | 450  | 600   | 1 964.00 |
| FN4580DREM                                                 | cable entry plate                                  | top (or) bottom | (precut)   | —                               | 450  | 800   | 2 207.00 |
| FN7040DREM                                                 | cable entry plate                                  | top (or) bottom | (precut)   | —                               | 700  | 400   | 2 025.00 |
| FN7060DREM                                                 | cable entry plate                                  | top (or) bottom | (precut)   | —                               | 700  | 600   | 2 569.00 |
| FN7080DREM                                                 | cable entry plate                                  | top (or) bottom | (precut)   | —                               | 700  | 800   | 3 130.00 |
| FN9040DREM                                                 | cable entry plate                                  | top (or) bottom | (precut)   | —                               | 900  | 400   | 2 460.00 |
| FN9060DREM                                                 | cable entry plate                                  | top (or) bottom | (precut)   | —                               | 900  | 600   | 3 130.00 |
| FN9080DREM                                                 | cable entry plate                                  | top (or) bottom | (precut)   | —                               | 900  | 800   | 3 740.00 |
| FN10040DREM                                                | cable entry plate                                  | top (or) bottom | (precut)   | —                               | 1000 | 400   | 3 010.00 |
| FN10060DREM                                                | cable entry plate                                  | top (or) bottom | (precut)   | —                               | 1000 | 600   | 3 550.00 |
| FN10080DREM                                                | cable entry plate                                  | top (or) bottom | (precut)   | —                               | 1000 | 800   | 4 350.00 |
| Cable entry plates - for (above) open cover plates         |                                                    |                 |            |                                 |      |       |          |
| FZ404                                                      | cable entry plain plastic plate without precuts    |                 |            |                                 |      | plain | 263.00   |
| FZ422                                                      | cable entry plain steel plate without precuts      |                 |            |                                 |      | plain | 448.00   |
| FZ402AL                                                    | aluminium cable entry plate                        |                 |            |                                 |      | plain | 435.00   |
| FZ402                                                      | cable entry plate with flexible rubber pins        |                 |            | various entry diameters         |      |       | 283.00   |
| FZ406M                                                     | cable entry plate with precuts for cable glands    |                 |            | 13x M20 + 2x M25/20             |      |       | 262.00   |
| FZ407M                                                     | cable entry plate with precuts for cable glands    |                 |            | 6x M25 + 2x M32/25              |      |       | 263.00   |
| FZ408M                                                     | cable entry plate with precuts for cable glands    |                 |            | 2x M25/32 + 1x M50/63           |      |       | 263.00   |
| FZ403WP                                                    | top ventilating cap for enclosures                 |                 |            | (mounts onto open cover plates) |      |       | 743.00   |
| Doors - Supplied with hinges and rotary locks 8            |                                                    |                 |            |                                 |      |       |          |
| FN510E                                                     | door for Quadro system                             | (reversible)    | (t/parent) | 1900                            | 450  | —     | 4 900.00 |
| FN516E                                                     | door for Quadro system                             | (reversible)    | (t/parent) | 1900                            | 700  | —     | 7 090.00 |
| FN536E                                                     | door for Quadro system                             | (reversible)    | (t/parent) | 1900                            | 900  | —     | 8 190.00 |
| FN546E                                                     | door for Quadro system                             | (reversible)    | (plain)    | 1900                            | 450  | —     | 4 110.00 |
| FN506E                                                     | door for Quadro system                             | (reversible)    | (plain)    | 1900                            | 700  | —     | 5 150.00 |
| FN526E                                                     | door for Quadro system                             | (reversible)    | (plain)    | 1900                            | 900  | —     | 6 100.00 |
| FN952                                                      | door stopper unit (to latch door in open position) |                 |            | —                               | —    | —     | 840.00   |

Above ZAR prices do not include VAT. E&OE

H-8

## Modular floor-standing distribution board system


**Equipment mounting kits (for Quadro Evo systems)**

- Comprises: mounting accessories and front covers for MCB, MCCB and ACB

| type                                                                          | description                                                         |                                   |             | for components | dimensions (mm)<br>(H) (W) |     | price    |
|-------------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------|-------------|----------------|----------------------------|-----|----------|
| Functional uprights - Mandatory for mounting equipment kits in enclosures 10  |                                                                     |                                   |             |                |                            |     |          |
| UC1800FB                                                                      | functional uprights                                                 | (to support mounting accessories) |             |                | 1900                       | —   | 6 200.00 |
| UC1600FB                                                                      | functional uprights                                                 | (space for busbar in top section) |             |                | 1600                       | —   | 6 260.00 |
| Mounting kits for circuit breakers - Vertical mounting (terminals top/bottom) |                                                                     |                                   |             |                |                            |     |          |
| For 450 (350) mm wide panels                                                  |                                                                     |                                   |             |                |                            |     |          |
| UC1530MDN                                                                     | kit for mounting MCB                                                |                                   |             | 10 modules     | 150                        | 350 | 1 440.00 |
| UC2035AMD                                                                     | terminal kit with mounting kit, DIN-rail and front cover            |                                   |             |                | 200                        | 350 | 1 090.00 |
| UC133X                                                                        | kit for mounting 2 x MCCB                                           | vertical                          | x160        |                | 300                        | 350 | 1 920.00 |
| UC233XH                                                                       | kit for mounting 1 x MCCB                                           | vertical                          | x250        |                | 300                        | 350 | 2 000.00 |
| UC434PN                                                                       | kit for mounting 1 x MCCB                                           | vertical                          | P630        |                | 400                        | 350 | 2 180.00 |
| UC434XN                                                                       | kit for mounting 1 x MCCB                                           | vertical                          | x630        |                | 400                        | 350 | 2 170.00 |
| For 700 (600) mm wide panels                                                  |                                                                     |                                   |             |                |                            |     |          |
| UC1560MDN                                                                     | kit for mounting MCB                                                |                                   |             | 24 modules     | 150                        | 600 | 1 470.00 |
| UC2060MDN                                                                     | kit for mounting MCB                                                |                                   |             | 24 modules     | 200                        | 600 | 1 500.00 |
| UC2060AMD                                                                     | terminal kit with mounting kit, DIN-rail and front covercover plate |                                   |             |                | 200                        | 600 | 1 160.00 |
| UC163X                                                                        | kit for mounting 4 x MCCB                                           | vertical                          | x160        |                | 300                        | 600 | 2 100.00 |
| UC263XH                                                                       | kit for mounting 2 x MCCB                                           | vertical                          | x250        |                | 300                        | 600 | 1 740.00 |
| UC464PN                                                                       | kit for mounting 2 x MCCB                                           | vertical                          | P630        |                | 400                        | 600 | 2 950.00 |
| UC464XN                                                                       | kit for mounting 2 x MCCB                                           | vertical                          | x630        |                | 400                        | 600 | 3 110.00 |
| UC566H                                                                        | kit for mounting 1 x MCCB                                           | vertical                          | h1000       |                | 600                        | 600 | 3 950.00 |
| UC666H                                                                        | kit for mounting 1 x MCCB                                           | vertical                          | h1600       |                | 600                        | 600 | 4 650.00 |
| Horizontal mounting (terminals left and right)                                |                                                                     |                                   |             |                |                            |     |          |
| UC262XHR                                                                      | kit for mounting 1 x MCCB                                           | horizontal                        | x250        |                | 200                        | 600 | 2 080.00 |
| UC463XRN                                                                      | kit for mounting 1 x MCCB                                           | horizontal                        | x630        |                | 300                        | 600 | 2 560.00 |
| UC463PRN                                                                      | kit for mounting 1 x MCCB                                           | horizontal                        | P630        |                | 400                        | 600 | 2 500.00 |
| UC564H                                                                        | kit for mounting 1 x MCCB                                           | horizontal                        | h1000       |                | 400                        | 600 | 3 750.00 |
| Mounting kits for ACB - Vertically mounted (terminals top/bottom)             |                                                                     |                                   |             |                |                            |     |          |
| UC6040HW1                                                                     | kit for mounting HW1 ACB                                            | fixed-D/out                       | 1600A       |                | 400                        | 600 | 2 760.00 |
| UC6060HW2                                                                     | kit for mounting HW2 ACB                                            | fixed-D/out                       | 2500A       |                | 600                        | 600 | 4 440.00 |
| Other mounting kits - For 700mm wide cabinets                                 |                                                                     |                                   |             |                |                            |     |          |
| UC301                                                                         | kit with knock-outs for up to                                       | 4 x 72 mm²                        | instruments |                | 200                        | 600 | 667.00   |
| UC233EM                                                                       | kit with knock-outs for up to                                       | 3 x 96 mm²                        | instruments |                | 200                        | 600 | 991.00   |
| For 900 (800) mm wide panels                                                  |                                                                     |                                   |             |                |                            |     |          |
| UC1580MDN                                                                     | kit for mounting MCB                                                |                                   |             | 35 modules     | 150                        | 800 | 1 840.00 |
| UC2080MDN                                                                     | kit for mounting MCB                                                |                                   |             | 35 modules     | 200                        | 800 | 1 900.00 |
| UC2080AMD                                                                     | terminal kit with mounting kit, DIN-rail and front cover            |                                   |             |                | 200                        | 800 | 1 190.00 |
| UC183X                                                                        | kit for mounting 6 x MCCB                                           | vertical                          | x160        |                | 300                        | 800 | 1 700.00 |
| UC283XH                                                                       | kit for mounting 3 x MCCB                                           | vertical                          | x250        |                | 300                        | 800 | 1 980.00 |
| UC484XDN                                                                      | kit for mounting 3 x MCCB                                           | vertical                          | x630        |                | 400                        | 800 | 3 570.00 |
| UC484PDN                                                                      | kit for mounting 3 x MCCB                                           | vertical                          | P630        |                | 400                        | 800 | 3 540.00 |
| UC586H                                                                        | kit for mounting 1 x MCCB                                           | vertical                          | h1000       |                | 600                        | 800 | 4 120.00 |
| UC686HD                                                                       | kit for mounting 2 x MCCB                                           | vertical                          | h1600       |                | 600                        | 800 | 3 190.00 |
| Horizontal mounting MCCB (terminals left and right)                           |                                                                     |                                   |             |                |                            |     |          |
| UC282XHR                                                                      | kit for mounting 1 x MCCB                                           | horizontal                        | x250        |                | 200                        | 800 | 2 390.00 |
| UC483XRN                                                                      | kit for mounting 1 x MCCB                                           | horizontal                        | x630        |                | 300                        | 800 | 2 880.00 |
| UC483PRN                                                                      | kit for mounting 1 x MCCB                                           | horizontal                        | P630        |                | 400                        | 800 | 2 940.00 |
| UC584H                                                                        | kit for mounting 1 x MCCB                                           | horizontal                        | h1000       |                | 400                        | 800 | 4 360.00 |
| Mounting kits for ACB                                                         |                                                                     |                                   |             |                |                            |     |          |
| UC8040HW1                                                                     | kit for mounting HW1 ACB                                            | fixed-D/out                       | 1600A       |                | 400                        | 800 | 3 160.00 |
| UC8060HW2                                                                     | kit for mounting HW2 ACB                                            | fixed-D/out                       | 2500A       |                | 600                        | 800 | 4 870.00 |
| UC8060FWH4                                                                    | kit for mounting HW4 ACB                                            | fixed                             | 4000A       |                | 600                        | 800 | 6 440.00 |
| UC8060DHW4                                                                    | kit for mounting HW4 ACB                                            | D/out                             | 4000A       |                | 600                        | 800 | 6 440.00 |
| Other mounting kits - For 900 mm wide cabinets                                |                                                                     |                                   |             |                |                            |     |          |
| UC243EM                                                                       | kit with knock-outs for up to                                       | 3 x 96 mm²                        | instruments |                | 200                        | 800 | 1 280.00 |



UC1530MD



UC263XH



UC1560MD



UC243EM

## Modular floor-standing distribution board system



FN6030PDW



FN6060PDW



UC232



FN266E

FN206E

| type                                                                                               | description                                              | dimensions (mm)       |      |     | price |          |
|----------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------|------|-----|-------|----------|
|                                                                                                    |                                                          | (H)                   | (W)  | (D) |       |          |
| Partial door system - Replaces classical door system with partial doors                            |                                                          |                       |      |     |       |          |
| Vertical upright - requires front top and bottom finishing panels (below)                          |                                                          |                       |      |     |       |          |
| FN1900PD                                                                                           | vertical upright to attach partial doors onto            | (ea)                  | 1900 | —   | —     | 1 340.00 |
| FN60TBPW                                                                                           | top and bottom finishing panels for partial doors        | (set 2 pcs)           | —    | 600 | —     | 1 490.00 |
| FN80TBPW                                                                                           | top and bottom finishing panels for partial doors        | (set 2 pcs)           | —    | 800 | —     | 1 880.00 |
| Partial doors for cabinets                                                                         |                                                          |                       |      |     |       |          |
| FN6020MDW                                                                                          | partial door with cut-out for modular devices (MCB's)    | (1 lock)              | 200  | 600 | —     | 2 640.00 |
| FN6020PDW                                                                                          | partial plain blank doors only                           | (hinged) (1 lock)     | 200  | 600 | —     | 2 610.00 |
| FN6030PDW                                                                                          | partial plain blank doors only                           | (hinged) (1 lock)     | 300  | 600 | —     | 3 040.00 |
| FN6040PDW                                                                                          | partial plain blank doors only                           | (hinged) (2 locks)    | 400  | 600 | —     | 2 500.00 |
| FN6060PDW                                                                                          | partial plain blank doors only                           | (hinged) (2 locks)    | 600  | 600 | —     | 2 640.00 |
| FN8020MDW                                                                                          | partial door with cut-out for modular devices (MCB's)    | (1 lock)              | 200  | 800 | —     | 2 840.00 |
| FN8020PDW                                                                                          | partial plain blank doors only                           | (hinged) (1 lock)     | 200  | 800 | —     | 2 060.00 |
| FN8030PDW                                                                                          | partial plain blank doors only                           | (hinged) (1 lock)     | 300  | 800 | —     | 2 400.00 |
| FN8040PDW                                                                                          | partial plain blank doors only                           | (hinged) (2 locks)    | 400  | 800 | —     | 2 610.00 |
| FN8060PDW                                                                                          | partial plain blank doors only                           | (hinged) (2 locks)    | 600  | 800 | —     | 2 870.00 |
| Blanking plates - For Quadro systems - screws onto functional uprights                             |                                                          |                       |      |     |       |          |
| UC221                                                                                              | front blanking cover plate                               | (screw on) (plain)    | 50   | 350 | —     | 474.00   |
| UC222                                                                                              | front blanking cover plate                               | (screw on) (plain)    | 150  | 350 | —     | 411.00   |
| UC223                                                                                              | front blanking cover plate                               | (screw on) (plain)    | 200  | 350 | —     | 520.00   |
| UC224                                                                                              | front blanking cover plate                               | (screw on) (plain)    | 300  | 350 | —     | 591.00   |
| UC225                                                                                              | front blanking cover plate                               | (screw on) (plain)    | 400  | 350 | —     | 828.00   |
| UC226                                                                                              | front blanking cover plate                               | (screw on) (plain)    | 600  | 350 | —     | 794.00   |
| UC231                                                                                              | front blanking cover plate                               | (screw on) (plain)    | 50   | 600 | —     | 540.00   |
| UC239                                                                                              | front blanking cover plate                               | (screw on) (plain)    | 100  | 600 | —     | 583.00   |
| UC232                                                                                              | front blanking cover plate                               | (screw on) (plain)    | 150  | 600 | —     | 643.00   |
| UC233                                                                                              | front blanking cover plate                               | (screw on) (plain)    | 200  | 600 | —     | 885.00   |
| UC234                                                                                              | front blanking cover plate                               | (screw on) (plain)    | 300  | 600 | —     | 655.00   |
| UC235                                                                                              | front blanking cover plate                               | (screw on) (plain)    | 400  | 600 | —     | 920.00   |
| UC236                                                                                              | front blanking cover plate                               | (screw on) (plain)    | 600  | 600 | —     | 1 170.00 |
| UC6020PL                                                                                           | ventilating front blanking cover                         | (screw on) (louvered) | 200  | 600 | —     | 1 020.00 |
| UC241                                                                                              | front blanking cover plate                               | (screw on) (plain)    | 50   | 800 | —     | 587.00   |
| UC249                                                                                              | front blanking cover plate                               | (screw on) (plain)    | 100  | 800 | —     | 631.00   |
| UC242                                                                                              | front blanking cover plate                               | (screw on) (plain)    | 150  | 800 | —     | 670.00   |
| UC243                                                                                              | front blanking cover plate                               | (screw on) (plain)    | 200  | 800 | —     | 774.00   |
| UC244                                                                                              | front blanking cover plate                               | (screw on) (plain)    | 300  | 800 | —     | 901.00   |
| UC245                                                                                              | front blanking cover plate                               | (screw on) (plain)    | 400  | 800 | —     | 1 180.00 |
| UC246                                                                                              | front blanking cover plate                               | (screw on) (plain)    | 600  | 800 | —     | 1 450.00 |
| UC8020PL                                                                                           | ventilating front blanking cover                         | (screw on) (louvered) | 200  | 800 | —     | 1 090.00 |
| Vertical dividing uprights - (supplied individually)                                               |                                                          |                       |      |     |       |          |
| - To create a cable compartment (W) 200/300 mm within (W) 900/1000 mm cabinets                     |                                                          |                       |      |     |       |          |
| FN286EW                                                                                            | vertical dividing upright for cable compartment          | (each)                | 1900 | —   | —     | 4 740.00 |
| Cable compartment plate - (supplied individually) fixing with screws                               |                                                          |                       |      |     |       |          |
| FN266E                                                                                             | cable compartment blanking plate                         | (front or back mount) | —    | 200 | —     | 2 050.00 |
| FN206E                                                                                             | cable compartment blanking plate                         | (front or back mount) | —    | 300 | —     | 1 840.00 |
| Horizontal dividing support - to support functional uprights when creating a cable compartment     |                                                          |                       |      |     |       |          |
| FX289                                                                                              | horizontal dividing side support for functional uprights |                       | —    | —   | 400   | 629.00   |
| FX291                                                                                              | horizontal dividing side support for functional uprights |                       | —    | —   | 600   | 797.00   |
| FX292                                                                                              | horizontal dividing side support for functional uprights |                       | —    | —   | 800   | 982.00   |
| Partial front functional uprights - can be used when no functional uprights for equipment are used |                                                          |                       |      |     |       |          |
| UC200F                                                                                             | partial front functional uprights for cabinet            |                       | 200  | —   | —     | 755.00   |
| UC300F                                                                                             | partial front functional uprights for cabinet            |                       | 300  | —   | —     | 874.00   |
| UC400F                                                                                             | partial front functional uprights for cabinet            |                       | 400  | —   | —     | 1 020.00 |
| UC600F                                                                                             | partial front functional uprights for cabinet            |                       | 600  | —   | —     | 1 200.00 |
| UC1800F                                                                                            | full length functional front uprights for cabinet        |                       | 1800 | —   | —     | 2 360.00 |
| Partial rear functional uprights - to accommodate rear mounted chassis and support brackets        |                                                          |                       |      |     |       |          |
| UC400BU                                                                                            | partial rear functional uprights                         |                       | 400  | —   | —     | 2 440.00 |
| UC600BU                                                                                            | partial rear functional uprights                         |                       | 600  | —   | —     | 2 370.00 |
| UC800BU                                                                                            | partial rear functional uprights                         |                       | 800  | —   | —     | 2 510.00 |
| UC1000BU                                                                                           | partial rear functional uprights                         |                       | 1000 | —   | —     | 3 400.00 |

## Modular floor-standing distribution board system



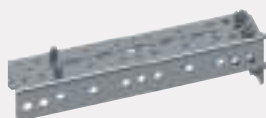
FN950



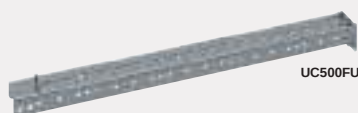
FN406E



Finishing frame



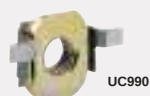
UC200FU



UC500FU



UC000FU



UC990



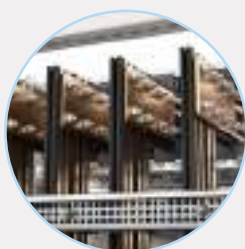
FZ767



UC268

| type                                                                                                                                                                                                | description                                                               | dimensions (mm)               |                 |     | price    |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------|-----------------|-----|----------|----------|
|                                                                                                                                                                                                     |                                                                           | (H)                           | (W)             | (D) |          |          |
| Coupling kits - To combine cabinets (of the same height) depth or laterally                                                                                                                         |                                                                           |                               |                 |     |          |          |
| FN950                                                                                                                                                                                               | lateral coupling to combine two cabinets horizontally (for greater width) |                               |                 |     | 425.00   |          |
| FN942E                                                                                                                                                                                              | cover plate for gap between adjoining enclosures                          | widthwise                     | —               | —   | 400      | 292.00   |
| FN943E                                                                                                                                                                                              | cover plate for gap between adjoining enclosures                          | widthwise                     | —               | —   | 600      | 315.00   |
| FN944E                                                                                                                                                                                              | cover plate for gap between adjoining enclosures                          | widthwise                     | —               | —   | 800      | 359.00   |
| FN954E                                                                                                                                                                                              | depth coupling to combine two cabinets back to back (for greater depth)   |                               |                 |     | 1 320.00 |          |
| FN946E                                                                                                                                                                                              | cover plate for gap between adjoining enclosures                          | depthwise                     | —               | 450 | —        | 375.00   |
| FN947E                                                                                                                                                                                              | cover plate for gap between adjoining enclosures                          | depthwise                     | —               | 700 | —        | 396.00   |
| FN948E                                                                                                                                                                                              | cover plate for gap between adjoining enclosures                          | depthwise                     | —               | 900 | —        | 445.00   |
| FN949E                                                                                                                                                                                              | cover plate for gap between adjoining enclosures                          | depthwise                     | —               | 901 | —        | 710.00   |
| FN951                                                                                                                                                                                               | adhesive gasket/seal tape for enclosures                                  | (10 x 6 mm)                   | (length 10 met) |     |          | 298.00   |
| Finishing frame - Required when no door is fitted to enclosure                                                                                                                                      |                                                                           |                               |                 |     |          |          |
| FN1970AF                                                                                                                                                                                            | finishing frame when no door is used on enclosures                        | 1900                          | 700             | —   |          | 2 270.00 |
| FN1990AF                                                                                                                                                                                            | finishing frame when no door is used on enclosures                        | 1900                          | 900             | —   |          | 2 570.00 |
| Chassis plates - UC partial plates can be increased in height by adding 1 or more kits 9                                                                                                            |                                                                           |                               |                 |     |          |          |
| UC2060MP                                                                                                                                                                                            | partial chassis mounting plate                                            | (without cover plate)         | 200             | 600 | —        | 900.00   |
| UC2080MP                                                                                                                                                                                            | partial chassis mounting plate                                            | (without cover plate)         | 200             | 800 | —        | 976.00   |
| FN726E                                                                                                                                                                                              | chassis plate for Quadro cabinets                                         | (full height)                 | 1900            | 450 | —        | 2 320.00 |
| FN736E                                                                                                                                                                                              | chassis plate for Quadro cabinets                                         | (full height)                 | 1900            | 700 | —        | 3 210.00 |
| FN746E                                                                                                                                                                                              | chassis plate for Quadro cabinets                                         | (full height)                 | 1900            | 900 | —        | 4 710.00 |
| Perforated mounting accessories                                                                                                                                                                     |                                                                           |                               |                 |     |          |          |
| All accessories are designed for adapting enclosures to accommodate a range of components. Perforations in profiles, brackets, rails are in steps 25 mm apart and accommodate cage nuts M6 (UC990). |                                                                           |                               |                 |     |          |          |
| Side brackets - mounts horizontally between side structural uprights                                                                                                                                |                                                                           |                               |                 |     |          |          |
| UC300FU                                                                                                                                                                                             | side mount horizontal support bracket                                     | (perforated)                  | 50              | —   | 400      | 603.00   |
| UC500FU                                                                                                                                                                                             | side mount horizontal support bracket                                     | (perforated)                  | 50              | —   | 600      | 543.00   |
| UC700FU                                                                                                                                                                                             | side mount horizontal support bracket                                     | (perforated)                  | 50              | —   | 800      | 637.00   |
| Back brackets - mounts horizontally between back structural uprights or mounted side brackets                                                                                                       |                                                                           |                               |                 |     |          |          |
| UC350FU                                                                                                                                                                                             | back bracket mounts bet. rear funct. uprights or side brackets            |                               | —               | 450 | —        | 488.00   |
| UC600FU                                                                                                                                                                                             | back bracket mounts bet. rear funct. uprights or side brackets            |                               | —               | 700 | —        | 747.00   |
| UC800FU                                                                                                                                                                                             | back bracket mounts bet. rear funct. uprights or side brackets            |                               | —               | 900 | —        | 959.00   |
| UC200FU                                                                                                                                                                                             | back bracket for accessories                                              | for cable compartment section | —               | 200 | —        | 529.00   |
| UC300FU                                                                                                                                                                                             | back bracket for accessories                                              | for cable compartment section | —               | 300 | —        | 603.00   |
| UC000FU                                                                                                                                                                                             | support mounting bracket for perforated profiles (one per profile)        |                               |                 |     |          | 285.00   |
| FZ767                                                                                                                                                                                               | lifting rings for enclosures                                              | Quadro evo (2 pcs)            | —               | —   | —        | 248.00   |
| FZ760E                                                                                                                                                                                              | lifting rings for double enclosures                                       | Quadro evo (2 pcs)            | —               | —   | —        | 403.00   |
| UC990                                                                                                                                                                                               | clip-in M6 cage nut for perforations in profiles                          | (pack of 25)                  | —               | —   | —        | 826.00   |
| UC991                                                                                                                                                                                               | M6 x 12 mm screw for above cage nuts                                      | (pack of 25)                  | —               | —   | —        | 597.00   |
| Accessories for Quadro systems                                                                                                                                                                      |                                                                           |                               |                 |     |          |          |
| UC268                                                                                                                                                                                               | hinge kit for modular covers (hinge from left or right)                   | (2 pcs)                       | —               | —   | —        | 159.00   |
| UC000HTS                                                                                                                                                                                            | clip-in cable trunking support                                            | (6pcs)                        | —               | —   | —        | 857.00   |
| UZ25V1*                                                                                                                                                                                             | rail mount cable clamp/guide                                              | (20pcs)                       | —               | —   | —        | 163.00   |
| UZ01V1                                                                                                                                                                                              | cable guide to fix cable clamp to DIN-rail                                | (20pcs)                       | —               | —   | —        | 851.00   |
| JP024                                                                                                                                                                                               | blanking strip (24 - way) with breakable sections                         |                               | —               | —   | —        | 82.00    |
| JE003                                                                                                                                                                                               | spare transparent self-adhesive marking strips (24 - way)                 |                               | —               | —   | —        | 55.00    |
| * Requires UZ01V1 - cable guide to fix cable clamp UZ25V1 to DIN-rail                                                                                                                               |                                                                           |                               |                 |     |          |          |
| FZ795D                                                                                                                                                                                              | metal self-adhesive document holder (A4) for inside doors                 |                               | —               | —   | —        | 576.00   |
| FZ794                                                                                                                                                                                               | plastic self-adhesive transparent pocket (A4) for inside doors            |                               | —               | —   | —        | 477.00   |
| Key locks                                                                                                                                                                                           |                                                                           |                               |                 |     |          |          |
| • To replace existing lock cylinders with other key types                                                                                                                                           |                                                                           |                               |                 |     |          |          |
| FZ537                                                                                                                                                                                               | spare swing lever handle for enclosures without lock                      |                               |                 |     |          | 832.00   |
| FZ506                                                                                                                                                                                               | key lock replacement cylinder                                             | with key                      | 1242E           | —   | —        | 518.00   |
| FZ519                                                                                                                                                                                               | key lock replacement cylinder                                             | with key                      | 405             | —   | —        | 519.00   |
| FZ520                                                                                                                                                                                               | key lock replacement cylinder                                             | with key                      | 455             | —   | —        | 503.00   |
| FZ850                                                                                                                                                                                               | panel key triangle/square/double bit                                      |                               |                 |     |          | 62.00    |
| FL74Z                                                                                                                                                                                               | lock replacement insert                                                   | triangle                      | 8 mm            | —   | —        | 270.00   |
| FL76Z                                                                                                                                                                                               | lock replacement insert                                                   | square                        | 8x8 mm          | —   | —        | 303.00   |
| FZ516                                                                                                                                                                                               | lock replacement insert                                                   | square                        | 6x6 mm          | —   | —        | 91.00    |

## Modular floor-standing distribution board system



UC918125AL



UC918160AL



UC815



UC9840S



UC820



UC826

### Busbar supports for Quadro system

| type | current (A) | bar size (mm) width thick | no. pole | description | dimensions (mm) (H) (W) (D) | price |
|------|-------------|---------------------------|----------|-------------|-----------------------------|-------|
|------|-------------|---------------------------|----------|-------------|-----------------------------|-------|

#### Universal edgewise mounting busbar support - Variable phase-spacing 75/100/150mm

- Supplied with 8 x insulated supports (for top and bottom of busbars) with fixing screws
- For vertical or horizontal busbar mounting within Quadro enclosures
- Suitable for aluminium profile bars or flat copper bars
- Requires support brackets (below) to complete system

|          |       |          |        |   |                         |          |          |
|----------|-------|----------|--------|---|-------------------------|----------|----------|
| UC825BB  | 1600A | 50...120 | 1 x 10 | 4 | edgewise busbar support | variable | 1 850.00 |
| UC8110BB | 2000A | 50...120 | 1 x 10 | 4 | edgewise busbar support | variable | 1 780.00 |
| UC8210BB | 2500A | 50...120 | 2 x 10 | 4 | edgewise busbar support | variable | 1 970.00 |
| UC8310BB | 4000A | 50...120 | 3 x 10 | 4 | edgewise busbar support | variable | 2 180.00 |

#### Busbar support profiles and mounting brackets - required to mount the above edgewise supports

- Delivered with 2 x perforated profiles, 2 x mounting brackets and 8 x screws

|         |                                 |                     |     |          |
|---------|---------------------------------|---------------------|-----|----------|
| UC300BB | support on Quadro structure kit | for enclosure depth | 400 | 900.00   |
| UC500BB | support on Quadro structure kit | for enclosure depth | 600 | 981.00   |
| UC700BB | support on Quadro structure kit | for enclosure depth | 800 | 1 220.00 |
| UC400BB | flying support profile kit      | for enclosure depth | 400 | 929.00   |
| UC600BB | flying support profile kit      | for enclosure depth | 600 | 1 170.00 |
| UC800BB | flying support profile kit      | for enclosure depth | 800 | 1 340.00 |

#### Lower vertical busbar holders - set of 4 holders to be mounted at the bottom of vertical bars

|         |                                                                           |          |          |
|---------|---------------------------------------------------------------------------|----------|----------|
| UC000BB | lower busbar support kit for vertically mounted bars (to prevent sliding) | variable | 1 120.00 |
|---------|---------------------------------------------------------------------------|----------|----------|

#### Aluminium profile busbars - Mounts into holders UC825BB

|            |       |     |      |                           |      |     |      |          |
|------------|-------|-----|------|---------------------------|------|-----|------|----------|
| UC91880AL  | 800A  | 50  | 18.5 | aluminium profile busbars | 1800 | 50  | 18.5 | 2 260.00 |
| UC918125AL | 1250A | 60  | 18.5 | aluminium profile busbars | 1800 | 60  | 18.5 | 3 570.00 |
| UC918160AL | 1600A | 100 | 18.5 | aluminium profile busbars | 1800 | 100 | 18.5 | 4 890.00 |

#### Copper connection plates for aluminium bars - to extend or join profile bars

|         |       |                                                 |     |     |   |          |
|---------|-------|-------------------------------------------------|-----|-----|---|----------|
| UC9800C | 800A  | connection plates for UC91880AL aluminium bars  | 110 | 50  | — | 3 630.00 |
| UC9125C | 1250A | connection plates for UC918125AL aluminium bars | 130 | 60  | — | 4 090.00 |
| UC9160C | 1600A | connection plates for UC918160AL aluminium bars | 210 | 100 | — | 8 690.00 |
| UC9800T | 800A  | deviation plates for UC91880AL aluminium bars   | 110 | 50  | — | 3 630.00 |
| UC9125T | 1250A | deviation plates for UC918125AL aluminium bars  | 130 | 60  | — | 4 360.00 |
| UC9160C | 1600A | deviation plates for UC918160AL aluminium bars  | 210 | 100 | — | 8 690.00 |

#### Screws for aluminium bars - steel class 8.8, supplied (screw + nut + washer)

|         |        |                               |                |    |    |   |          |
|---------|--------|-------------------------------|----------------|----|----|---|----------|
| UC9825S | screws | hammerhead zinc plated screws | M8x25 (50 pcs) | 25 | M8 | — | 1 940.00 |
| UC9840S | screws | hammerhead zinc plated screws | M8x25 (50 pcs) | 40 | M8 | — | 3 030.00 |

#### Flat copper bar supports (multi-pole)

##### Multi stage bar support - supplied individually with 6x M6 and 2 cagenuts

|       |                       |    |   |   |                            |     |    |     |          |
|-------|-----------------------|----|---|---|----------------------------|-----|----|-----|----------|
| UC815 | 250A                  | 20 | 5 | 4 | multi stage busbar support | 180 | 25 | 126 | 1 430.00 |
| UC816 | protective screen kit |    |   |   | for (above) UC815 support  | 620 | —  | —   | 2 850.00 |

##### Inclined busbar support - set of 2 with with all mounting accessories and terminals

|       |                       |         |      |   |                           |     |     |     |          |
|-------|-----------------------|---------|------|---|---------------------------|-----|-----|-----|----------|
| UC826 | 630A                  | 20...32 | 5/10 | 4 | inclined busbar support   | 245 | 54  | 114 | 2 380.00 |
| UC828 | protective screen kit |         |      |   | for (above) UC826 support | 990 | 212 | —   | 1 140.00 |

##### Flat busbars - supplied individually with mounting accessories

|       |                       |         |      |   |                           |     |     |    |          |
|-------|-----------------------|---------|------|---|---------------------------|-----|-----|----|----------|
| UC820 | 630A                  | 12...30 | 5/10 | 4 | inclined busbar support   | 242 | 22  | 42 | 794.00   |
| UC827 | protective screen kit |         |      |   | for (above) UC820 support | 990 | 294 | —  | 1 520.00 |

## hagercad: Layout software for distribution boards with 3D visualization

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05

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06

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for cabinet calculations

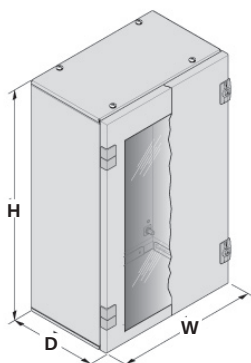
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## Sheet metal &amp; polyester enclosures IP65


**Orion + Enclosures (IP65) (sheet metal and polyester)**

Sheet steel or glass reinforced polyester - **Orion Plus** enclosures suited for the harshest conditions can be applied for wet and mechanical use. Even under chemical use, Orion Plus offers the ideal solution with glass reinforced polyester.

Flexibility is provided via mounting plate or DIN-rail (*in 2 different versions*) and thus offers the suitable interior equipment system - both for the application in automation and for classical current distribution.

- Colour: RAL 7035 (*light grey*)
- Mounting: Surface mounting
- Certification: CEI EN 60439-1
- Material: Sheet steel - class I or polyester - class II
- IP Rating: (IP65/IK10) protection, insulation class I (*powder-coated epoxy polyester*)

**General features:**

- Size and depth adapted according to your need
- Front door with foamed gasket opening 140°, hinged left or right
- Interior kits for conversion to distribution facility (*for mounting MCB and modular products*)
- Polyester enclosures for indoor and outdoor applications
- Sheet metal enclosures for indoor application

**Typical applications:**

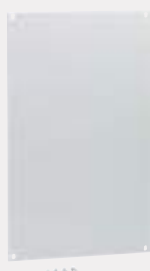
- Installation of automation products for the control of machines or small processes
- Installation of non modular products such as contactors, transformers, etc
- Cable termination and distribution



FL117A



FL110A+FL547A



FL404A

| type | protection | description | dimensions (mm) |     |     | price |
|------|------------|-------------|-----------------|-----|-----|-------|
|      |            |             | (H)             | (W) | (D) |       |

**Sheet metal enclosures 630A (surface mounting)**

- Colour: RAL 7035 (*light grey*)
- IP65 protection, insulation class I (*powder-coated epoxy polyester*)
- Full-sized top and bottom gland plates (*enclosures can be mounted on top of each other*)

|          |      |                                     |      |     |     |          |
|----------|------|-------------------------------------|------|-----|-----|----------|
| FL102A   | IP65 | surface mount sheet metal enclosure | 300  | 250 | 160 | 2 500.00 |
| FL104A   | IP65 | surface mount sheet metal enclosure | 350  | 300 | 160 | 2 710.00 |
| FL110A   | IP65 | surface mount sheet metal enclosure | 500  | 300 | 200 | 3 370.00 |
| FL112A   | IP65 | surface mount sheet metal enclosure | 500  | 400 | 200 | 3 800.00 |
| FL117A   | IP65 | surface mount sheet metal enclosure | 650  | 400 | 200 | 4 230.00 |
| FL120A   | IP65 | surface mount sheet metal enclosure | 650  | 500 | 250 | 4 990.00 |
| FL124A   | IP65 | surface mount sheet metal enclosure | 800  | 600 | 300 | 5 860.00 |
| FL128AEM | IP65 | surface mount sheet metal enclosure | 950  | 800 | 300 | 7 620.00 |
| FL130AEM | IP65 | surface mount sheet metal enclosure | 1250 | 800 | 300 | 9 790.00 |

Above enclosures with transparent door (add suffix T to part no. - e.g **FL102AT** )

+ 15%

**Polyester enclosures 630A (surface mounting)**

- Colour: RAL 7035 (*light grey*)
- IP66 protection, insulation class II
- Waterproof hood, top and bottom (*incorporated*)

|         |      |                                   |     |     |     |          |
|---------|------|-----------------------------------|-----|-----|-----|----------|
| FL204B  | IP66 | surface mount polyester enclosure | 350 | 300 | 160 | 3 690.00 |
| FL209B  | IP66 | surface mount polyester enclosure | 500 | 300 | 200 | 4 230.00 |
| FL213B  | IP66 | surface mount polyester enclosure | 500 | 400 | 200 | 4 670.00 |
| FL216B  | IP66 | surface mount polyester enclosure | 650 | 400 | 200 | 5 860.00 |
| FL221B  | IP66 | surface mount polyester enclosure | 650 | 500 | 250 | 7 160.00 |
| FL221BT | IP66 | as above + transparent door       | 650 | 500 | 250 | 5 620.00 |
| FL229B  | IP66 | surface mount polyester enclosure | 800 | 600 | 300 | 9 330.00 |

Above enclosures, add suffix T to part no. - e.g **FL204BT** (excl. **FL221BT** with transparent door)

+15%

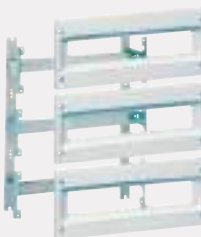
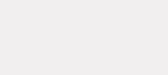
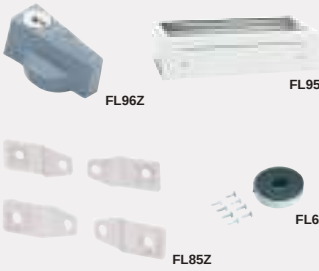
**Chassis plates (supplied separately)**

- Plain mounting plate mounted either directly
- Sheet metal thickness 2 mm
- Mounting either directly on the back of enclosure or on the integrated slides with brackets **FL450A** to adjust depth, see page **H-14**

| type     | description                        |               | for enclosures | price    |
|----------|------------------------------------|---------------|----------------|----------|
| FL402A   | internal sheet metal chassis plate | for enclosure | FL102          | 380.00   |
| FL404A   | internal sheet metal chassis plate | for enclosure | FL104/204      | 392.00   |
| FL407A   | internal sheet metal chassis plate | for enclosure | FL110/209      | 596.00   |
| FL408A   | internal sheet metal chassis plate | for enclosure | FL112/213      | 651.00   |
| FL412A   | internal sheet metal chassis plate | for enclosure | FL117/216      | 824.00   |
| FL413A   | internal sheet metal chassis plate | for enclosure | FL120/221/221B | 977.00   |
| FL415A   | internal sheet metal chassis plate | for enclosure | FL124/229      | 1 410.00 |
| FL417AEM | internal sheet metal chassis plate | for enclosure | FL128          | 2 190.00 |
| FL419AEM | internal sheet metal chassis plate | for enclosure | FL130          | 2 760.00 |

Above ZAR prices do not include VAT. E&OE

## Sheet metal & polyester enclosures IP65

|                                                                                                |                                                                                    |                                                         |                                  |                                 |                |           |          |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------|---------------------------------|----------------|-----------|----------|
|               | Orion + Enclosures (IP65) (sheet metal and polyester)                              |                                                         |                                  |                                 |                |           |          |
|                                                                                                | type                                                                               | description                                             |                                  |                                 | for enclosures |           | price    |
|              | Internal door assembly                                                             |                                                         |                                  |                                 |                |           |          |
|                                                                                                | • Internal doors, sheet metal reversible                                           |                                                         |                                  |                                 |                |           |          |
|                                                                                                | • Delivered with fixing accessories mounting on slides with delivered fixing frame |                                                         |                                  |                                 |                |           |          |
|                                                                                                | FL544A                                                                             | internal door mounting kit                              |                                  |                                 | for enclosure  | FL104/204 | 2 390.00 |
|                                                                                                | FL547A                                                                             | internal door mounting kit                              |                                  |                                 | for enclosure  | FL110/209 | 2 610.00 |
|                                                                                                | FL548A                                                                             | internal door mounting kit                              |                                  |                                 | for enclosure  | FL112/213 | 2 610.00 |
|                                                                                                | FL551A                                                                             | internal door mounting kit                              |                                  |                                 | for enclosure  | FL117/216 | 2 930.00 |
|                                                                                                | FL552A                                                                             | internal door mounting kit                              |                                  |                                 | for enclosure  | FL120/221 | 3 040.00 |
|                                                                                                | FL555A                                                                             | internal door mounting kit                              |                                  |                                 | for enclosure  | FL124/229 | 3 800.00 |
|                                                                                                | FL557A                                                                             | internal door mounting kit                              |                                  |                                 | for enclosure  | FL128     | 4 450.00 |
| FL559A                                                                                         | internal door mounting kit                                                         |                                                         |                                  | for enclosure                   | FL130          | 4 990.00  |          |
|             | Functional chassis (complete) for mounting modular products and MCB                |                                                         |                                  |                                 |                |           |          |
|                                                                                                | • To convert a surface mount enclosure into a distribution board                   |                                                         |                                  |                                 |                |           |          |
|                                                                                                | • Pre-assembled made up of: 2 Uprights, DIN guides and modular panels              |                                                         |                                  |                                 |                |           |          |
|                                                                                                | type                                                                               | number of modular ways                                  |                                  | description                     | for enclosures |           | price    |
|                                                                                                | FL979A                                                                             | 24                                                      | (2x12)                           | complete modular chassis system | FL104A         | 1 360.00  |          |
|                                                                                                | FL980A                                                                             | 24                                                      | (2x12)                           | complete modular chassis system | FL204B         | 1 310.00  |          |
|                                                                                                | FL981A                                                                             | 36                                                      | (3x12)                           | complete modular chassis system | FL110/209      | 1 460.00  |          |
|                                                                                                | FL982A                                                                             | 54                                                      | (3x18)                           | complete modular chassis system | FL112/213      | 1 960.00  |          |
|                                                                                                | FL983A                                                                             | 72                                                      | (4x18)                           | complete modular chassis system | FL117/216      | 2 840.00  |          |
|                                                                                                | FL994A                                                                             | 88                                                      | (4x22)                           | complete modular chassis system | FL120A/221B    | 3 280.00  |          |
| FL996A                                                                                         | 140                                                                                | (5x28)                                                  | complete modular chassis system  | FL124A/229B                     | 4 360.00       |           |          |
| FL998A                                                                                         | 216                                                                                | (6x36)                                                  | complete modular chassis system  | FL128A                          | 5 670.00       |           |          |
| FL000A                                                                                         | 288                                                                                | (8x36)                                                  | complete modular chassis system  | FL130A                          | 6 810.00       |           |          |
|             | Kits for main incomer for enclosures                                               |                                                         |                                  |                                 |                |           |          |
|                                                                                                | FL372A                                                                             | (H) 300 mm                                              | kit to mount 125/160A MCCB       | into                            | FL120/221      | 1 320.00  |          |
|                                                                                                | FL373A                                                                             | (H) 300 mm                                              | kit to mount 125/160A MCCB       | into                            | FL124/229      | 1 530.00  |          |
|                                                                                                | FL374A                                                                             | (H) 300 mm                                              | kit to mount 125/160A MCCB       | into                            | FL128/130      | 1 780.00  |          |
| Above requires <b>HYA033H</b> DIN-rail adaptor to mount onto rail in kit, see MCCB accessories |                                                                                    |                                                         |                                  |                                 |                |           |          |
|             | Blank front covers                                                                 |                                                         |                                  |                                 |                |           |          |
|                                                                                                | • Fixed by screws of 1/4 turn to replace modular covers                            |                                                         |                                  |                                 |                |           |          |
|                                                                                                | FL711E                                                                             | 150 mm                                                  | blank front cover for enclosures | FL104/10FL204/9                 | 312.00         |           |          |
|                                                                                                | FL712E                                                                             | 150 mm                                                  | blank front cover for enclosures | FL112/17/FL213/16               | 372.00         |           |          |
|                                                                                                | FL713E                                                                             | 150 mm                                                  | blank front cover for enclosures | FL120A/221B                     | 396.00         |           |          |
|                                                                                                | FL714E                                                                             | 150 mm                                                  | blank front cover for enclosures | FL124A/229B                     | 488.00         |           |          |
|                                                                                                | FL715E                                                                             | 150 mm                                                  | blank front cover for enclosures | FL128/130A                      | 619.00         |           |          |
|                                                                                                | FL733E                                                                             | 300 mm                                                  | blank front cover for enclosures | FL120A/221B                     | 1 410.00       |           |          |
|                                                                                                | FL734E                                                                             | 300 mm                                                  | blank front cover for enclosures | FL124A/229B                     | 1 520.00       |           |          |
|                                                                                                | FL735E                                                                             | 300 mm                                                  | blank front cover for enclosures | FL128/130A                      | 1 630.00       |           |          |
|             | Plinths for enclosures                                                             |                                                         |                                  |                                 |                |           |          |
|                                                                                                | FL958A                                                                             | base mount plinth system                                |                                  | for enclosures                  | FL120/221      | 3 260.00  |          |
|                                                                                                | FL960A                                                                             | base mount plinth system                                |                                  | for enclosures                  | FL124/229      | 3 690.00  |          |
|                                                                                                | FL962A                                                                             | base mount plinth system                                |                                  | for enclosures                  | FL128/130      | 4 230.00  |          |
|             | Accessories for enclosures                                                         |                                                         |                                  |                                 |                |           |          |
|                                                                                                | FL670A                                                                             | seal kit for mounting enclosures one above another      |                                  |                                 |                |           | 380.00   |
|                                                                                                | FL85Z                                                                              | metallic mounting brackets for sheet metal enclosures   |                                  |                                 |                |           | 166.00   |
|                                                                                                | FL863Z                                                                             | plastic mounting brackets for polyester enclosures      |                                  |                                 |                |           | 318.00   |
|                                                                                                | FL871Z                                                                             | blanking strip (grey) 6 x 4 way blanks in a pack        |                                  |                                 |                |           | 73.00    |
|                                                                                                | FL96ZX01                                                                           | lever handle door lock (without key) for all enclosures |                                  |                                 |                |           | 225.00   |
|                                                                                                | FL96Z                                                                              | lever handle door lock (with key) for all enclosures    |                                  |                                 |                |           | 219.00   |
|                                                                                                | FL93Z                                                                              | set of 2 locks triangular centre 8 mm                   |                                  |                                 |                |           | 154.00   |
| FL450A                                                                                         | 4 brackets delivered with fixing screws                                            |                                                         |                                  |                                 |                | 244.00    |          |

## Sheet metal enclosures IP65



## HE series - Sheet metal electrical enclosures

- Manufactured from high-grade mild steel, powder-coated
- Supplied with internal Aluzinc chassis plate (2 mm thick)
- Supplied with 6 mm square drive locks, key lock and mounting brackets
- Degree of protection: IP65 (continuous foam gasket)



HE204

| type | IP rating | colour | description | dimensions (mm) |     |     | price |
|------|-----------|--------|-------------|-----------------|-----|-----|-------|
|      |           |        |             | (H)             | (W) | (D) |       |

## Sheet metal enclosures

## IP65

## Orange enclosures - (RAL2000) electric orange

|            |      |        |                                  |      |     |     |          |
|------------|------|--------|----------------------------------|------|-----|-----|----------|
| HE200      | IP65 | orange | wall mount sheet metal enclosure | 250  | 200 | 170 | 1 400.00 |
| HE201      | IP65 | orange | wall mount sheet metal enclosure | 350  | 250 | 170 | 1 700.00 |
| HE202      | IP65 | orange | wall mount sheet metal enclosure | 450  | 300 | 220 | 2 100.00 |
| HE203      | IP65 | orange | wall mount sheet metal enclosure | 550  | 400 | 220 | 2 560.00 |
| HE203GP1*  | IP65 | orange | as above with bottom gland plate | 550  | 400 | 220 | 3 160.00 |
| HE204      | IP65 | orange | wall mount sheet metal enclosure | 650  | 450 | 270 | 3 180.00 |
| HE205      | IP65 | orange | wall mount sheet metal enclosure | 750  | 550 | 270 | 3 940.00 |
| HE206      | IP65 | orange | wall mount sheet metal enclosure | 850  | 600 | 270 | 4 890.00 |
| HE206E     | IP65 | orange | wall mount sheet metal enclosure | 850  | 600 | 330 | 5 290.00 |
| HE206EGP1* | IP65 | orange | as above with bottom gland plate | 850  | 600 | 330 | 6 560.00 |
| HE207      | IP65 | orange | wall mount sheet metal enclosure | 950  | 700 | 270 | 5 860.00 |
| HE207E     | IP65 | orange | wall mount sheet metal enclosure | 950  | 700 | 330 | 6 350.00 |
| HE207EGP1* | IP65 | orange | as above with bottom gland plate | 950  | 700 | 330 | 8 400.00 |
| HE208      | IP65 | orange | wall mount sheet metal enclosure | 1150 | 850 | 270 | 7 880.00 |
| HE208E     | IP65 | orange | wall mount sheet metal enclosure | 1150 | 850 | 330 | 8 650.00 |

\* GP1-(bottom gland plate)

## Enclosures with transparent glass door

|         |      |        |                                 |      |     |     |           |
|---------|------|--------|---------------------------------|------|-----|-----|-----------|
| HE201T  | IP65 | orange | enclosure with transparent door | 350  | 250 | 170 | 2 340.00  |
| HE202T  | IP65 | orange | enclosure with transparent door | 450  | 300 | 220 | 2 820.00  |
| HE203T  | IP65 | orange | enclosure with transparent door | 550  | 400 | 220 | 3 290.00  |
| HE204T  | IP65 | orange | enclosure with transparent door | 650  | 450 | 270 | 4 420.00  |
| HE205T  | IP65 | orange | enclosure with transparent door | 750  | 550 | 270 | 5 770.00  |
| HE206T  | IP65 | orange | enclosure with transparent door | 850  | 600 | 270 | 6 500.00  |
| HE206ET | IP65 | orange | enclosure with transparent door | 850  | 600 | 330 | 6 890.00  |
| HE207T  | IP65 | orange | enclosure with transparent door | 950  | 700 | 270 | 7 850.00  |
| HE207ET | IP65 | orange | enclosure with transparent door | 950  | 700 | 330 | 8 330.00  |
| HE208T  | IP65 | orange | enclosure with transparent door | 1150 | 850 | 270 | 10 600.00 |
| HE208ET | IP65 | orange | enclosure with transparent door | 1150 | 850 | 330 | 11 300.00 |

## Grey enclosures - (RAL7032) light grey

## IP65

|          |      |      |                                  |      |     |     |          |
|----------|------|------|----------------------------------|------|-----|-----|----------|
| HE200-G  | IP65 | grey | wall mount sheet metal enclosure | 250  | 200 | 170 | 1 400.00 |
| HE201-G  | IP65 | grey | wall mount sheet metal enclosure | 350  | 250 | 170 | 1 700.00 |
| HE202-G  | IP65 | grey | wall mount sheet metal enclosure | 450  | 300 | 220 | 2 100.00 |
| HE203-G  | IP65 | grey | wall mount sheet metal enclosure | 550  | 400 | 220 | 2 560.00 |
| HE204-G  | IP65 | grey | wall mount sheet metal enclosure | 650  | 450 | 270 | 3 310.00 |
| HE205-G  | IP65 | grey | wall mount sheet metal enclosure | 750  | 550 | 270 | 4 200.00 |
| HE206-G  | IP65 | grey | wall mount sheet metal enclosure | 850  | 600 | 270 | 4 890.00 |
| HE206E-G | IP65 | grey | wall mount sheet metal enclosure | 850  | 600 | 330 | 5 290.00 |
| HE207-G  | IP65 | grey | wall mount sheet metal enclosure | 950  | 700 | 270 | 5 860.00 |
| HE207E-G | IP65 | grey | wall mount sheet metal enclosure | 950  | 700 | 330 | 6 350.00 |
| HE208-G  | IP65 | grey | wall mount sheet metal enclosure | 1150 | 850 | 270 | 7 880.00 |
| HE208E-G | IP65 | grey | wall mount sheet metal enclosure | 1150 | 850 | 330 | 8 650.00 |

## Enclosures with transparent glass door

|           |      |      |                                 |      |     |     |           |
|-----------|------|------|---------------------------------|------|-----|-----|-----------|
| HE201T-G  | IP65 | grey | enclosure with transparent door | 350  | 250 | 170 | 2 340.00  |
| HE202T-G  | IP65 | grey | enclosure with transparent door | 450  | 300 | 220 | 2 820.00  |
| HE203T-G  | IP65 | grey | enclosure with transparent door | 550  | 400 | 220 | 3 290.00  |
| HE204T-G  | IP65 | grey | enclosure with transparent door | 650  | 450 | 270 | 4 420.00  |
| HE205T-G  | IP65 | grey | enclosure with transparent door | 750  | 550 | 270 | 5 770.00  |
| HE206T-G  | IP65 | grey | enclosure with transparent door | 850  | 600 | 270 | 6 500.00  |
| HE206ET-G | IP65 | grey | enclosure with transparent door | 850  | 600 | 330 | 6 890.00  |
| HE207T-G  | IP65 | grey | enclosure with transparent door | 950  | 700 | 270 | 7 850.00  |
| HE207ET-G | IP65 | grey | enclosure with transparent door | 950  | 700 | 330 | 8 330.00  |
| HE208T-G  | IP65 | grey | enclosure with transparent door | 1150 | 850 | 270 | 10 600.00 |
| HE208ET-G | IP65 | grey | enclosure with transparent door | 1150 | 850 | 330 | 11 300.00 |



HE204T-G

# Sheet metal enclosures IP65

|                                                                                                           | type                                                            | IP<br>rating | colour                               | description                      | dimensions (mm)      |     |           | price    |          |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|--------------|--------------------------------------|----------------------------------|----------------------|-----|-----------|----------|----------|
|                                                                                                           |                                                                 |              |                                      |                                  | (H)                  | (W) | (D)       |          |          |
| <br>HE204T + ID04 + HC04 | Internal door kit for HE enclosures                             |              |                                      |                                  |                      |     |           |          |          |
|                                                                                                           | • Reversible and lockable                                       |              |                                      |                                  |                      |     |           |          |          |
|                                                                                                           | ID02                                                            | —            | white                                | internal door kit for enclosures | HE202                | —   | —         | 832.00   |          |
|                                                                                                           | ID03                                                            | —            | white                                | internal door kit for enclosures | HE203                | —   | —         | 1 100.00 |          |
|                                                                                                           | ID04                                                            | —            | white                                | internal door kit for enclosures | HE204                | —   | —         | 1 440.00 |          |
|                                                                                                           | ID05                                                            | —            | white                                | internal door kit for enclosures | HE205                | —   | —         | 1 770.00 |          |
|                                                                                                           | ID06                                                            | —            | white                                | internal door kit for enclosures | HE206                | —   | —         | 2 160.00 |          |
|                                                                                                           | ID06E                                                           | —            | white                                | internal door kit for enclosures | HE206E               | —   | —         | 2 240.00 |          |
|                                                                                                           | ID07                                                            | —            | white                                | internal door kit for enclosures | HE207                | —   | —         | 2 680.00 |          |
|                                                                                                           | ID07E                                                           | —            | white                                | internal door kit for enclosures | HE207E               | —   | —         | 2 830.00 |          |
| <br>HC0...               | Canopy for HE enclosures                                        |              |                                      |                                  |                      |     |           |          |          |
|                                                                                                           | Orange - RAL2000 (electric orange)                              |              |                                      |                                  |                      |     |           |          |          |
|                                                                                                           | HC02                                                            | IP65         | orange                               | steel canopy for enclosures      | HE202                | —   | 300       | 220      | 414.00   |
|                                                                                                           | HC03                                                            | IP65         | orange                               | steel canopy for enclosures      | HE203                | —   | 400       | 220      | 462.00   |
|                                                                                                           | HC04                                                            | IP65         | orange                               | steel canopy for enclosures      | HE204                | —   | 450       | 270      | 581.00   |
|                                                                                                           | HC05                                                            | IP65         | orange                               | steel canopy for enclosures      | HE205                | —   | 550       | 270      | 746.00   |
|                                                                                                           | HC06                                                            | IP65         | orange                               | steel canopy for enclosures      | HE206                | —   | 600       | 270      | 765.00   |
|                                                                                                           | HC06E                                                           | IP65         | orange                               | steel canopy for enclosures      | HE206E               | —   | 600       | 330      | 860.00   |
|                                                                                                           | HC07                                                            | IP65         | orange                               | steel canopy for enclosures      | HE207                | —   | 700       | 270      | 903.00   |
|                                                                                                           | HC07E                                                           | IP65         | orange                               | steel canopy for enclosures      | HE207E               | —   | 700       | 330      | 1 030.00 |
| <br>16.4.431.01         | HC08                                                            | IP65         | orange                               | steel canopy for enclosures      | HE208                | —   | 850       | 270      | 1 070.00 |
|                                                                                                           | HC08E                                                           | IP65         | orange                               | steel canopy for enclosures      | HE208E               | —   | 850       | 330      | 1 270.00 |
|                                                                                                           | Grey - RAL7032 (light grey)                                     |              |                                      |                                  |                      |     |           |          |          |
|                                                                                                           | HC02-G                                                          | IP65         | grey                                 | steel canopy for enclosures      | HE202                | —   | 300       | 220      | 414.00   |
|                                                                                                           | HC03-G                                                          | IP65         | grey                                 | steel canopy for enclosures      | HE203                | —   | 400       | 220      | 462.00   |
|                                                                                                           | HC04-G                                                          | IP65         | grey                                 | steel canopy for enclosures      | HE204                | —   | 450       | 270      | 581.00   |
|                                                                                                           | HC05-G                                                          | IP65         | grey                                 | steel canopy for enclosures      | HE205                | —   | 550       | 270      | 746.00   |
|                                                                                                           | HC06-G                                                          | IP65         | grey                                 | steel canopy for enclosures      | HE206                | —   | 600       | 270      | 765.00   |
|                                                                                                           | HC06E-G                                                         | IP65         | grey                                 | steel canopy for enclosures      | HE206E               | —   | 600       | 330      | 860.00   |
|                                                                                                           | HC07-G                                                          | IP65         | grey                                 | steel canopy for enclosures      | HE207                | —   | 700       | 270      | 903.00   |
| <br>HE12960GP2         | HC07E-G                                                         | IP65         | grey                                 | steel canopy for enclosures      | HE207E               | —   | 700       | 330      | 1 030.00 |
|                                                                                                           | HC08-G                                                          | IP65         | grey                                 | steel canopy for enclosures      | HE208                | —   | 850       | 270      | 1 070.00 |
|                                                                                                           | HC08E-G                                                         | IP65         | grey                                 | steel canopy for enclosures      | HE208E               | —   | 850       | 330      | 1 270.00 |
|                                                                                                           | Accessories                                                     |              |                                      |                                  |                      |     |           |          |          |
|                                                                                                           | 16.4.431.01                                                     | 16 mm        | black                                | padlockable lever handle         | for above enclosures |     |           | 190.00   |          |
|                                                                                                           | Special "extra deep" enclosures IP65                            |              |                                      |                                  |                      |     |           |          |          |
|                                                                                                           | • Ideal for changeover switch applications                      |              |                                      |                                  |                      |     |           |          |          |
|                                                                                                           | • Supplied with internal Aluzinc chassis plate (2 mm thick)     |              |                                      |                                  |                      |     |           |          |          |
|                                                                                                           | • Degree of protection: IP65 (continuous foam gasket)           |              |                                      |                                  |                      |     |           |          |          |
|                                                                                                           | • Colour : RAL2000 (electric orange) - other colours on request |              |                                      |                                  |                      |     |           |          |          |
| HE09645                                                                                                   | IP65                                                            | orange       | extra deep sheet metal enclosures    | 900                              | 600                  | 450 | 11 600.00 |          |          |
| HE12960GP1*                                                                                               | IP65                                                            | orange       | as above with top/bottom gland plate | 1200                             | 900                  | 600 | 21 900.00 |          |          |
| * GP1-(bottom gland plate)                                                                                |                                                                 |              |                                      |                                  |                      |     |           |          |          |
| <br>GAZS1E             | Special "termination" boxes IP65                                |              |                                      |                                  |                      |     |           |          |          |
|                                                                                                           | • Front cover secured by 4 x screws                             |              |                                      |                                  |                      |     |           |          |          |
|                                                                                                           | Sheet metal enclosures                                          |              |                                      |                                  |                      |     |           |          |          |
|                                                                                                           | GAZM1E                                                          | IP65         | grey                                 | sheet metal enclosures           | 200                  | 150 | 120       | 1 400.00 |          |
|                                                                                                           | Stainless steel (AISI 304) enclosures                           |              |                                      |                                  |                      |     |           |          |          |
|                                                                                                           | GAZS1E                                                          | IP65         | S/Steel                              | stainless steel enclosures       | 200                  | 150 | 120       | 2 780.00 |          |
|                                                                                                           | For stainless steel enclosures see overleaf                     |              |                                      |                                  |                      |     |           |          |          |

## Stainless steel enclosures IP65



SE....

## 3CR12 series - Stainless steel enclosures

- Manufactured from 3CR12 stainless steel and powder-coated
- Supplied with internal Aluzinc chassis plate (2 mm thick)
- Supplied with 6 mm square drive locks, key lock and mounting brackets
- Degree of protection: IP65 (continuous foam gasket)
- Colour: RAL2000 (electric orange) - other colours on request

| type                             | IP rating | colour | description                     | dimensions (mm) |     |     | price     |
|----------------------------------|-----------|--------|---------------------------------|-----------------|-----|-----|-----------|
|                                  |           |        |                                 | (H)             | (W) | (D) |           |
| 3CR12 stainless steel enclosures |           |        |                                 | IP65            |     |     |           |
| SE1035                           | IP65      | orange | 3CR12 stainless steel enclosure | 350             | 250 | 170 | 2 480.00  |
| SE1040                           | IP65      | orange | 3CR12 stainless steel enclosure | 400             | 300 | 220 | 2 960.00  |
| SE1050                           | IP65      | orange | 3CR12 stainless steel enclosure | 500             | 400 | 220 | 3 600.00  |
| SE1065                           | IP65      | orange | 3CR12 stainless steel enclosure | 600             | 500 | 220 | 4 670.00  |
| SE1070                           | IP65      | orange | 3CR12 stainless steel enclosure | 700             | 600 | 270 | 6 280.00  |
| SE1080                           | IP65      | orange | 3CR12 stainless steel enclosure | 800             | 600 | 270 | 7 710.00  |
| SE1090                           | IP65      | orange | 3CR12 stainless steel enclosure | 900             | 700 | 330 | 9 250.00  |
| SE1100                           | IP65      | orange | 3CR12 stainless steel enclosure | 1000            | 800 | 330 | 11 400.00 |
| SE1201                           | IP65      | orange | 3CR12 stainless steel enclosure | 1200            | 800 | 330 | 13 000.00 |

## Stainless steel enclosures with transparent glass door

|         |      |        |                                  |      |     |     |           |
|---------|------|--------|----------------------------------|------|-----|-----|-----------|
| SE1040T | IP65 | orange | 3CR12 enc. with transparent door | 400  | 300 | 220 | 3 820.00  |
| SE1050T | IP65 | orange | 3CR12 enc. with transparent door | 500  | 400 | 220 | 4 690.00  |
| SE1065T | IP65 | orange | 3CR12 enc. with transparent door | 600  | 500 | 220 | 6 140.00  |
| SE1070T | IP65 | orange | 3CR12 enc. with transparent door | 700  | 600 | 270 | 8 070.00  |
| SE1080T | IP65 | orange | 3CR12 enc. with transparent door | 800  | 600 | 270 | 9 760.00  |
| SE1090T | IP65 | orange | 3CR12 enc. with transparent door | 900  | 700 | 330 | 11 900.00 |
| SE1100T | IP65 | orange | 3CR12 enc. with transparent door | 1000 | 800 | 330 | 14 600.00 |
| SE1201T | IP65 | orange | 3CR12 enc. with transparent door | 1200 | 800 | 330 | 16 900.00 |

## Canopy for above enclosures

|          |      |        |                                       |  |  |             |          |
|----------|------|--------|---------------------------------------|--|--|-------------|----------|
| HC3CR-4  | IP65 | orange | canopy for stainless steel enclosures |  |  | SE1040      | 954.00   |
| HC3CR-5  | IP65 | orange | canopy for stainless steel enclosures |  |  | SE1050      | 981.00   |
| HC3CR-6  | IP65 | orange | canopy for stainless steel enclosures |  |  | SE1065      | 1 090.00 |
| HC3CR-7  | IP65 | orange | canopy for stainless steel enclosures |  |  | SE1070/1080 | 1 330.00 |
| HC3CR-9  | IP65 | orange | canopy for stainless steel enclosures |  |  | SE1090      | 1 540.00 |
| HC3CR-10 | IP65 | orange | canopy for stainless steel enclosures |  |  | SE1100/1200 | 1 760.00 |

Add "-G" to the end of the above SE.. / HC3CR.. part numbers for grey (RAL7032) enclosures



RGS....

## 304 stainless steel enclosures

|                                                                                                                                                                                                                                                                                                                                                                                |      |         |                                  |      |     |     |           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------|----------------------------------|------|-----|-----|-----------|
| <ul style="list-style-type: none"><li>• Manufactured from high grade SS 304 stainless steel</li><li>• Supplied with internal Aluzinc chassis plate (2 mm thick)</li><li>• Supplied with bottom SS 304 gland plate and enclosure mounting brackets</li><li>• Degree of protection: IP65 (continuous foam gasket)</li><li>• Colour: Stainless steel - "brushed" finish</li></ul> |      |         |                                  |      |     |     |           |
| RGS304-30                                                                                                                                                                                                                                                                                                                                                                      | IP65 | S/Steel | SS 304 stainless steel enclosure | 350  | 250 | 170 | 3 860.00  |
| RGS304-40                                                                                                                                                                                                                                                                                                                                                                      | IP65 | S/Steel | SS 304 stainless steel enclosure | 400  | 300 | 220 | 4 830.00  |
| RGS304-50                                                                                                                                                                                                                                                                                                                                                                      | IP65 | S/Steel | SS 304 stainless steel enclosure | 500  | 400 | 220 | 6 560.00  |
| RGS304-65                                                                                                                                                                                                                                                                                                                                                                      | IP65 | S/Steel | SS 304 stainless steel enclosure | 600  | 500 | 220 | 9 390.00  |
| RGS304-70                                                                                                                                                                                                                                                                                                                                                                      | IP65 | S/Steel | SS 304 stainless steel enclosure | 700  | 600 | 270 | 13 000.00 |
| RGS304-80                                                                                                                                                                                                                                                                                                                                                                      | IP65 | S/Steel | SS 304 stainless steel enclosure | 800  | 600 | 270 | 14 500.00 |
| RGS304-93                                                                                                                                                                                                                                                                                                                                                                      | IP65 | S/Steel | SS 304 stainless steel enclosure | 900  | 700 | 330 | 19 000.00 |
| RGS304-103                                                                                                                                                                                                                                                                                                                                                                     | IP65 | S/Steel | SS 304 stainless steel enclosure | 1000 | 800 | 330 | 22 700.00 |
| RGS304-123                                                                                                                                                                                                                                                                                                                                                                     | IP65 | S/Steel | SS 304 stainless steel enclosure | 1200 | 800 | 330 | 27 300.00 |

## Internal door kit for all above enclosures (mild steel)

|          |   |       |                                        |      |     |     |          |
|----------|---|-------|----------------------------------------|------|-----|-----|----------|
| ID3CR-4  | — | white | internal door kit for above enclosures | 400  | 300 | 170 | 900.00   |
| ID3CR-5  | — | white | internal door kit for above enclosures | 500  | 400 | 220 | 1 180.00 |
| ID3CR-6  | — | white | internal door kit for above enclosures | 600  | 500 | 220 | 1 590.00 |
| ID3CR-7  | — | white | internal door kit for above enclosures | 700  | 600 | 270 | 2 010.00 |
| ID3CR-8  | — | white | internal door kit for above enclosures | 800  | 600 | 270 | 2 310.00 |
| ID3CR-9  | — | white | internal door kit for above enclosures | 900  | 700 | 330 | 2 910.00 |
| ID3CR-10 | — | white | internal door kit for above enclosures | 1000 | 800 | 330 | 3 400.00 |
| ID3CR-12 | — | white | internal door kit for above enclosures | 1200 | 800 | 330 | 3 620.00 |



RGS....

## Busbar system accessories



| type                                                                                                                                                                                                                    |      | description                                                |                                    |                      |                                                |                            | price     |         |        |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------|------------------------------------|----------------------|------------------------------------------------|----------------------------|-----------|---------|--------|----------|
| Rail mountable earth/neutral terminals (clips vertically onto rail)                                                                                                                                                     |      |                                                            |                                    |                      |                                                |                            |           |         |        |          |
| KM13N                                                                                                                                                                                                                   |      | rail mountable neutral terminal (blue)                     |                                    |                      | 6 x 16 + 7 x 10 mm²                            |                            | 77.00     |         |        |          |
| KM13E                                                                                                                                                                                                                   |      | rail mountable earth terminal (green)                      |                                    |                      | 6 x 16 + 7 x 10 mm²                            |                            | 81.00     |         |        |          |
| Terminal support (clips into various distribution boards)                                                                                                                                                               |      |                                                            |                                    |                      |                                                |                            |           |         |        |          |
| KN00A                                                                                                                                                                                                                   |      | universal terminal support                                 |                                    |                      | DIN-rail mount (horizontal or vertical) 105 mm |                            | 52.00     |         |        |          |
| Distribution terminals (fully insulated clips onto above support)                                                                                                                                                       |      |                                                            |                                    |                      |                                                |                            |           |         |        |          |
| Incoming:                                                                                                                                                                                                               |      | 1.5..25 mm² screw clamp terminal                           |                                    |                      |                                                |                            |           |         |        |          |
| Outgoing:                                                                                                                                                                                                               |      | 1.5..4 mm² connect cage clamp terminals (push-in)          |                                    |                      |                                                |                            |           |         |        |          |
| type                                                                                                                                                                                                                    |      | supply<br>1.5..25 mm²                                      |                                    | output<br>1.5..4 mm² |                                                | description                |           | colour  | price  |          |
| KN10E                                                                                                                                                                                                                   |      | 63A                                                        | 2 x 25 mm²                         | 8 x 4 mm²            |                                                | insulated earth terminal   |           | (green) | 117.00 |          |
| KN18E                                                                                                                                                                                                                   |      | 63A                                                        | 4 x 25 mm²                         | 14 x 4 mm²           |                                                | insulated earth terminal   |           | (green) | 144.00 |          |
| KN26E                                                                                                                                                                                                                   |      | 63A                                                        | 6 x 25 mm²                         | 20 x 4 mm²           |                                                | insulated earth terminal   |           | (green) | 173.00 |          |
| KN99E                                                                                                                                                                                                                   |      | earth insulated bridge piece for above terminals (push-in) |                                    |                      |                                                |                            |           |         | 252.00 |          |
| KN10N                                                                                                                                                                                                                   |      | 63A                                                        | 2 x 25 mm²                         | 8 x 4 mm²            |                                                | insulated neutral terminal |           | (blue)  | 117.00 |          |
| KN18N                                                                                                                                                                                                                   |      | 63A                                                        | 4 x 25 mm²                         | 14 x 4 mm²           |                                                | insulated neutral terminal |           | (blue)  | 144.00 |          |
| KN26N                                                                                                                                                                                                                   |      | 63A                                                        | 6 x 25 mm²                         | 20 x 4 mm²           |                                                | insulated neutral terminal |           | (blue)  | 173.00 |          |
| KN99N                                                                                                                                                                                                                   |      | neutral insulated bridge piece for above terminals (10pcs) |                                    |                      |                                                |                            |           |         | 252.00 |          |
| KN10P                                                                                                                                                                                                                   |      | 63A                                                        | 2 x 25 mm²                         | 8 x 4 mm²            |                                                | insulated phase terminal   |           | (brown) | 117.00 |          |
| KN18P                                                                                                                                                                                                                   |      | 63A                                                        | 4 x 25 mm²                         | 14 x 4 mm²           |                                                | insulated phase terminal   |           | (brown) | 144.00 |          |
| KN26P                                                                                                                                                                                                                   |      | 63A                                                        | 6 x 25 mm²                         | 20 x 4 mm²           |                                                | insulated phase terminal   |           | (brown) | 173.00 |          |
| KN99P                                                                                                                                                                                                                   |      | phase insulated bridge piece for above terminals (10 pcs)  |                                    |                      |                                                |                            |           |         | 252.00 |          |
| KN04N                                                                                                                                                                                                                   |      | 90A                                                        | 4 x 25 mm²                         | screw clamp          |                                                | insulated neutral terminal |           | (blue)  | 72.00  |          |
| KN07N                                                                                                                                                                                                                   |      | 90A                                                        | 7 x 25 mm²                         | screw clamp          |                                                | insulated neutral terminal |           | (blue)  | 76.00  |          |
| KN04P                                                                                                                                                                                                                   |      | 90A                                                        | 4 x 25 mm²                         | screw clamp          |                                                | insulated phase terminal   |           | (brown) | 72.00  |          |
| KN07P                                                                                                                                                                                                                   |      | 90A                                                        | 7 x 25 mm²                         | screw clamp          |                                                | insulated phase terminal   |           | (brown) | 76.00  |          |
| Single-pole distribution blocks (fully protected) lcc: 36kA                                                                                                                                                             |      |                                                            |                                    |                      |                                                |                            |           |         |        |          |
| <ul style="list-style-type: none"><li>• Space saving</li><li>• IP20 protection</li><li>• DIN-rail or bolt down mounting</li><li>• One main cable input - various cable outputs</li></ul>                                |      |                                                            |                                    |                      |                                                |                            |           |         |        |          |
| type                                                                                                                                                                                                                    | amps | incoming<br>terminals                                      | outgoing terminals (per phase) mm² |                      |                                                |                            | lcc<br>kA | poles   | price  |          |
|                                                                                                                                                                                                                         |      |                                                            | 1.5...6                            | 2.5...10             | 2.5...16                                       | 2.5...25                   |           |         |        | 6...35   |
| KJ02D                                                                                                                                                                                                                   | 125A | 1x35/1x16 mm²                                              |                                    |                      | 6                                              |                            |           | 36      | 1 pole | 585.00   |
| KJ02C                                                                                                                                                                                                                   | 160A | 70 mm²                                                     |                                    |                      | 6                                              |                            |           | 36      | 1 pole | 938.00   |
| KJ02A                                                                                                                                                                                                                   | 250A | 95 mm²                                                     |                                    | 4                    | 5                                              | 2                          |           | 36      | 1 pole | 1 210.00 |
| KJ02B                                                                                                                                                                                                                   | 400A | 150 mm²                                                    |                                    | 4                    | 5                                              | 2                          |           | 36      | 1 pole | 1 310.00 |
| Multi-pole distribution blocks                                                                                                                                                                                          |      |                                                            |                                    |                      |                                                |                            |           |         |        |          |
| <ul style="list-style-type: none"><li>• Modular DIN-rail mounting (mounts through modular front cut-out)</li><li>• 3Ph+N distribution bars in modular format</li><li>• High fault level</li><li>• IEC 60947-1</li></ul> |      |                                                            |                                    |                      |                                                |                            |           |         |        |          |
| type                                                                                                                                                                                                                    | amps | incoming<br>terminals                                      | outgoing terminals (per phase) mm² |                      |                                                |                            | lcc<br>kA | poles   | price  |          |
|                                                                                                                                                                                                                         |      |                                                            | 1.5...6                            | 2.5...10             | 2.5...16                                       | 2.5...25                   |           |         |        | 6...35   |
| KJ01A                                                                                                                                                                                                                   | 100A | 35 mm²                                                     |                                    |                      | 10                                             | 1                          |           | 29      | 2 pole | 846.00   |
| KJ01B                                                                                                                                                                                                                   | 80A  | 16 mm²                                                     |                                    | 8                    |                                                |                            |           | 21      | 4 pole | 846.00   |
| KJ01C                                                                                                                                                                                                                   | 125A | 35 mm²                                                     |                                    |                      | 10                                             | 1                          |           | 29      | 4 pole | 958.00   |
| KJ01D                                                                                                                                                                                                                   | 160A | 50 mm²                                                     |                                    |                      | 8                                              |                            | 3         | 20      | 4 pole | 2 920.00 |
| KJ02E                                                                                                                                                                                                                   | 125A | 25 mm²                                                     | 5/4*                               | 2/6*                 |                                                |                            |           | 20      | 4 pole | 907.00   |
| * = Neutral terminals                                                                                                                                                                                                   |      |                                                            |                                    |                      |                                                |                            |           |         |        |          |

## Panel-mount fans



113H1238HA2BMT



SVF114H



FU-9804C2 P2A23

## Filter / fan units - Panel mounting

Complete filter fan assembly with fan, mounting frame, removable filter, internal finger guard. Mounts through panel wall or door for simple installation as a ventilator device for electrical cabinets/panels.

- Push-in frame, self locking (*fastening without screws*)
- Permanent sealing gasket in polyurethane foam
- Patented hinged system for easy filter replacement without tools
- Shielded self lubricating ball bearings
- Protection type: IP55

| type | voltage<br>(V) | power<br>(W) | noise<br>(dB/A) | air flow<br>(CFM) | dimensions (mm <sup>2</sup> ) |       |        | price |
|------|----------------|--------------|-----------------|-------------------|-------------------------------|-------|--------|-------|
|      |                |              |                 |                   | size                          | frame | cutout |       |

## Panel mount fan / filter units

IP55

- Fan, mounting frame, removable filter, internal finger guard

## AC filter/fans

|                 |         |    |    |     |   |     |     |           |
|-----------------|---------|----|----|-----|---|-----|-----|-----------|
| 112H9225HA2BPT  | 230 VAC | 14 | 32 | 18  | 2 | 109 | 92  | 4 380.00  |
| 113H1238HA2BMT  | 230 VAC | 18 | 42 | 59  | 3 | 145 | 124 | 5 270.00  |
| 114H17255HA2BMT | 230 VAC | 28 | 51 | 177 | 4 | 202 | 177 | 16 400.00 |
| 115H1806HA2BMT  | 230 VAC | 47 | 57 | 340 | 5 | 252 | 224 | 19 200.00 |
| 116H2208HA2BMT  | 230 VAC | 58 | 65 | 476 | 6 | 320 | 292 | 23 100.00 |
| 116H2509HA2BMW  | 230 VAC | 57 | 64 | 570 | 6 | 320 | 292 | 25 600.00 |
| 113H1238HA1BMT  | 110 VAC | 18 | 42 | 59  | 3 | 145 | 124 | 5 270.00  |
| 114H17255HA1BMT | 110 VAC | 28 | 51 | 177 | 4 | 202 | 177 | 16 400.00 |
| 115H1806HA1BMT  | 110 VAC | 47 | 57 | 340 | 5 | 252 | 224 | 19 200.00 |
| 113H1238HA3BMT  | 380 VAC | 18 | 42 | 59  | 3 | 145 | 124 | 5 710.00  |
| 114H17255HA3BMT | 380 VAC | 28 | 51 | 177 | 4 | 202 | 177 | 18 700.00 |
| 115H1806HA3BMT  | 380 VAC | 47 | 57 | 340 | 5 | 252 | 292 | 20 800.00 |

## DC filter/fans

|                 |        |    |    |     |   |     |     |           |
|-----------------|--------|----|----|-----|---|-----|-----|-----------|
| 112H8025MD4BBL  | 24 VDC | 14 | 36 | 25  | 2 | 109 | 92  | 2 750.00  |
| 113H1225XD4BCLS | 24 VDC | 14 | 45 | 41  | 3 | 145 | 124 | 4 080.00  |
| 115H1724XD4BALS | 24 VDC | 36 | 54 | 136 | 5 | 252 | 224 | 13 500.00 |

## Exhaust filter - without fan used as a matching air outlet/inlet

- Match size of the filter/fan to achieve optimal ventilation within the cabinet

|         |      |   |                     |  |  |   |     |     |          |
|---------|------|---|---------------------|--|--|---|-----|-----|----------|
| SVF112H | 9225 | — | exhaust filter only |  |  | 2 | 109 | 92  | 1 190.00 |
| SVF113H | 1238 | — | exhaust filter only |  |  | 3 | 145 | 124 | 1 410.00 |
| SVF114H | 1755 | — | exhaust filter only |  |  | 4 | 202 | 177 | 1 710.00 |
| SVF115H | 1806 | — | exhaust filter only |  |  | 5 | 252 | 224 | 3 120.00 |
| SVF116H | 2208 | — | exhaust filter only |  |  | 6 | 320 | 292 | 4 450.00 |

## Filter / fan units with rain hood

IP55

- Fan, mounting frame, removable filter, internal finger guard, external rain hood

## AC filter/fans - (with rain hood)

|                 |         |    |    |     |   |     |     |          |
|-----------------|---------|----|----|-----|---|-----|-----|----------|
| FU-9801C2 P2A23 | 230 VAC | 20 | 30 | 21  | 1 | 109 | 83  | 920.00   |
| FU-9802C2 P2A23 | 230 VAC | 20 | 35 | 35  | 2 | 121 | 95  | 1 050.00 |
| FU-9803C2 P2A23 | 230 VAC | 21 | 49 | 99  | 3 | 149 | 122 | 1 150.00 |
| FU-9804C2 P2A23 | 230 VAC | 30 | 56 | 213 | 4 | 204 | 175 | 1 750.00 |
| FU-9805C2 P2A23 | 230 VAC | 49 | 67 | 592 | 5 | 255 | 223 | 4 090.00 |
| FU-9806C2 P2A23 | 230 VAC | 50 | 66 | 788 | 6 | 332 | 292 | 5 870.00 |
| FU-9803C2 P2A40 | 400 VAC | 21 | 49 | 99  | 3 | 149 | 122 | 1 080.00 |
| FU-9804C2 P2A40 | 400 VAC | 30 | 56 | 2.3 | 4 | 204 | 175 | 1 640.00 |

## DC filter/fans - (with rain hood)

|               |        |      |    |    |   |     |     |          |
|---------------|--------|------|----|----|---|-----|-----|----------|
| FU-9801C2 P2D | 24 VDC | 1.44 | 42 | 34 | 1 | 109 | 83  | 761.00   |
| FU-9802C2 P2D | 24 VDC | 1.92 | 44 | 51 | 2 | 121 | 95  | 785.00   |
| FU-9803C2 P2D | 24 VDC | 2.64 | 48 | 89 | 3 | 149 | 122 | 1 100.00 |

## Exhaust filter with rain hood - without fan used as an air outlet/inlet

- Match size of the filter/fan to achieve optimal ventilation within the cabinet

|            |   |   |                     |  |  |   |     |     |          |
|------------|---|---|---------------------|--|--|---|-----|-----|----------|
| FU9801B P2 | — | — | exhaust filter only |  |  | 1 | 109 | 83  | 533.00   |
| FU9802B P2 | — | — | exhaust filter only |  |  | 2 | 121 | 95  | 574.00   |
| FU9803B P2 | — | — | exhaust filter only |  |  | 3 | 149 | 122 | 664.00   |
| FU9804B P2 | — | — | exhaust filter only |  |  | 4 | 204 | 175 | 765.00   |
| FU9805B P2 | — | — | exhaust filter only |  |  | 5 | 255 | 223 | 1 190.00 |
| FU9806B P2 | — | — | exhaust filter only |  |  | 6 | 332 | 292 | 2 380.00 |

## Panel-mount fans



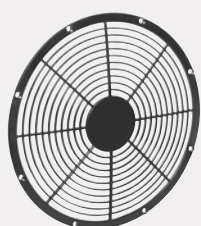
1238XA2BPT



1725XA3BPT



FU9805B P2/P5-220



SF825B



MG-80



SF8...

### Frame fans and accessories

- Temperature: -40°C...+60°C
- Shielded self lubricating ball bearing fans

| type               | voltage<br>(V) | power<br>(W) | noise<br>(dB/A) | air flow<br>(CFM) | dimensions (mm²)<br>size      □      (D) |           |    | price     |
|--------------------|----------------|--------------|-----------------|-------------------|------------------------------------------|-----------|----|-----------|
| AC frame fans only |                |              |                 |                   |                                          |           |    |           |
| 8025HA2BPT         | 230 VAC        | 14           | 30              | 19                | 1                                        | 80        | 25 | 2 970.00  |
| 9238HA2BPT         | 230 VAC        | 17           | 38              | 43                | 2                                        | 92        | 38 | 2 970.00  |
| 1238XA2BPT         | 230 VAC        | 20           | 40              | 93                | 3                                        | 120       | 38 | 3 190.00  |
| 1725XA2BPT         | 230 VAC        | 40           | 46              | 200               | 4                                        | 172 x 150 | 51 | 5 420.00  |
| 2206HA2BMT         | 230 VAC        | 47           | 60              | 450               | 5                                        | Ø 222     | 60 | 13 500.00 |
| 2509HA2BMW         | 230 VAC        | 57           | 64              | 670               | 6                                        | Ø 255     | 89 | 18 600.00 |
| 1238XA3BPT         | 380 VAC        | 18           | 40              | 96                | 3                                        | 120       | 38 | 3 560.00  |
| 1725XA3BPT         | 380 VAC        | 34           | 46              | 200               | 4                                        | 172 x 150 | 51 | 6 300.00  |
| 2206HA3BMW         | 380 VAC        | 42           | 60              | 450               | 5                                        | Ø 222     | 60 | 15 300.00 |
| 2509HA3BMW         | 380 VAC        | 52           | 64              | 670               | 6                                        | Ø 255     | 89 | 20 500.00 |

### DC frame fans - 24V DC (12...27.6 VDC)

|            |        |       |    |     |   |           |    |          |
|------------|--------|-------|----|-----|---|-----------|----|----------|
| 8025HD4BBL | 24 VDC | 0.80A | 41 | 56  | 1 | 80        | 25 | 964.00   |
| 9225HD4BBL | 24 VDC | 0.35A | 44 | 73  | 2 | 92        | 25 | 1 080.00 |
| 1225HD4BCL | 24 VDC | 0.80A | 44 | 100 | 3 | 120       | 25 | 1 380.00 |
| 1725HD4BAL | 24 VDC | 2.50A | 58 | 256 | 4 | 172 x 150 | 51 | 8 160.00 |

### Exhaust filter - without fan

IP55

- Match size of the filter/fan to achieve optimal ventilation within the cabinet

| type    | accepts<br>fan type | with<br>air duct | external<br>material |   | dimensions (mm <sup>2</sup> ) |       |        | price    |
|---------|---------------------|------------------|----------------------|---|-------------------------------|-------|--------|----------|
|         |                     |                  |                      |   | size                          | frame | cutout |          |
| SVF112H | 8025                | no               | UL94-V0              | — | 1/2                           | 109   | 92     | 1 190.00 |
| SVF113H | 1238                | no               | UL94-V0              | — | 3                             | 145   | 124    | 1 410.00 |
| SVF114H | 1725                | yes              | UL94-V0              | — | 4                             | 202   | 177    | 1 710.00 |
| SVF115H | 2206                | yes              | UL94-V0              | — | 5                             | 252   | 224    | 3 120.00 |
| SVF116H | 2509                | yes              | UL94-V0              | — | 6                             | 320   | 292    | 4 450.00 |

### All metallic version (ADC12 aluminium alloy material)

|          |       |   |       |   |   |     |     |          |
|----------|-------|---|-------|---|---|-----|-----|----------|
| FU9803AM | K1238 | — | metal | — | 3 | 149 | 122 | 1 700.00 |
|----------|-------|---|-------|---|---|-----|-----|----------|

### Panel mount filter units - with rain hood cover

IP55

|                   |      |        |       |   |   |     |     |          |
|-------------------|------|--------|-------|---|---|-----|-----|----------|
| FU9802B P2        | 9225 | —      | PC+UV | — | 2 | 121 | 95  | 574.00   |
| FU9803B P2        | 1238 | —      | PC+UV | — | 3 | 149 | 122 | 664.00   |
| FU9804B P2/P4-172 | 1725 | P4-172 | PC+UV | — | 4 | 204 | 175 | 837.00   |
| FU9805B P2/P5-220 | 2206 | P5-220 | PC+UV | — | 5 | 255 | 223 | 1 360.00 |
| FU9806B P2/P6-250 | 2509 | P6-250 | PC+UV | — | 6 | 332 | 292 | 2 600.00 |

### All metallic version (ADC12 aluminium alloy material)

|          |      |   |       |   |   |     |     |          |
|----------|------|---|-------|---|---|-----|-----|----------|
| FU9803BM | 1238 | — | metal | — | 3 | 149 | 122 | 3 390.00 |
|----------|------|---|-------|---|---|-----|-----|----------|

### Finger guards (internal) for fans

| type   | for fan | colour | material | description  | size | H   | W   | price  |
|--------|---------|--------|----------|--------------|------|-----|-----|--------|
| SF808B | 8025    | black  | ABS      | finger guard | 1    | 80  | 80  | 60.00  |
| SF809B | 9225    | black  | ABS      | finger guard | 2    | 92  | 92  | 60.00  |
| SF812B | 1238    | black  | ABS      | finger guard | 3    | 119 | 119 | 89.00  |
| SF817B | 1725    | black  | ABS      | finger guard | 4    | 172 | 151 | 149.00 |
| SF822B | 2206    | black  | ABS      | finger guard | 5    | 222 | Ø   | 223.00 |
| SF825B | 2509    | black  | ABS      | finger guard | 6    | 259 | Ø   | 297.00 |
| MG-80  | 8025    | chrome | metal    | finger guard | 1    | 75  | 75  | 75.00  |
| MG-92  | 9225    | chrome | metal    | finger guard | 2    | 89  | 89  | 75.00  |
| MG-120 | 1238    | chrome | metal    | finger guard | 3    | 115 | 115 | 112.00 |
| MG-172 | 1725    | chrome | metal    | finger guard | 4    | 162 | 139 | 149.00 |
| MG-220 | 2206    | chrome | metal    | finger guard | 5    | 212 | Ø   | 371.00 |
| MG-250 | 2509    | chrome | metal    | finger guard | 6    | 246 | Ø   | 519.00 |

### 3-in-1 econo filter - Comprising of frame, low density fabric filter and cover guard

|        |      |       |     |                   |   |     |     |        |
|--------|------|-------|-----|-------------------|---|-----|-----|--------|
| SF808A | 8025 | black | ABS | 3-in-1 air outlet | 1 | 85  | 85  | 149.00 |
| SF809A | 9225 | black | ABS | 3-in-1 air outlet | 2 | 96  | 96  | 149.00 |
| SF812A | 1238 | black | ABS | 3-in-1 air outlet | 3 | 125 | 125 | 223.00 |
| SF817A | 1725 | black | ABS | 3-in-1 air outlet | 4 | 177 | 156 | 445.00 |

## Panel-mount fans & heaters



TRT-10A230V-NO



TRT-10A230V-NC



IGR35F



FF12A230UF



FF12A230UF



FF20A230UE



HWM030



HTM060

### TRT series - Mechanical bimetal thermostats *(used to control temperatures within enclosures)*

Bimetal thermostats used to control temperatures inside enclosures. Suitable for different applications, available with closed-on-rise (NO) or open-on rise (NC) contact for regulation of heating and ventilation equipment or for switching signalling devices.

- Compact dimensions - (H) 68 x (W) 29 x (D) 45 mm
- Enclosure PA66 self-extinguishing to UL 94V-0
- DIN-rail mountable
- IP20 protected screw terminals
- Applied standards EN 60730-1, UL approved UL873 and C22.2

| type           | temperature<br>range | contact | description                     |             | price  |
|----------------|----------------------|---------|---------------------------------|-------------|--------|
| Thermostats 1  |                      |         |                                 |             |        |
| TRT-10A230V-NO | -10 - +80°C          | 1 x NO  | DIN-rail mount panel thermostat | (blue knob) | 294.00 |
| TRT-10A230V-NC | -10 - +80°C          | 1 x NC  | DIN-rail mount panel thermostat | (red knob)  | 292.00 |

### IGR series - Mechanical hygrostat

Mechanical hygrometers automatically regulate humidity inside enclosures, triggering a heater or fan when a preset relative humidity is exceeded. To prevent condensation on electric and electronic components the relative humidity is raised above the dew point.

|        |             |         |                                   |                 |
|--------|-------------|---------|-----------------------------------|-----------------|
| IGR35F | 10 - 90% RH | ch/over | DIN-rail mounting panel hygrostat | <b>1 330.00</b> |
|--------|-------------|---------|-----------------------------------|-----------------|

### Panel ventilation 2

#### FF series - Complete fan-filter units *(IP54)*

Compact design, snap-on mounting, integrated sealing gasket preventing dust and water penetration. Ideal for all panel ventilation applications.

- Complete fan with mounting frame, removable filter and metal finger guard
- Screwless mounting (*simply clips into panel cut-out*)
- Plastic parts self extinguishing to UL 94V-0
- Permanent sealing gasket in polyurethane foam
- Shielded self lubricating ball bearing fans
- Filter replaceable from the front removable grill

| type       | voltage (V) | power (W) | air flow (m³/h) | noise (dB/A) | description         |  | dimensions (mm²)<br>frame cutout |     | price           |
|------------|-------------|-----------|-----------------|--------------|---------------------|--|----------------------------------|-----|-----------------|
| FF08A230UN | 230 VAC     | 10        | 10              | 33           | complete fan filter |  | 107                              | 92  | <b>806.00</b>   |
| FF12A230UF | 230 VAC     | 18        | 45              | 49           | complete fan filter |  | 150                              | 124 | <b>830.00</b>   |
| FF15A230UF | 230 VAC     | 32        | 230             | 50           | complete fan filter |  | 250                              | 223 | <b>2 000.00</b> |
| FF20A230UE | 230 VAC     | 79        | 460             | 66           | complete fan filter |  | 325                              | 291 | <b>3 540.00</b> |

#### Outlet filter grill/frame *(without fan)*

|       |               |                                       |  |     |     |               |
|-------|---------------|---------------------------------------|--|-----|-----|---------------|
| FF08U | outlet/filter | separate panel mount ventilation unit |  | 107 | 92  | <b>217.00</b> |
| FF12U | outlet/filter | separate panel mount ventilation unit |  | 150 | 124 | <b>220.00</b> |
| FF15U | outlet/filter | separate panel mount ventilation unit |  | 250 | 223 | <b>420.00</b> |
| FF20U | outlet/filter | separate panel mount ventilation unit |  | 325 | 291 | <b>688.00</b> |

### Panel heaters *(anti-condensation)* 3 **15W - 400W**

For the thermo regulation of electrical cabinets. The heaters consist of a self-extinguishing PTC element in a black anodized aluminium DIN-rail mountable housing.

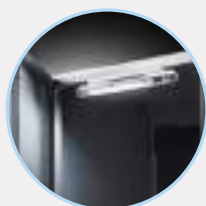
- Compact dimensions - DIN-rail mounting
- Self-regulating PTC resistance
- Screw terminal connection *(15/30W heaters supplied with 500 mm cable)*
- Voltage range: 110...250 VAC
- Complies with standards: IEC/EN 60335-1 and IEC 60004-1

| type   | heating power | current mA | description                 |  | dimensions (mm)<br>(H) (W) (D) |    |    | price           |
|--------|---------------|------------|-----------------------------|--|--------------------------------|----|----|-----------------|
| HWM015 | 15 W          | 65         | DIN-rail mount panel heater |  | 78                             | 28 | 49 | <b>829.00</b>   |
| HWM030 | 30 W          | 130        | DIN-rail mount panel heater |  | 108                            | 28 | 49 | <b>829.00</b>   |
| HTM060 | 60 W          | 260        | DIN-rail mount panel heater |  | 138                            | 62 | 85 | <b>1 160.00</b> |
| HTM100 | 100 W         | 475        | DIN-rail mount panel heater |  | 188                            | 62 | 85 | <b>1 490.00</b> |
| HTM150 | 150 W         | 770        | DIN-rail mount panel heater |  | 238                            | 62 | 85 | <b>1 690.00</b> |

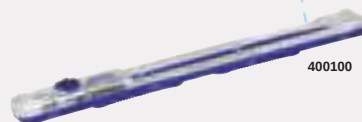
## Panel-mount fans & lamps



TP19U230B54



FLL-C3006UITB



400100

### TP series - Roof mount exhaust fan units ④

Roof exhaust fan units used to directly extract heat from the upper region of the cabinet facilitating effective internal air flow. Equipped with a high-head radial fan.

- Mounting via 8 x Ø4 mm screws (*mounts through 175 mm² cutout*)
- Plastic parts in PC/ABS alloy and aluminium self extinguishing to UL 94V-0
- Permanent sealing gasket in polyurethane foam
- Compact dimensions, height: total 94 mm / hood 62 mm
- Colour: RAL 7035 (*others colours available on request*)

| type                                 | voltage<br>(V) | power<br>(W) | air flow<br>(m³/h) | noise<br>(dB/A) | description      | dimensions (mm)<br>(H) (W) (D) |     |    | price           |
|--------------------------------------|----------------|--------------|--------------------|-----------------|------------------|--------------------------------|-----|----|-----------------|
| <b>Exhaust Fan (roof mount) IP24</b> |                |              |                    |                 |                  |                                |     |    |                 |
| <b>TP19U230B</b>                     | 230 VAC        | 70           | 500                | 68              | roof exhaust fan | 324                            | 324 | 94 | <b>3 340.00</b> |
| <b>Exhaust Fan (roof mount) IP54</b> |                |              |                    |                 |                  |                                |     |    |                 |
| <b>TP19U230B54</b>                   | 230 VAC        | 70           | 420                | 68              | roof exhaust fan | 324                            | 324 | 94 | <b>3 810.00</b> |

### LED Lamp for switchboards ⑤

During maintenance and inspection on switchboards it is essential for to have a good level of lighting LEDs provides effective illumination within electrical cabinets at significantly low consumption. Switching via a mounted switch or version with a PIR sensor which detects motion within 120° radius with delayed auto off with no detected presence.

| type | power | supply<br>voltage | description | dimensions (mm)<br>(H) (W) (D) |  |  | price |
|------|-------|-------------------|-------------|--------------------------------|--|--|-------|
|------|-------|-------------------|-------------|--------------------------------|--|--|-------|

#### Fandis FLL series - Panel lamps

Termination is via "push-in" cage clamp terminals on both sides with an incorporated release button. Magnetic fastening for simple positioning on metallic surfaces (*with optional magnet set*). Lamp rotates to six different positions on base (*max. to 40°*)

- LED light output: 600 lm (*luminous flux*), 120°, daylight, colour temperature 7100K
- Operating temp: -30 to +60°C
- Lifetime: 160000 h at 25°C

|                      |        |                                           |                            |    |     |    |                 |
|----------------------|--------|-------------------------------------------|----------------------------|----|-----|----|-----------------|
| <b>FLL-C3006USTB</b> | 5 Watt | 20...230V AC/DC                           | LED panel lamp with switch | 32 | 356 | 48 | <b>1 900.00</b> |
| <b>FLL-C3006UITB</b> | 5 Watt | 20...230V AC/DC                           | LED lamp with PIR sensor   | 32 | 356 | 48 | <b>1 830.00</b> |
| <b>FLL-2MA</b>       | magnet | magnet mounting kit for lamps (2 magnets) |                            |    |     |    | <b>158.00</b>   |

#### Seifert SL 4000 series - Panel lamps

Termination via 2 pin latching plug (*supplied separately*) on both ends of the lamp. Mounting is via supplied mounting clips or incorporated magnets for simple positioning on metallic surfaces.

|                      |        |                                       |                            |    |     |    |                 |
|----------------------|--------|---------------------------------------|----------------------------|----|-----|----|-----------------|
| <b>400100</b>        | 4 Watt | 24...265V AC/DC                       | LED panel lamp with switch | 32 | 350 | 28 | <b>1 510.00</b> |
| <b>400000</b>        | 4 Watt | 24...265V AC/DC                       | LED panel lamp with sensor | 32 | 350 | 33 | <b>1 800.00</b> |
| <b>91.921.3053.0</b> | white  | female connector plug for panel lamps |                            | 18 | 53  | 14 | <b>83.00</b>    |
| <b>91.922.3053.0</b> | white  | male connector plug for panel lamps   |                            | 18 | 53  | 14 | <b>77.00</b>    |

## Systems & components for enclosures



## Cabinet air conditioning



850600001



42740001



43050001



TG 3102-24V

## SlimLine Pro - 8500 series - Cabinet cooling units

SlimLine Pro series cabinet cooling air conditioners feature an innovative one man mounting system permitting screwless installation with maintenance free operation due to the eco-friendly filter-less construction. The compact, slim construction combined with modern design features provide excellent size to performance ratio to meet modern day requirements. Providing improved cooling performance ensuring total reliability in all industrial applications.

- Innovative mounting system (*screwless, one man mounting*)
- Simplified panel cutout (*ease mounting even further*)
- Integrated condensate evaporation
- Temperature range 10°C to 60°C
- Standard material powder coated mild steel housing RAL 7035 (*light grey*)
- Compliance to NEMA / UL type 3, 3R, 12, 4 und 4X.
- Can be mounted external or recessed (*with only 35-50 mm protruding*) into the panel

| type                              | cooling capacity<br>L35L35 | supply voltage | description           | dimensions (mm) |     |     |      | price             |
|-----------------------------------|----------------------------|----------------|-----------------------|-----------------|-----|-----|------|-------------------|
|                                   |                            |                |                       | (H)             | (W) | (D) | Ext. |                   |
| <b>SlimLine Pro - 8500 series</b> |                            |                | <b>IP56</b>           |                 |     |     |      |                   |
| <b>850600001</b>                  | 670 W                      | 230 VAC        | panel air conditioner | 600             | 250 | 135 | (25) | <b>38 300.00</b>  |
| <b>850800001</b>                  | 825 W                      | 230 VAC        | panel air conditioner | 950             | 305 | 210 | (35) | <b>45 000.00</b>  |
| <b>851200001</b>                  | 1.2 kW                     | 230 VAC        | panel air conditioner | 950             | 305 | 210 | (35) | <b>46 800.00</b>  |
| <b>851500001</b>                  | 1.5 kW                     | 230 VAC        | panel air conditioner | 1350            | 395 | 210 | (35) | <b>62 600.00</b>  |
| <b>852000001</b>                  | 2.0 kW                     | 230 VAC        | panel air conditioner | 1350            | 395 | 210 | (35) | <b>68 400.00</b>  |
| <b>852500001</b>                  | 2.5 kW                     | 230 VAC        | panel air conditioner | 1350            | 395 | 210 | (35) | <b>74 200.00</b>  |
| <b>854000001</b>                  | 4.0 kW                     | 230 VAC        | panel air conditioner | 1550            | 455 | 270 | (50) | <b>102 000.00</b> |

## SlimLine series - Filterless technology air conditioners

SlimLine series air conditioners provide maximum power-to-size ratio compatible with market standards ensuring simple integration with cabinet systems. Designed to operate with minimum maintenance, due to eco-friendly filter-less construction. Wide-ribbed aluminium condenser provides improved cooling performance ensuring total reliability in all industrial applications.

- Compressor type: Rotary piston compressor
- Mounting: Internal / External

|                 |        |         |                       |      |     |     |      |                  |
|-----------------|--------|---------|-----------------------|------|-----|-----|------|------------------|
| <b>42660001</b> | 320 W  | 230 VAC | panel air conditioner | 520  | 270 | 110 | (25) | <b>32 200.00</b> |
| <b>42700001</b> | 600 W  | 230 VAC | panel air conditioner | 810  | 395 | 145 | (25) | <b>47 000.00</b> |
| <b>42710001</b> | 820 W  | 230 VAC | panel air conditioner | 980  | 395 | 145 | (25) | <b>50 700.00</b> |
| <b>42720001</b> | 1100 W | 230 VAC | panel air conditioner | 1250 | 395 | 145 | (25) | <b>58 200.00</b> |
| <b>42740001</b> | 1500 W | 230 VAC | panel air conditioner | 1550 | 395 | 145 | (25) | <b>66 800.00</b> |

## SlimLine TOP series - Top mounted filterless air conditioners

- Compressor type: Rotary piston compressor

|                 |        |         |                            |     |     |     |   |                  |
|-----------------|--------|---------|----------------------------|-----|-----|-----|---|------------------|
| <b>45550001</b> | 1100 W | 230 VAC | roof mount air conditioner | 400 | 600 | 400 | — | <b>60 800.00</b> |
|-----------------|--------|---------|----------------------------|-----|-----|-----|---|------------------|

## ComPact series - Economical all-round systems

ComPact series air conditioners optimise high efficiencies with outstanding COP values throughout the range, the built-in controller displays temperature, operating status and can be simply adjusted. Surface treated condenser with high fin separation provide virtually maintenance free service.

- Operating temp. range: 20°C...55°C
- Compressor type: Reciprocating compressor
- Mounting: External mounting
- Colour: RAL 7035 (*other colours available on request*)

|                 |        |         |                       |     |     |     |   |                  |
|-----------------|--------|---------|-----------------------|-----|-----|-----|---|------------------|
| <b>43040001</b> | 320 W  | 230 VAC | panel air conditioner | 500 | 280 | 200 | — | <b>26 400.00</b> |
| <b>43050001</b> | 550 W  | 230 VAC | panel air conditioner | 650 | 315 | 260 | — | <b>28 400.00</b> |
| <b>43100001</b> | 1000 W | 230 VAC | panel air conditioner | 650 | 315 | 260 | — | <b>35 000.00</b> |
| <b>43150001</b> | 1500 W | 230 VAC | panel air conditioner | 980 | 395 | 260 | — | <b>44 900.00</b> |
| <b>43200001</b> | 2000 W | 230 VAC | panel air conditioner | 980 | 395 | 260 | — | <b>51 000.00</b> |

## TG series - Thermoelectric cooling units - for cooling enclosures or electronic components

Thermoelectric cooling units are an effective solution for the cooling of enclosures. Energy transferred heat without the use of hazardous gases or liquids. Thermoelectric modules (*Peltier modules*), permitting heat absorption from one side (*cold side*) and heat expulsion to the ambient from the other side.

- External or recessed mounting in almost any position (*except roof mounting*)
- Suitable for indoor and outdoor application, ingress protection rating of IP66
- Stainless steel AISI 304 (V2A)
  - Maintenance free
  - Easy installation

| type                                           | voltage<br>(V) | cooling power | rated current | cutout (mm) | dimensions (mm)                  |     |     | price            |
|------------------------------------------------|----------------|---------------|---------------|-------------|----------------------------------|-----|-----|------------------|
|                                                |                |               |               |             | (H)                              | (W) | (D) |                  |
| <b>SoliTherm Peltier - Panel cooling units</b> |                |               |               |             | Temperature range: -20°C...+65°C |     |     |                  |
| <b>TG 3102-24V</b>                             | 24 VDC         | 100W          | 4.8A          | 260 x 160   | 304                              | 200 | 138 | <b>22 800.00</b> |
| <b>TG 3200-24V</b>                             | 24 VDC         | 200W          | 9.0A          | 370 x 155   | 400                              | 180 | 171 | <b>34 700.00</b> |

## Notes



SCAME

VIA COSTA ERTA, 15  
24020 PARRE BG ITALY



3P+T-P44-16A-6h/380-415V~50/60Hz MADE IN ITALY 400