



## POWER

### PRODUCT CATALOGUE

**GEWISS**



2018  
2019



GEWISS is an international leader in the production of systems and components for low voltage electrical installations. The fact that development is seen as a constant management feature has permitted GEWISS to assert itself as a reference interlocutor for the electrotechnical market in the creation of solutions for domotics, energy and the lighting industry. It is now present in Italy, France, Germany, the United Kingdom, Spain, Portugal, China, Russia, Turkey, Romania, Chile, the United Arab Emirates, and in a further 80 countries around the world.



## POWER

The technologically advanced range of modular and moulded-case devices joins the vast range of distribution boards and cabinets, enclosures and combined boards to create the Gewiss Protection System.



## DOMOTICS

The domotic systems offer cutting-edge solutions for smart home and building management and control, guaranteeing safety, comfort and energy savings along with Italian design.



## BUILDING

Junction boxes and special containers, a complete and coordinated line of distribution boards, cutting-edge industrial connections and an integrated system of boards for special systems create the GEWISS distribution systems.



## LIGHTING

Lighting systems designed for every room, area and location. Solutions that embrace LED technology to meet the requirements of industrial and commercial sector contexts, sport facilities and emergency lighting.

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# GEWISS Protection System

The GEWISS protection system is made up of products that work together perfectly, such as the innovative 90 ReStart range (automatic reclosing devices), the 90 MCB and 90 RCD ranges (modular circuit breakers for circuit and residual current protection), the MTX range (MCCBs for power distribution) and the 47 CVX range (metal distribution boards). An integrated selection of products to meet every possible need for the specific application - from residential to industrial - and to guarantee quality and safety in line with the market requisites. The GEWISS system offers a wealth of advantages: practical compatibility of homogeneous products, simple and quick system planning, installation and maintenance, modern and stylish design.

## 90 ReStart



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## 90 MCB



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# Automatic reclosing devices

## 90 ReStart

RESTART WITH AUTOTEST



RESTART RD FOR RCCB



RESTART RM FOR RCBO



## Automatic Reclosing Devices ReStart

If the residual current device trips, **ReSTART** restores the electricity supply quickly, but only after carrying out a system check (**RD** versions) and also a short-circuit check (**RM** version).

Thanks to the innovative control logic, **Autotest** can regularly and automatically test the working of the residual current device **without ever disconnecting the system from the power supply**.

**PRO** versions are available for continuous system monitoring: the system check is carried out at regular intervals until the fault clears and the device can be automatically and safely reclosed.

The **ReSTART RM TOP** version is also available. This allows you to:

- establish the reclosing mode (with a system check, using attempts, or remote)
- select the insulation threshold
- set the reclosing time delay

*The only automatic reclosing device that tests the RCCB without cutting off the electricity supply*



ReSTART with AUTOTEST 2P



ReSTART with AUTOTEST 4P

ReStart 2P range



ReSTART RD



ReSTART RD PRO



ReSTART RM



ReSTART RM PRO

ReStart 4P range



ReSTART RD PRO



ReSTART RM PRO



ReSTART RM TOP



ReSTART CM

NOTE: ReSTART CM is a motor operating device without system check

| CHARACTERISTICS AND ADVANTAGES  |  | ReSTART Autotest |            | ReSTART <b>RD</b> |            | ReSTART <b>RM</b> |            |            |
|---|--|------------------|------------|-------------------|------------|-------------------|------------|------------|
|   |  | Standard         | <b>PRO</b> | Standard          | <b>PRO</b> | Standard          | <b>PRO</b> | <b>TOP</b> |
|    | <p><b>Reclose, but in total safety</b></p> <p>The ReSTART devices restore the power supply only after checking there are no faults in the system. This means a guarantee of safety for people and property, avoiding any risk of electric shock.</p>   | ✓                | ✓          | ✓                 | ✓          | ✓                 | ✓          | ✓(*)       |
|    | <p><b>Practical installation, everywhere</b></p> <p>All ReSTART devices work without an earth wire (domestic switchboards don't always include them) so they can be installed in existing domestic switchboards.</p>   | ✓                | ✓          | ✓                 | ✓          | ✓                 | ✓          | ✓          |
|    | <p><b>Continuous control, immediate reclosing</b></p> <p>Once the circuit breaker has tripped because of a fault, ReSTART PRO continues to monitor the system every 2 minutes until safety conditions are restored, and then it enables the automatic reclosing of the circuit breaker.</p>            |                  | ✓          |                   | ✓          |                   | ✓          | ✓(**)      |
|   | <p><b>Self-diagnosis on a continuous cycle</b></p> <p>ReSTART Autotest regularly tests the residual current device automatically. This ensures the residual current device is highly efficient, even in the long term.</p>   | ✓                | ✓          |                   |            |                   |            |            |
|  | <p><b>No loss of power</b></p> <p>ReSTART Autotest regularly tests the residual current device without disconnecting voltage to the system, thanks to a special bypass circuit patented by GEWISS. This avoids the inconvenience caused by power failure or voltage drops.</p>                         | ✓                | ✓          |                   |            |                   |            |            |
|  | <p><b>Safety under control, from one single point</b></p> <p>The ReSTART devices can be integrated in a MODBUS RS485 data network thanks to the connection with the GEWISS BUS interface, allowing all the ReSTART functions to be centrally managed via the network.</p>                              | ✓                | ✓          |                   | ✓          |                   | ✓          |            |
|  | <p><b>A contact that always warns you in the event of a fault</b></p> <p>An auxiliary contact associated with ReSTART allows any system fault to be recognised by means of a sound or light signal. A failed reclosing operation can also be signalled by a text message.</p>                          | ✓                | ✓          |                   | ✓          |                   | ✓          | ✓          |
|  | <p><b>The system close to hand, everywhere.</b></p> <p>Thanks to a WiFi interface, ReSTART can be connected to the Internet so you can see the condition of the system at any time. All it takes is a smartphone or a tablet to check the ReSTART status from a distance.</p>                          | ✓                | ✓          |                   | ✓          |                   | ✓          |            |
|  | <p><b>More compact, meaning reduced overall dimensions in the enclosure.</b></p> <p>The overall dimensions of the ReSTART devices have been reduced. The solution for single-phase systems takes up just one module, guaranteeing a wide range of installation possibilities within the enclosure.</p> |                  |            | ✓                 | ✓          | ✓                 | ✓          |            |

(\*) It's possible to choose the automatic reclosing mode: • with a system check • by attempts • remote

(\*\*) It's possible to set the automatic reclosing time delay.

(\*\*\*) For 4P versions only

# 90 ReStart AUTOMATIC RECLOSING DEVICES

| RESTART RANGE<br>MAIN TECHNICAL DATA          | RESTART Autotest                |                                 | RESTART <b>RD</b>    |   | RESTART <b>RM</b>  |   |                                 |
|---|---------------------------------|---------------------------------|----------------------|---|--------------------|---|---------------------------------|
|   | STANDARD version                | PRO version                     | STANDARD version     | PRO version   | STANDARD version   | PRO version   | TOP version                     |
| Circuit breaker type:                         | IDP                             |                                 | IDP                  |   | MDC                |   | MT - MTC<br>MDC - MT+BD         |
| Number of poles:                              | 2P                              | 2P-4P                           | 2P                   | 2P - 4P   | 1P+N, 2P           | 1P+N - 2P - 4P  | 1P - 1P+N - 2P - 3P - 4P        |
| RCD type:                                     | A [IR]                          | A[IR]                           | AC, A, A[IR], A[S]   |   | AC, A, A[IR], A[S] |   | AC, A, A[IR], A[S]              |
| No. of modules<br>(circuit breaker included)  | 5                               | 5 (2 poles)<br>7 (4 poles)      | 1*                   | 1 (2 poles)*<br>3 (4 poles)*  | 1*                 | 1 (2 poles)*<br>3 (4 poles)*  | 3*                              |
| Residual operating current I $\Delta$ n: (mA) | 30                              | 30-300                          | 30 - 100 - 300 - 500 |   | 30 - 100 - 300     |   | 30-100-300-500                  |
| Breaking capacity I <sub>cn</sub> : (kA)      | -                               | -                               | -                    | -   | 4.5 - 6 - 10       |   | 4.5 ÷ 25                        |
| Rated current I <sub>n</sub> : (A)            | 25 ÷ 63                         |                                 | 25 ÷ 100             |   | 6 ÷ 32             |   | 1 ÷ 63                          |
| Coupled versions with circuit breaker:        | ✓                               | ✓                               |                      |   |                    |   |                                 |
| Auxiliary contact:                            | ✓<br>(Integrated inside device) | ✓<br>(Integrated inside device) |                      | ✓<br>(2 poles: with GWD0951)<br>(4 poles: integrated inside device) |                    | ✓<br>(2 poles: with GWD0951)<br>(4 poles: integrated inside device) | ✓<br>(Integrated inside device) |
| Adjustable reclosing time:                    |                                 |                                 |                      |   |                    |   | ✓                               |
| Adjustable reclosing mode:                    |                                 |                                 |                      |   |                    |   | ✓                               |

MT: MCB MTC: compact MCB MDC: compact RCBO IDP: RCCB BD: add-on RCD



\* Without circuit breaker

NOTE: type A[IR] offers greater resistance to mains disturbance and atmospheric discharge compared with standard RCDs. Immunity level 8/20 $\mu$ s: 3000A for A[IR] version, 250A for standard version.

## RESTART WITH AUTOTEST

### SELECTION TABLES

Automatic reclosing devices with preventive check of the insulation and automatic test of the residual current circuit breaker.

| I <sub>n</sub> (A) | COUPLED VERSIONS WITH RCCB'S  |                  |   |                       |
|--------------------|---|------------------|---|-----------------------|
|                    | ATR2 - 2 poles  |                  | ATR4 - 4 poles  |                       |
|                    | 5 mod.  |                  | 7 mod.  |                       |
|                    |  |                  |  |                       |
|                    | I $\Delta$ n = 30 mA  |                  | I $\Delta$ n = 30 mA  | I $\Delta$ n = 300 mA |
|                    | A[IR] type  | A[IR] - PRO type | A[IR] - PRO type  |                       |
| 25                 | GW 90 901 N   | GW 90 911        | GW 90 921   | GW 90 927             |
| 40                 | GW 90 902 N   | GW 90 912        | GW 90 922   | GW 90 928             |
| 63                 | -   | GW 90 913        | GW 90 923   | GW 90 929             |



NOTE: ARD must be supplied with 230 V AC phase-neutral for working.










## RESTART RD

### Selection tables

Automatic reclosing devices with preventive check of the insulation

|               | COUPLED VERSIONS WITH RCCB'S IDP  |   |
|---------------|---|---|
|               | RD2 - 2 poles   | RD2 - 2 poles, PRO version  |
|               | 3 mod.  |   |
|               |  |  |
|               | IΔn = 30 mA   |   |
| <b>In (A)</b> | <b>A type</b>   |   |
| 25            | GW D4 817 R   | GW D4 817 P   |
| 40            | GW D4 827 R   | GW D4 827 P   |

|        | VERSIONS TO BE COUPLED WITH RCCB'S IDP  |   |  |              |   |   |              |                          |              |
|--------|---|---|--|--------------|---|---|--------------|--------------------------|--------------|
|        | RD2 - 2 poles   | RD2 - 2 poles, PRO version  |  |              | RD4 - 4 poles, PRO version  |   |              |                          |              |
|        |   |   |  |              |   |   |              |                          |              |
|        | GW D0 971   | GW D0 976   | GW D0 978  |              | GW 90 967   | GW 90 969   |              |                          |              |
|        | 1 mod.  | 1 mod.  |  |              |   | 3 mod.  |              |                          |              |
|        | +   | +   | +  |              | +   | +   |              |                          |              |
|        | RCCB'S IDP 2P   |   |  |              | RCCB'S IDP 4P   |   |              |                          |              |
|        | 2 mod.  |   |  |              | 4 mod.  |   |              |                          |              |
|        |  |  |  |              |  |  |              |                          |              |
| In (A) | Type  | IΔn = 30 mA   | IΔn = 100 mA   | IΔn = 300 mA | IΔn = 500 mA  | IΔn = 30 mA   | IΔn = 100 mA | IΔn = 300 mA             | IΔn = 500 mA |
| 25     | AC  | GW D4 002<br>GW D4 617*   | GW D4 003  | GW D4 004    | -   | GW D4 102<br>GW D4 302**  | GW D4 103    | GW D4 104<br>GW D4 304** | -            |
|        | A   | GW D4 012<br>GW D4 817*   | GW D4 013  | GW D4 014    | -   | GW D4 112<br>GW D4 312**  | GW D4 113    | GW D4 114<br>GW D4 314** | -            |
|        | A[IR]   | GW D4 202   | -  | -            | -   | GW D4 217<br>GW D4 317**  | -            | GW D4 218                | -            |
| 40     | AC  | GW D4 022<br>GW D4 627*   | GW D4 023  | GW D4 024    | GW D4 025   | GW D4 122<br>GW D4 322**  | GW D4 123    | GW D4 124<br>GW D4 324** | GW D4 125    |
|        | A   | GW D4 032<br>GW D4 827*   | GW D4 033  | GW D4 034    | GW D4 035   | GW D4 132<br>GW D4 332**  | GW D4 133    | GW D4 134<br>GW D4 334** | GW D4 135    |
|        | A[IR]   | GW D4 205   | -  | -            | -   | GW D4 220<br>GW D4 337**  | -            | GW D4 221                | -            |
|        | A[S]  | -   | -  | GW D4 234    | GW D4 235   | -   | -            | GW D4 249                | GW D4 250    |
| 63     | AC  | GW D4 042   | GW D4 043  | GW D4 044    | GW D4 045   | GW D4 142<br>GW D4 342**  | GW D4 143    | GW D4 144<br>GW D4 344** | GW D4 145    |
|        | A   | GW D4 052   | GW D4 053  | GW D4 054    | GW D4 055   | GW D4 152<br>GW D4 352**  | GW D4 153    | GW D4 154<br>GW D4 354** | GW D4 155    |
|        | A[IR]   | GW D4 208   | -  | -            | -   | GW D4 223<br>GW D4 357**  | -            | GW D4 224                | -            |
|        | A[S]  | -   | -  | GW D4 237    | GW D4 238   | -   | -            | GW D4 252                | GW D4 253    |
| 80     | AC  | GW D4 062   | GW D4 063  | GW D4 064    | -   | GW D4 162<br>GW D4 362**  | GW D4 163    | GW D4 164<br>GW D4 364** | -            |
|        | A   | GW D4 072   | GW D4 073  | GW D4 074    | -   | GW D4 172   | GW D4 173    | GW D4 174                | -            |
|        | A[S]  | -   | -  | GW D4 240    | -   | -   | -            | GW D4 255                | -            |
| 100    | AC  | GW D4 082   |  | GW D4 084    | -   | GW D4 182<br>GW D4 382**  | GW D4 183    | GW D4 184<br>GW D4 384** | GW D4 185    |
|        | A   | GW D4 092   | GW D4 093  | GW D4 094    | -   | GW D4 192   | GW D4 193    | GW D4 194                | GW D4 195    |
|        | A[IR]   | GW D4 211   | -  | -            | -   | GW D4 226   | -            | GW 94 227                | -            |
|        | A[S]  | -   | -  | GW D4 243    | GW D4 244   | -   | -            | GW D4 258                | GW D4 259    |

NOTE ARD must be supplied with 230 V AC phase-neutral for working GW90967 and GW90969 ARDs can be coupled with RCCB's IDP 2 poles

\* Accessories not available



\*\*RCCB with Neutral on the left





# 90 ReStart AUTOMATIC RECLOSING DEVICES

## RESTART RM

### Selection tables

Automatic reclosing devices with preventive check of the insulation and of the short circuit





|         |       |        | COUPLED VERSIONS WITH RCBO'S MDC  |   |
|---------|-------|--------|---|---|
|         |       |        | RM2 - 2 poles   | RM2 - 2 poles, PRO version  |
|         |       |        | 3 mod.  |   |
|         |       |        |  |  |
|         |       |        | IΔn = 30 mA   |   |
| Icn (A) | Curve | In (A) | A type  |   |
| 4500    | C     | 16     | GW D4 227 R   | GW D4 227 P   |
|         |       | 25     | GW D4 229 R   | GW D4 229 P   |

|         |       |        | VERSIONS TO BE COUPLED WITH RCBO'S MDC 2 POLES                                      |   |                            |              |            |           |           |           |           |           |
|---------|-------|--------|---|---|----------------------------|--------------|------------|-----------|-----------|-----------|-----------|-----------|
|         |       |        | RM2 - 2 poles   |   | RM2 - 2 poles, PRO version |              |            |           |           |           |           |           |
|         |       |        |   |   |                            |              |            |           |           |           |           |           |
|         |       |        | GW D0 991   | GW D0 996   | GW D0 998                  |              |            |           |           |           |           |           |
|         |       |        | 1 mod.  | 1 mod.  |                            |              |            |           |           |           |           |           |
|         |       |        | +   | +   | +                          |              |            |           |           |           |           |           |
|         |       |        | RCBO'S MDC 1P+N, 2P   |   |                            |              |            |           |           |           |           |           |
|         |       |        | 2 mod.  |   |                            |              |            |           |           |           |           |           |
|         |       |        |  |  |                            |              |            |           |           |           |           |           |
|         |       |        | IΔn = 30 mA   |   |                            | IΔn = 300 mA |            |           |           |           |           |           |
| Icn (A) | Curve | In (A) | AC type   |   | A type                     |              | A[IR] type | AC type   |           | A type    |           | A[S] type |
|         |       |        | 1P+N  | 2P  | 1P+N                       | 2P           | 2P         | 1P+N      | 2P        | 1P+N      | 2P        | 2P        |
| 4500    | C     | 6      | GW 94 005   | GW 94 025   | GW 94 205                  | GW 94 225    | -          | GW 94 015 | GW 94 035 | GW 94 215 | GW 94 235 | -         |
|         |       | 10     | GW 94 006   | GW 94 026   | GW 94 206                  | GW 94 226    | -          | GW 94 016 | GW 94 036 | GW 94 216 | GW 94 236 | -         |
|         |       | 13     | GW 94 011   | GW 94 031   | GW 94 211                  | GW 94 231    | -          | -         | -         | -         | -         | -         |
|         |       | 16     | GW 94 007   | GW 94 027   | GW 94 207                  | GW 94 227    | -          | GW 94 017 | GW 94 037 | GW 94 217 | GW 94 237 | -         |
|         |       | 20     | GW 94 008   | GW 94 028   | GW 94 208                  | GW 94 228    | -          | GW 94 018 | GW 94 038 | GW 94 218 | GW 94 238 | -         |
|         |       | 25     | GW 94 009   | GW 94 029   | GW 94 209                  | GW 94 229    | -          | GW 94 019 | GW 94 039 | GW 94 219 | GW 94 239 | -         |
|         |       | 32     | GW 94 010   | GW 94 030   | GW 94 210                  | GW 94 230    | -          | GW 94 020 | GW 94 040 | GW 94 220 | GW 94 240 | -         |
| 6000    | C     | 6      | GW 94 105   | GW 94 125   | GW 94 305                  | GW 94 325    | GW 95 805  | GW 94 115 | GW 94 135 | GW 94 315 | GW 94 335 | -         |
|         |       | 10     | GW 94 106   | GW 94 126   | GW 94 306                  | GW 94 326    | GW 95 806  | GW 94 116 | GW 94 136 | GW 94 316 | GW 94 336 | -         |
|         |       | 13     | GW 94 111   | GW 94 131   | GW 94 311                  | GW 94 331    | GW 95 811  | -         | -         | -         | -         | -         |
|         |       | 16     | GW 94 107   | GW 94 127   | GW 94 307                  | GW 94 327    | GW 95 807  | GW 94 117 | GW 94 137 | GW 94 317 | GW 94 337 | GW 95 847 |
|         |       | 20     | GW 94 108   | GW 94 128   | GW 94 308                  | GW 94 328    | GW 95 808  | GW 94 118 | GW 94 138 | GW 94 318 | GW 94 338 | GW 95 848 |
|         |       | 25     | GW 94 109   | GW 94 129   | GW 94 309                  | GW 94 329    | GW 95 809  | GW 94 119 | GW 94 139 | GW 94 319 | GW 94 339 | GW 95 849 |
|         |       | 32     | GW 94 110   | GW 94 130   | GW 94 310                  | GW 94 330    | GW 95 810  | GW 94 120 | GW 94 140 | GW 94 320 | GW 94 340 | GW 95 850 |
|         | B     | 6      | -   | -   | GW 95 105                  | GW 95 125    | -          | -         | -         | GW 95 115 | GW 95 135 | -         |
|         |       | 10     | -   | -   | GW 95 106                  | GW 95 126    | -          | -         | -         | GW 95 116 | GW 95 136 | -         |
|         |       | 13     | -   | -   | GW 95 111                  | GW 95 131    | -          | -         | -         | -         | -         | -         |
|         |       | 16     | -   | -   | GW 95 107                  | GW 95 127    | -          | -         | -         | GW 95 117 | GW 95 137 | -         |
|         |       | 20     | -   | -   | GW 95 108                  | GW 95 128    | -          | -         | -         | GW 95 118 | GW 95 138 | -         |
|         |       | 25     | -   | -   | GW 95 109                  | GW 95 129    | -          | -         | -         | GW 95 119 | GW 95 139 | -         |
|         |       | 32     | -   | -   | GW 95 110                  | GW 95 130    | -          | -         | GW 95 120 | GW 95 140 | -         |           |

NOTE: ARD must be supplied with 230 V AC phase-neutral for working.

## Selection tables

Automatic reclosing devices with preventive check of the insulation and of the short circuit

| VERSIONS TO BE COUPLED WITH RCBO'S MDC 4 POLES |       |        |   |           |              |   |           |           |
|--|-------|--------|---|-----------|--------------|---|-----------|-----------|
| RM4 - 4 poles, PRO version                     |       |        |   |           |              |   |           |           |
|  |       |        |  |           |              |  |           |           |
|  |       |        | <b>GW 90 986</b>  |           |              | <b>GW 90 988</b>  |           |           |
|  |       |        | 3 mod.  |           |              | 3 mod.  |           |           |
|  |       |        | +   |           |              | +   |           |           |
| RCBO'S MDC 4P                                  |       |        |   |           |              |   |           |           |
|  |       |        | 4 mod.  |           |              | 4 mod.  |           |           |
|  |       |        |  |           |              |  |           |           |
| IΔn = 30 mA                                    |       |        |   |           | IΔn = 300 mA |   |           |           |
| Icn (A)  | Curve | In (A) | AC type   | A type    | A[IR] type   | AC type   | A type    | A[S] type |
| 4500   | C     | 6      | GW 94 065   | GW 94 265 | -            | GW 94 075   | GW 94 275 | -         |
|  |       | 10     | GW 94 066   | GW 94 266 | -            | GW 94 076   | GW 94 276 | -         |
|  |       | 13     | GW 94 071   | GW 94 271 | -            | -   | -         | -         |
|  |       | 16     | GW 94 067   | GW 94 267 | -            | GW 94 077   | GW 94 277 | -         |
|  |       | 20     | GW 94 068   | GW 94 268 | -            | GW 94 078   | GW 94 278 | -         |
|  |       | 25     | GW 94 069   | GW 94 269 | -            | GW 94 079   | GW 94 279 | -         |
|  |       | 32     | GW 94 070   | GW 94 270 | -            | GW 94 080   | GW 94 280 | -         |
| 6000   | C     | 6      | GW 94 165   | GW 94 365 | GW 95 815    | GW 94 175   | GW 94 375 | -         |
|  |       | 10     | GW 94 166   | GW 94 366 | GW 95 816    | GW 94 176   | GW 94 376 | -         |
|  |       | 13     | GW 94 171   | GW 94 371 | GW 95 821    | -   | -         | -         |
|  |       | 16     | GW 94 167   | GW 94 367 | GW 95 817    | GW 94 177   | GW 94 377 | GW 95 857 |
|  |       | 20     | GW 94 168   | GW 94 368 | GW 95 818    | GW 94 178   | GW 94 378 | GW 95 858 |
|  |       | 25     | GW 94 169   | GW 94 369 | GW 95 819    | GW 94 179   | GW 94 379 | GW 95 859 |
|  |       | 32     | GW 94 170   | GW 94 370 | GW 95 820    | GW 94 180   | GW 94 380 | GW 95 860 |
|  | B     | 6      | -   | GW 95 165 | -            | -   | GW 95 175 | -         |
|  |       | 10     | -   | GW 95 166 | -            | -   | GW 95 176 | -         |
|  |       | 13     | -   | GW 95 171 | -            | -   | -         | -         |
|  |       | 16     | -   | GW 95 167 | -            | -   | GW 95 177 | -         |
|  |       | 20     | -   | GW 95 168 | -            | -   | GW 95 178 | -         |
|  |       | 25     | -   | GW 95 169 | -            | -   | GW 95 179 | -         |
|  |       | 32     | -   | GW 95 170 | -            | -   | GW 95 180 | -         |




NOTE: they are also compatible with RCBO's 1P+N and 2 poles (MDC 1P+N e 2P).  
ARD must be supplied with 230 V AC phase-neutral for working.

# 90 ReStart AUTOMATIC RECLOSING DEVICES

## RESTART RM TOP

### Selection tables

Automatic reclosing device with/without circuit safety and/or short-circuit check.

| DEVICES TO BE COUPLED WITH MCBs AND ADD-ON RCDs 4 POLES                             |          |              |               |               |           |
|---|----------|--------------|---------------|---------------|-----------|
|    |          |              |               |               |           |
| <b>GW 90 893</b>  |          |              |               |               |           |
| 4 mod.  |          |              |               |               |           |
| +   |          |              |               |               |           |
| <b>MCB MT 4 POLES</b>   |          |              |               |               |           |
| 4 mod.  |          |              |               |               |           |
|    |          |              |               |               |           |
| Curve   | In (A)   | Icn = 6000 A | Icn = 10000 A | Icn = 25000 A |           |
| C   | 1        | GW 92 081    | -             | -             |           |
|   | 2        | GW 92 082    | -             | -             |           |
|   | 3        | GW 92 083    | -             | -             |           |
|   | 4        | GW 92 084    | -             | -             |           |
|   | 6        | GW 92 085    | GW 92 685     | GW 92 885     |           |
|   | 10       | GW 92 086    | GW 92 686     | GW 92 886     |           |
|   | 13       | GW 92 094    | GW 92 694     | -             |           |
|   | 16       | GW 92 087    | GW 92 687     | GW 92 887     |           |
|   | 20       | GW 92 088    | GW 92 688     | GW 92 888     |           |
|   | 25       | GW 92 089    | GW 92 689     | GW 92 889     |           |
|   | 32       | GW 92 090    | GW 92 690     | GW 92 890     |           |
|   | 40       | GW 92 091    | GW 92 691     | GW 92 891     |           |
|   | 50       | GW 92 092    | GW 92 692     | GW 92 892     |           |
| B   | 63       | GW 92 093    | GW 92 693     | GW 92 893     |           |
|   | 6        | GW 92 285    | GW 92 585     | -             |           |
|   | 10       | GW 92 286    | GW 92 586     | -             |           |
|   | 13       | GW 92 294    | GW 92 587     | -             |           |
|   | 16       | GW 92 287    | GW 92 588     | -             |           |
|   | 20       | GW 92 288    | GW 92 589     | -             |           |
|   | 25       | GW 92 289    | GW 92 590     | -             |           |
|   | 32       | GW 92 290    | GW 92 591     | -             |           |
|   | 40       | GW 92 291    | GW 92 592     | -             |           |
|   | 50       | GW 92 292    | GW 92 593     | -             |           |
|   | 63       | GW 92 293    | GW 92 594     | -             |           |
|   | D        | 1            | -             | GW 92 781     | -         |
|   |          | 2            | -             | GW 92 782     | -         |
| 3   |          | -            | GW 92 783     | -             |           |
| 4   |          | -            | GW 92 784     | -             |           |
| 6   |          | GW 92 485    | GW 92 785     | -             |           |
| 10  |          | GW 92 486    | GW 92 786     | -             |           |
| 13  |          | GW 92 494    | GW 92 794     | -             |           |
| 16  |          | GW 92 487    | GW 92 787     | -             |           |
| 20  |          | GW 92 488    | GW 92 788     | -             |           |
| 25  |          | GW 92 489    | GW 92 789     | -             |           |
| 32  |          | GW 92 490    | GW 92 790     | -             |           |
| 40  |          | GW 92 491    | GW 92 791     | -             |           |
| +   |          |              |               |               |           |
| ADD-ON RESIDUAL CURRENT DEVICE BD 4 POLES   |          |              |               |               |           |
| 3.5 mod.  |          |              |               |               |           |
|  |          |              |               |               |           |
| In (A)  | IΔn (mA) | AC type      | A type        | A[IR] type    | A[S] type |
| ≤25   | 30       | GW 94 422    | GW 94 522     | -             | -         |
|   | 300      | GW 94 423    | GW 94 523     | -             | -         |
|   | 500      | GW 94 424    | GW 94 524     | -             | -         |
| ≤63   | 30       | GW 94 432    | GW 94 532     | GW 94 586     | -         |
|   | 300      | GW 94 433    | GW 94 533     | -             | GW 94 583 |
|   | 500      | GW 94 434    | GW 94 534     | -             | -         |
|   | 1000     | -            | -             | -             | GW 94 585 |

NOTE: they are also compatible with MTC MCBs, MDC RCB0s, MT MCBs and BD add-on RCDs 1P+N, 2 and 3 poles.  
ARD must be supplied with 230 V AC phase-neutral for working.

## RESTART WITH AUTOTEST

### Technical data

| TYPE   | ReSTART WITH AUTOTEST 2P          | ReSTART WITH AUTOTEST PRO 2P  | ReSTART WITH AUTOTEST PRO 4P   |
|--|-----------------------------------|---|--------------------------------|
|  |                                   |   |                                |
| <b>Electrical characteristics</b>  |                                   |   |                                |
| Standards:   | EN 50557, EN 61008-1              |   |                                |
| Distribution system:   | TT - TN-S                         |   |                                |
| Rated operational voltage (Ue):  | 230 AC <sup>(1)</sup>             |   | 400 AC                         |
| Minimum operating voltage (min Ue):  |                                   | 85% Ue  |                                |
| Maximum operating voltage (max Ue):  |                                   | 110% Ue   |                                |
| Rated insulation voltage (Ui):   |                                   | 500   |                                |
| Dielectric strength test voltage between pole and earth:                   |                                   | 2500 AC for 1 minute  |                                |
| Rated impulse withstand voltage (Uimp):                                    |                                   | 4   |                                |
| Overvoltage category:  |                                   | III   |                                |
| Rated frequency:   |                                   | 50  |                                |
| Residual making and breaking capacity (IΔm):                               |                                   | 630   |                                |
| Rated conditional residual short-circuit current with fuse (IΔc):          |                                   | 10000 (gL 63A) for In=25-40A<br>10000 (gL 80A) for In=63A                                   |                                |
| Number of poles:   | 2                                 |   | 4                              |
| Type of associated residual current circuit breaker:                       |                                   | A[IR]   |                                |
| Rated current (In):  | 25 - 40                           |   | 25 - 40 - 63                   |
| Rated residual operating current (IΔn):                                    |                                   | 30  | 30 - 300                       |
| Rated non-operating resistance between live parts and earth (Rdo):         | 20                                | 8   | 8 (30mA) - 2.5 (300mA)         |
| Rated operating resistance between live parts and earth (Rd):              | 70                                | 16  | 16 (30mA) - 5 (300mA)          |
| Power loss at In:  | 2.2 (25A) - 5.4 (40A) - 6.2 (63A) |   | 3.5 (25A) - 6 (40A) - 12 (63A) |
| Off-load absorbed power:   |                                   | 4 (cosφ=0.2)  |                                |
| Power absorbed during automatic reclosing:                                 |                                   | 41 (cosφ=0.5)   |                                |
| Power supply:  |                                   | from above  |                                |
| <b>Mechanical characteristics</b>  |                                   |   |                                |
| Width in DIN modules:  | 5                                 |   | 7                              |
| Reclosing time:  |                                   | 10  |                                |
| Autotest cycle time:   |                                   | 7   |                                |
| Maximum operational frequency:   |                                   | 30  |                                |
| Max mechanical endurance (total no. operations):                           |                                   | 4000  |                                |
| Maximum no. of consecutive automatic reclosure operations <sup>(2)</sup> : |                                   | 3   |                                |
| Counter reset time no. of consecutive automatic reclosure operations:      |                                   | 60  |                                |
| Section of circuit breaker terminals:                                      |                                   | flexible cable: ≤ 1x35 - ≤ 2x16 - ≤ 1x16+2x10<br>rigid cable: ≤ 1x35 - ≤ 2x16 - ≤ 1x16+2x10 |                                |
| Rated tightening torque:   |                                   | 2   |                                |
| Mounting position:   |                                   | any   |                                |
| Degree of protection:  |                                   | IP20 (terminals) - IP40 (front)   |                                |
| Pollution degree:  |                                   | 2   |                                |
| Operating temperature:   | -25 +40                           |   | -25 +60 <sup>(3)</sup>         |
| Stocking temperature:  |                                   | -40 +70   |                                |
| Tropicalization:   |                                   | 55°C - RH 95%   |                                |
| <b>Auxiliary contact characteristics</b>                                   |                                   |   |                                |
| Type of contact:   |                                   | Photomos (potential free contact)   |                                |
| Operating voltage:   |                                   | 5-230 AC/DC   |                                |
| Operating current:   |                                   | 0.6 (min) - 100 cosφ=1 (max)  |                                |
| Operating frequency:   |                                   | 50  |                                |
| Category of use:   |                                   | AC12  |                                |
| Operating mode:  |                                   | NO / NC / NC + impulse <sup>(4)</sup>   |                                |
| Terminal section:  |                                   | ≤ 2.5   |                                |
| Rated tightening torque:   |                                   | 0.4   |                                |
| <b>Autotest function</b>   |                                   |   |                                |
| Regular and automatic RCCB test:   | •                                 | •   | •                              |
| Light signalling for autotest cycle in progress:                           | •                                 | •   | •                              |
| Light signalling for any device anomaly:                                   | •                                 | •   | •                              |
| <b>ReStart function</b>  |                                   |   |                                |
| Automatic reclosure for untimely tripping:                                 | •                                 | •   | •                              |
| Earth leakage check:   | •                                 | •   | •                              |
| Continuous system check:   | •                                 | •   | •                              |
| Interruption of reclosure operation in the event of a fault:               | •                                 | •   | •                              |
| Signalling of reclosure operation in progress:                             | •                                 | •   | •                              |
| Light signalling of failure:   | •                                 | •   | •                              |
| Activation / exclusion of ReStart function:                                | •                                 | •   | •                              |
| Auxiliary contact for remote operating status access:                      | •                                 | •   | •                              |
| Internal electrical protection:  | PTC                               | PTC   | PTC                            |

<sup>(1)</sup> Power supply 230V phase-neutral




<sup>(2)</sup> In the absence of a system fault

<sup>(3)</sup> Average daily temperature ≤ +35°C

<sup>(4)</sup> Choosing NC + impulse option, auxiliary contact switches for 100ms at the end of each cycle of Autotest carried out successfully.

## RESTART RD

### Technical data

| TYPE   | ReSTART Rd 2P   | ReSTART Rd PRO 2P   | ReSTART Rd PRO 4P   |
|--|---|---|---|
|  |  |          |  |
| <b>Electrical characteristics</b>  |   |   |   |
| Standards:   | EN 50557  |   |   |
| Distribution system:   | TT - TN-S   |   |   |
| Rated operational voltage (Ue):  | (V)   | 230 AC <sup>(1)</sup>   |   |
| Minimum operating voltage (min Ue)   | (V)   | 85% Ue  |   |
| Maximum operating voltage (max Ue):  | (V)   | 110% Ue   |   |
| Rated insulation voltage (Ui):   | (V)   | 500   |   |
| Dielectric strength test voltage between pole and earth:                   | (V)   | 2500 AC for 1 minute  |   |
| Rated impulse withstand voltage (Uimp):                                    | (kV)  | 4   |   |
| Overvoltage category:  |   | III   |   |
| Rated frequency:   | (Hz)  | 50  |   |
| Residual making and breaking capacity (IΔm):                               | (A)   | IΔm of the associated circuit breaker   |   |
| Rated conditional residual short-circuit current with fuse (IΔc):          | (A)   | IΔc of the associated circuit breaker   |   |
| Number of poles:   |   | 2   | 4   |
| Type of IDP RCCB:  |   | AC - A - A[IR] - A[S]   |   |
| Rated current (In):  | (A)   | 25 - 40 - 63 - 80 - 100   |   |
| Rated residual operating current (IΔn):                                    | (mA)  | 30 - 100 - 300 - 500  |   |
| Rated non-operating resistance between live parts and earth (Rdo):         | (kΩ)  | 8 (30mA) - 2,5 (100/300/500mA)  |   |
| Rated operating resistance between live parts and earth (Rd):              | (kΩ)  | 16 (30mA) - 5 (100/300/500mA)   |   |
| Power loss at In:  | (W)   | Power loss of the associated circuit breaker  |   |
| Off-load absorbed power:   | (VA)  | 3 (cosφ=0.4)  | 4 (cosφ=0.2)  |
| Power absorbed during automatic reclosing:                                 | (VA)  | 18 (cosφ=0.5)   | 45 (cosφ=0.5)   |
| <b>Mechanical characteristics</b>  |   |   |   |
| Width in DIN modules:  |   | 1   | 3   |
| Reclosing time:  | (s)   | 10  |   |
| Maximum operational frequency:   | (oper/h)  | 30  |   |
| Max mechanical endurance (total no. operations):                           |   | 4000  |   |
| Maximum no. of consecutive automatic reclosure operations <sup>(2)</sup> : |   | 3   |   |
| Counter reset time no. of consecutive automatic reclosure operations:      | (s)   | 60  |   |
| Section of circuit breaker terminals:                                      | (mm <sup>2</sup> )  | flexible cable: ≤ 1x35 - ≤ 2x16 - ≤ 1x16+2x10<br>rigid cable: ≤ 1x35 - ≤ 2x16 - ≤ 1x16+2x10 |   |
| Circuit breaker rated tightening torque:                                   | (Nm)  | 3 (IDP) - 2 (IDP NA)  |   |
| Mounting position:   |   | any   |   |
| Circuit breaker degree of protection:                                      |   | IP20 (terminals) - IP40 (front)   |   |
| Pollution degree:  |   | 2   |   |
| Operating temperature:   | (°C)  | -5 +40  | -5 +60 <sup>(3)</sup>   |
| Stocking temperature:  | (°C)  | -40 +70   |   |
| Tropicalization:   |   | 55°C - RH 95%   |   |
| <b>Auxiliary contact characteristics</b>                                   |   |   |   |
| Can be fitted with auxiliary:  |   | no  | yes (with GWD0951) already integrated in the ReStart                                |
| Type of contact:   |   | -   | Photomos (potential free contact)   |
| Operating voltage:   | (V)   | -   | 5-230 AC/DC   |
| Operating current:   | (mA)  | -   | 0,6 (min) - 100 cosφ=1 (max)  |
| Operating frequency:   | (Hz)  | -   | 50  |
| Category of use:   |   | -   | AC12  |
| Operating mode:  |   | -   | NO\NC\NO as signal of handle position   |
| Terminal section:  | (mm <sup>2</sup> )  | -   | ≤ 2,5   |
| Rated tightening torque:   | (Nm)  | -   | 0,4   |
| <b>ReStart function</b>  |   |   |   |
| Automatic reclosure for untimely tripping:                                 |   | •   | •   |
| Earth failure test:  |   | •   | •   |
| Earth leakage check:   |   | •   | •   |
| Interruption of reclosure operation in the event of a fault:               |   | •   | •   |
| Signalling of reclosure operation in progress:                             |   | •   | •   |
| Light signalling of failure:   |   | •   | •   |
| Activation / exclusion of ReStart function:                                |   | •   | •   |
| Auxiliary contact for remote operating status access:                      |   | •   | •   |
| Internal electrical protection:  |   | PTC   | PTC   |

<sup>(1)</sup> Power supply 230V phase-neutral

<sup>(2)</sup> In the absence of a system fault

<sup>(3)</sup> Average daily temperature ≤ +35°C

## RESTART RM

### Technical data

| TYPE   | ReSTART Rm 2P      | ReSTART Rm PRO 2P   | ReSTART Rm PRO 4P                     | Rm TOP   | CM  |
|--|--------------------|---|---------------------------------------|--|---|
|  |                    |   |                                       |  |   |
| <b>Electrical characteristics</b>  |                    |   |                                       |  |   |
| Standards:   | EN 50557           |   |                                       | -  | -   |
| Distribution system:   | TT - TN-S          |   |                                       | TT - TN - IT <sup>(1)</sup>                      | TT-TN-IT  |
| Rated operational voltage (Ue):  | (V)                | 230 AC <sup>(2)</sup>   |                                       |  |   |
| Minimum operating voltage (min Ue):  | (V)                | 85% Ue  |                                       |  |   |
| Maximum operating voltage (max Ue):  | (V)                | 110% Ue   |                                       |  |   |
| Rated insulation voltage (Ui):   | (V)                | 500   |                                       |  |   |
| Dielectric strength test voltage between pole and earth:                   | (V)                | 2500 AC for 1 minute  |                                       |  |   |
| Rated impulse withstand voltage (Uimp):                                    | (kV)               | 4   |                                       |  |   |
| Overvoltage category:  |                    | III   |                                       |  |   |
| Rated frequency:   | (Hz)               | 50  |                                       |  |   |
| Residual making and breaking capacity (IΔm):                               | (A)                | IΔm of the associated circuit breaker   |                                       |  |   |
| Number of poles:   |                    | 2   |                                       | 4  |   |
| Type of MDC RCBO:  |                    | AC - A - A[IR] - A[S]   |                                       |  |   |
| Type of MT+BD RCBO:  |                    | -   |                                       | AC - A - A[IR] - A[S]                            |   |
| Rated current (In):  | (A)                | from 6 to 32  |                                       | from 1 to 63                                     |   |
| Rated residual operating current (IΔn):                                    | (mA)               | 30 - 300  |                                       | 30 - 300 - 500 - 1000                            |   |
| Rated non-operating resistance between live parts and earth (Rdo):         | (kΩ)               | 8 (30mA) - 2.5 (300mA)  |                                       | 8 (30mA) - 2.5 (300/500/1000mA)                  | -   |
| Rated operating resistance between live parts and earth (Rd):              | (kΩ)               | 16 (30mA) - 5 (300mA)   |                                       | 16 (30mA) - 5 (300/500/1000mA)                   | -   |
| Rated non-operating resistance between live parts (Rcc):                   | (Ω)                | 0.4   |                                       | 0.3  | -   |
| Rated operating resistance between live parts (Rcc):                       | (Ω)                | 2.3   |                                       | 1.8  | -   |
| Power loss at In:  | (W)                | Power loss of the associated circuit breaker  |                                       |  |   |
| Off-load absorbed power:   | (VA)               | 3 (cosφ=0.4)  | 16 (cosφ=0.2)                         | 15 (cosφ=0.1)                                    | 0 (cosφ=0.2)                                    |
| Power absorbed during automatic reclosing:                                 | (VA)               | 18 (cosφ=0.5)   | 34 (cosφ=0.7)                         | 30 (cosφ=0.6)                                    | 30 (cosφ=0.6)                                   |
| Reclosing control:   |                    | automatic   |                                       | automatic / remote <sup>(3)</sup>                | remote <sup>(3)</sup>                           |
| <b>Mechanical characteristics</b>  |                    |   |                                       |  |   |
| Width in DIN modules:  |                    | 1   | 3                                     | 4  | 2   |
| Reclosing time:  | (s)                | 10  |                                       | 3 (without system test)<br>10 (with system test) | 3   |
| Remote control opening time:   | (s)                | -   |                                       | 2  |   |
| Maximum operational frequency:   | (oper./h)          | 30  |                                       |  |   |
| Max mechanical endurance (total no. operations):                           |                    | 4000  |                                       | 10000  |   |
| Maximum no. of consecutive automatic reclosure operations <sup>(4)</sup> : |                    | 3   |                                       |  | -   |
| Counter reset time   | (s)                | 60  |                                       |  |   |
| no. of consecutive automatic reclosure operations:                         |                    |   |                                       |  | -   |
| Section of circuit breaker terminals:                                      | (mm <sup>2</sup> ) | flexible cable: ≤ 1x35 - ≤ 2x16 - ≤ 1x16+2x10<br>rigid cable: ≤ 1x35 - ≤ 2x16 - ≤ 1x16+2x10 |                                       |  |   |
| Rated tightening torque:   | (Nm)               | 2   |                                       |  |   |
| Mounting position:   |                    | any   |                                       |  |   |
| Degree of protection:  |                    | IP20 (terminals) - IP40 (front)   |                                       |  |   |
| Pollution degree:  |                    | 2   |                                       |  |   |
| Operating temperature:   | (°C)               | -5 +40  | -5 +60 <sup>(5)</sup>                 | -25 +60 <sup>(5)</sup>                           |   |
| Stocking temperature:  | (°C)               | -40 +70   |                                       |  |   |
| Tropicalization:   |                    | 55°C - RH 95%   |                                       |  |   |
| <b>Auxiliary contact characteristics</b>                                   |                    |   |                                       |  |   |
| Can be fitted with auxiliary:  |                    | no  | yes (with GWD0951)                    | already integrated in the ReStart                | already integrated in the ReStart               |
| Type of contact:   |                    | -   | Photomos (potential free contact)     | Changeover                                       | Photomos (potential free contact)<br>Changeover |
| Operating voltage:   | (V)                | -   | 5-230 AC/DC                           | 230 AC / 30 DC                                   | 5-230 AC/DC                                     |
| Operating current:   | (mA)               | -   | 0,6 (min) - 100 cosφ=1 (max)          | 1,5 a.c. / 0,8 d.c.                              | 0,6 (min)-100 cosφ=1 (max)                      |
| Operating frequency:   | (Hz)               | -   |                                       | 50   |   |
| Category of use:   |                    | -   |                                       | AC12   |   |
| Operating mode:  |                    | -   | NO/NC/NO as signal of handle position | CO   | NO/NC/<br>INTERMITTENT                          |
| Terminal section:  | (mm <sup>2</sup> ) | -   |                                       | ≤ 2.5  |   |
| Rated tightening torque:   | (Nm)               | -   |                                       | 0.4  |   |
| <b>ReStart function</b>  |                    |   |                                       |  |   |
| Automatic reclosure for untimely tripping:                                 |                    | •   | •                                     | •  | •   |
| Earth leakage check:   |                    | •   | •                                     | •  | •   |
| Short-circuit check:   |                    | •   | •                                     | •  | •   |
| Adjustable insulation threshold:   |                    |   |                                       | •  |   |
| Continuous system check:   |                    |   | •                                     | •  |   |
| Adjustable reset standby time <sup>(6)</sup> :                             |                    |   |                                       | •  |   |
| Adjustable reclosing mode:   |                    |   |                                       | •  |   |
| Interruption of reclosure operation in the event of a fault:               |                    | •   | •                                     | •  | •   |
| Signalling of reclosure operation in progress:                             |                    | •   | •                                     | •  | •   |
| Light signalling of failure:   |                    | •   | •                                     | •  | •   |
| Activation / exclusion of ReStart function:                                |                    | •   | •                                     | •  | •   |
| Auxiliary contact for remote operating status access:                      |                    |   | •                                     | •  | •   |
| Internal electrical protection:  |                    | PTC   | PTC                                   | PTC  | PTC   |

<sup>(1)</sup> For IT system reclosing without fault check

<sup>(4)</sup> In the absence of a system fault

<sup>(2)</sup> Power supply 230V phase-neutral

<sup>(5)</sup> Average daily temperature ≤ +35°C

<sup>(3)</sup> Impulse duration ≥ 200ms

<sup>(6)</sup> Automatic reclosure delay time: 0-1h

# Modular circuit breakers for circuit protection

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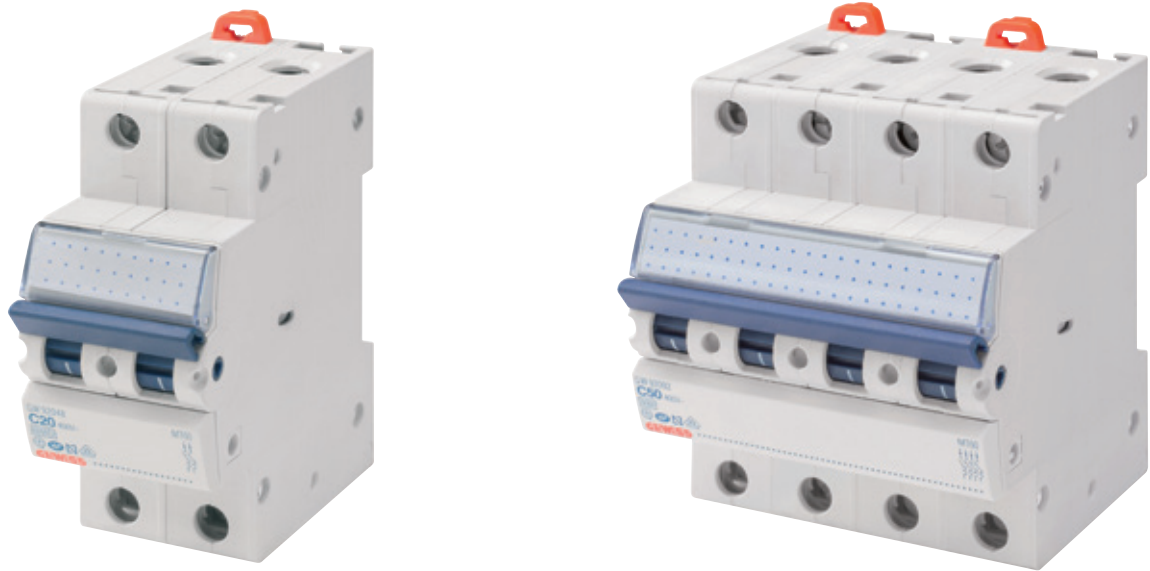
## 90 MCB

MTC - COMPACT MINIATURE CIRCUIT BREAKERS





MT - MINIATURE CIRCUIT BREAKERS



MTHP - HIGH PERFORMANCE MINIATURE CIRCUIT BREAKERS

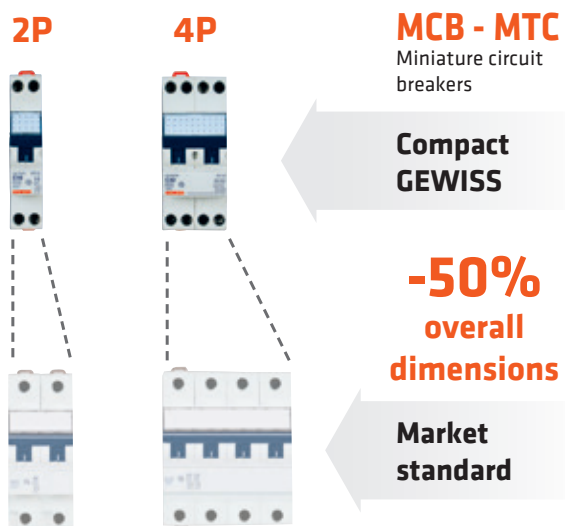


## MCBs for circuit protection

With the compact MCBs **MTC** you can protect 2 poles for each module.

The **MT** MCBs, based on unique and innovative design solutions and the use of high quality materials, stand out for their optimum performance, robustness and long-term reliability.

The high-performance **MTHP** MCBs - up to 125A and with a breaking capacity of 16kA (EN 60947-2) - can be used both as a main switch and as circuit breaker protection in electrical boards with a high short-circuit current.



**MTC**



**MT**

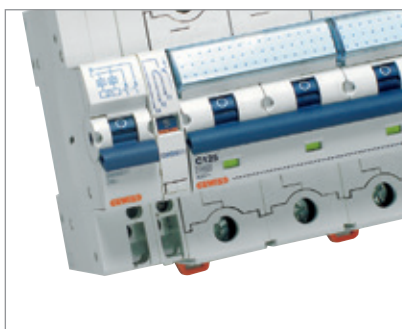


**MTHP**



### Maximum safety

In addition to the characteristic of the double DIN clip, which allows a more steady mounting and facilitates maintenance operations, the terminals are supplied with protective and sliding insulation insert for the maximum safety of tightening and against any possible contacts with live parts.



### Accessories to simplify use

The complete integration among the circuit breakers and all electrical auxiliaries the 90 range allow to simplify the accessory management.

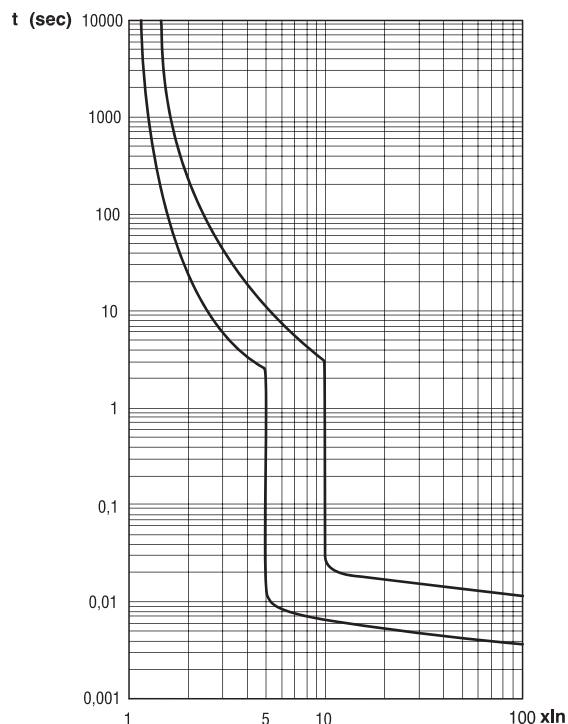


### Quick identification

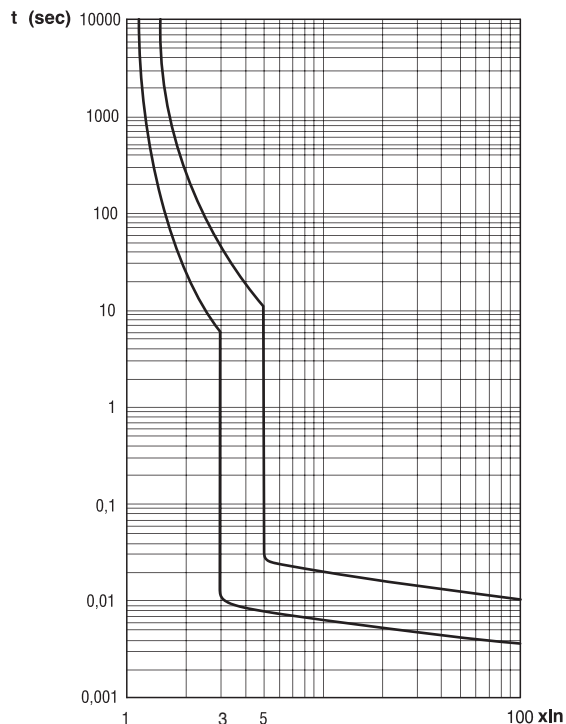
The label holder is suitable for identification of the function of every circuit and it is available across the range.

TRIPPING CHARACTERISTICS IN ALTERNATING CURRENT (EN 60898)

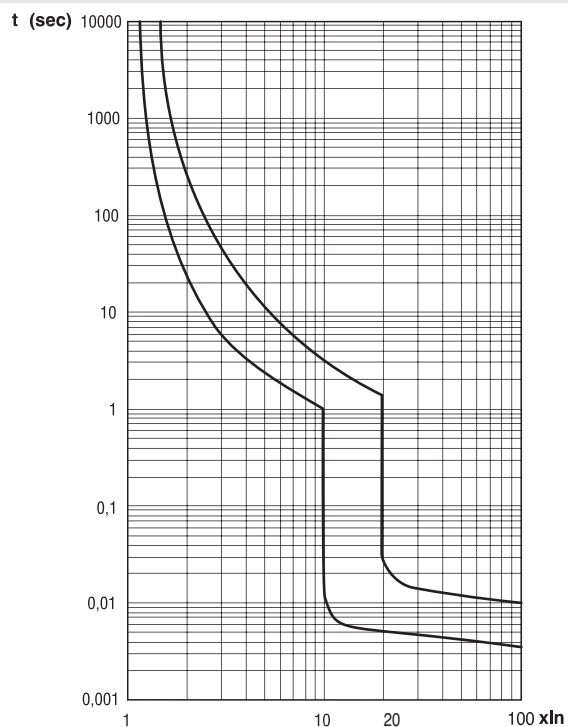
MTC 45 - 60 - 100 Characteristic C  
 MT 45 - MT 60 - 100 - 250 Characteristic C  
 MTHP 160 - 250 Characteristic C



MT 45 - MT 60 - 100 Characteristic B  
 MTC 60 Characteristic B



MT 60 - 100 Characteristic D  
 MTHP 160 Characteristic D



| Tripping characteristic | B              | C               | D               |
|-------------------------|----------------|-----------------|-----------------|
| $I_n$                   | from 6 to 63 A | from 1 to 125 A | from 6 to 100 A |
| <b>Thermal release</b>  |                |                 |                 |
| $I_{nf}$                | 1,13 $I_n$     | 1,13 $I_n$      | 1,13 $I_n$      |
| $I_f$                   | 1,45 $I_n$     | 1,45 $I_n$      | 1,45 $I_n$      |
| t                       | < 1 h          | < 1 h           | < 1 h           |
| <b>Magnetic release</b> |                |                 |                 |
| $I_{nf}$                | 3 $I_n$        | 5 $I_n$         | 10 $I_n$        |
| $I_f$                   | 5 $I_n$        | 10 $I_n$        | 20 $I_n$        |
| t                       | instantaneous  | instantaneous   | instantaneous   |

$I_n$  = rated current  
 $I_{nf}$  = conventional non-tripping current  
 $I_f$  = conventional tripping current  
 t = tripping time












**B tripping curve:** tripping characteristic for the protection of electrical resistive loads (for example: heating) and very long electrical distribution lines.

**C tripping curve:** tripping characteristic for the protection of general electrical resistive or slight inductive loads (for example: fluorescent lamps).

**D tripping curve:** tripping characteristic for the protection of electrical heavy inductive loads or high starting currents (for example: electrical engines).

# 90 MCB MODULAR CIRCUIT BREAKERS FOR CIRCUIT PROTECTION

## Selection tables

|                      |       |           | MINIATURE CIRCUIT BREAKERS  |   |   |   |   |   |  |   |   |   |   |           |
|----------------------|-------|-----------|---|---|---|---|---|---|--|---|---|---|---|-----------|
|                      |       |           | MTC   |   |   |   |   |   | MT   |   |   |   |   |           |
|                      |       |           |  |  |  |  |  |  |  |  |  |  |  |           |
| Icn [A]<br>(EN60898) | Curve | In [A]    | 1P<br>1 mod.  | 1P+N<br>1 mod.  | 1P+N*<br>1 mod.   | 2P<br>1 mod.  | 3P<br>2 mod.  | 4P<br>2 mod.  | 1P<br>1 mod.   | 1P+N<br>2 mod.  | 2P<br>2 mod.  | 3P<br>3 mod.  | 4P<br>4 mod.  |           |
|                      |       |           | <b>MTC 45</b>   |   |   |   |   |   | <b>MT 45</b>   |   |   |   |   |           |
| 4500                 | C     | 2         | -   | GW 90 022   | GW 90 602   | -   | -   | -   | -  | -   | -   | -   | -   |           |
|                      |       | 6         | GW 90 005   | GW 90 025   | GW 90 605   | GW 90 045   | GW 90 065   | GW 90 085   | GW 92 105  | GW 92 125   | GW 92 145   | GW 92 165   | GW 92 185   |           |
|                      |       | 10        | GW 90 006   | GW 90 026   | GW 90 606   | GW 90 046   | GW 90 066   | GW 90 086   | GW 92 106  | GW 92 126   | GW 92 146   | GW 92 166   | GW 92 186   |           |
|                      |       | 13        | GW 90 011   | GW 90 031   | -   | GW 90 051   | GW 90 071   | GW 90 091   | GW 92 107  | GW 92 127   | GW 92 147   | GW 92 167   | GW 92 187   |           |
|                      |       | 16        | GW 90 007   | GW 90 027   | GW 90 607   | GW 90 047   | GW 90 067   | GW 90 087   | GW 92 108  | GW 92 128   | GW 92 148   | GW 92 168   | GW 92 188   |           |
|                      |       | 20        | GW 90 008   | GW 90 028   | GW 90 608   | GW 90 048   | GW 90 068   | GW 90 088   | GW 92 109  | GW 92 129   | GW 92 149   | GW 92 169   | GW 92 189   |           |
|                      |       | 25        | GW 90 009   | GW 90 029   | GW 90 609   | GW 90 049   | GW 90 069   | GW 90 089   | GW 92 110  | GW 92 130   | GW 92 150   | GW 92 170   | GW 92 190   |           |
|                      | 32    | GW 90 010 | GW 90 030   | GW 90 610   | GW 90 050   | GW 90 070   | GW 90 090   | GW 92 111   | GW 92 131  | GW 92 151   | GW 92 171   | GW 92 191   |   |           |
|                      | 40    | -         | -   | -   | -   | -   | -   | GW 92 112   | GW 92 132  | GW 92 152   | GW 92 172   | GW 92 192   |   |           |
|                      | B     | 6         | -   | -   | -   | -   | -   | -   | GW 92 305  | GW 92 325   | GW 92 345   | GW 92 365   | GW 92 385   |           |
|                      |       | 10        | -   | -   | -   | -   | -   | -   | GW 92 306  | GW 92 326   | GW 92 346   | GW 92 366   | GW 92 386   |           |
|                      |       | 13        | -   | -   | -   | -   | -   | -   | GW 92 307  | GW 92 327   | GW 92 347   | GW 92 367   | GW 92 387   |           |
|                      |       | 16        | -   | -   | -   | -   | -   | -   | GW 92 308  | GW 92 328   | GW 92 348   | GW 92 368   | GW 92 388   |           |
|                      |       | 20        | -   | -   | -   | -   | -   | -   | GW 92 309  | GW 92 329   | GW 92 349   | GW 92 369   | GW 92 389   |           |
| 25                   |       | -         | -   | -   | -   | -   | -   | GW 92 310   | GW 92 330  | GW 92 350   | GW 92 370   | GW 92 390   |   |           |
| 32                   |       | -         | -   | -   | -   | -   | -   | GW 92 311   | GW 92 331  | GW 92 351   | GW 92 371   | GW 92 391   |   |           |
| 40                   | -     | -         | -   | -   | -   | -   | GW 92 312   | GW 92 332   | GW 92 352  | GW 92 372   | GW 92 392   |   |   |           |
|                      |       |           | <b>MTC 60</b>   |   |   |   |   |   | <b>MT 60</b>   |   |   |   |   |           |
| 6000                 | C     | 1         | -   | -   | -   | -   | -   | -   | GW 92 001  | GW 92 021   | GW 92 041   | GW 92 061   | GW 92 081   |           |
|                      |       | 2         | -   | -   | -   | -   | -   | -   | GW 92 002  | GW 92 022   | GW 92 042   | GW 92 062   | GW 92 082   |           |
|                      |       | 3         | -   | -   | -   | -   | -   | -   | GW 92 003  | GW 92 023   | GW 92 043   | GW 92 063   | GW 92 083   |           |
|                      |       | 4         | -   | -   | -   | -   | -   | -   | GW 92 004  | GW 92 024   | GW 92 044   | GW 92 064   | GW 92 084   |           |
|                      |       | 6         | -   | GW 90 225   | -   | GW 90 245   | GW 90 265   | GW 90 285   | GW 92 005  | GW 92 025   | GW 92 045   | GW 92 065   | GW 92 085   |           |
|                      |       | 10        | -   | GW 90 226   | -   | GW 90 246   | GW 90 266   | GW 90 286   | GW 92 006  | GW 92 026   | GW 92 046   | GW 92 066   | GW 92 086   |           |
|                      |       | 13        | -   | GW 90 231   | -   | GW 90 251   | GW 90 271   | GW 90 291   | GW 92 014  | GW 92 034   | GW 92 054   | GW 92 074   | GW 92 094   |           |
|                      |       | 16        | -   | GW 90 227   | -   | GW 90 247   | GW 90 267   | GW 90 287   | GW 92 007  | GW 92 027   | GW 92 047   | GW 92 067   | GW 92 087   |           |
|                      |       | 20        | -   | GW 90 228   | -   | GW 90 248   | GW 90 268   | GW 90 288   | GW 92 008  | GW 92 028   | GW 92 048   | GW 92 068   | GW 92 088   |           |
|                      |       | 25        | -   | GW 90 229   | -   | GW 90 249   | GW 90 269   | GW 90 289   | GW 92 009  | GW 92 029   | GW 92 049   | GW 92 069   | GW 92 089   |           |
|                      |       | 32        | -   | GW 90 230   | -   | GW 90 250   | GW 90 270   | GW 90 290   | GW 92 010  | GW 92 030   | GW 92 050   | GW 92 070   | GW 92 090   |           |
|                      |       | 40        | -   | -   | -   | -   | -   | -   | GW 92 011  | GW 92 031   | GW 92 051   | GW 92 071   | GW 92 091   |           |
|                      |       | 50        | -   | -   | -   | -   | -   | -   | GW 92 012  | GW 92 032   | GW 92 052   | GW 92 072   | GW 92 092   |           |
|                      | 63    | -         | -   | -   | -   | -   | -   | GW 92 013   | GW 92 033  | GW 92 053   | GW 92 073   | GW 92 093   |   |           |
|                      | B     | 6         | -   | GW 90 325   | -   | GW 90 345   | -   | -   | GW 92 205  | -   | GW 92 245   | GW 92 265   | GW 92 285   |           |
|                      |       | 10        | -   | GW 90 326   | -   | GW 90 346   | -   | -   | GW 92 206  | -   | GW 92 246   | GW 92 266   | GW 92 286   |           |
|                      |       | 13        | -   | GW 90 327   | -   | GW 90 347   | -   | -   | GW 92 214  | -   | GW 92 254   | GW 92 274   | GW 92 294   |           |
|                      |       | 16        | -   | GW 90 328   | -   | GW 90 348   | -   | -   | GW 92 207  | -   | GW 92 247   | GW 92 267   | GW 92 287   |           |
|                      |       | 20        | -   | GW 90 329   | -   | GW 90 349   | -   | -   | GW 92 208  | -   | GW 92 248   | GW 92 268   | GW 92 288   |           |
|                      |       | 25        | -   | GW 90 330   | -   | GW 90 350   | -   | -   | GW 92 209  | -   | GW 92 249   | GW 92 269   | GW 92 289   |           |
|                      |       | 32        | -   | GW 90 331   | -   | GW 90 351   | -   | -   | GW 92 210  | -   | GW 92 250   | GW 92 270   | GW 92 290   |           |
|                      |       | 40        | -   | -   | -   | -   | -   | -   | GW 92 211  | -   | GW 92 251   | GW 92 271   | GW 92 291   |           |
|                      |       | 50        | -   | -   | -   | -   | -   | -   | GW 92 212  | -   | GW 92 252   | GW 92 272   | GW 92 292   |           |
|                      |       | 63        | -   | -   | -   | -   | -   | -   | GW 92 213  | -   | GW 92 253   | GW 92 273   | GW 92 293   |           |
|                      |       | D         | 6   | -   | -   | -   | -   | -   | -  | GW 92 405   | -   | GW 92 445   | GW 92 465   | GW 92 485 |
|                      |       |           | 10  | -   | -   | -   | -   | -   | -  | GW 92 406   | -   | GW 92 446   | GW 92 466   | GW 92 486 |
|                      |       |           | 13  | -   | -   | -   | -   | -   | -  | GW 92 414   | -   | GW 92 454   | GW 92 474   | GW 92 494 |
|                      | 16    |           | -   | -   | -   | -   | -   | -   | GW 92 407  | -   | GW 92 447   | GW 92 467   | GW 92 487   |           |
| 20                   | -     |           | -   | -   | -   | -   | -   | GW 92 408   | -  | GW 92 448   | GW 92 468   | GW 92 488   |   |           |
| 25                   | -     |           | -   | -   | -   | -   | -   | GW 92 409   | -  | GW 92 449   | GW 92 469   | GW 92 489   |   |           |
| 32                   | -     |           | -   | -   | -   | -   | -   | GW 92 410   | -  | GW 92 450   | GW 92 470   | GW 92 490   |   |           |
| 40                   | -     | -         | -   | -   | -   | -   | GW 92 411   | -   | GW 92 451  | GW 92 471   | GW 92 491   |   |   |           |

\* Miniature circuit breakers with neutral on the left

|                              |       |        | MINIATURE CIRCUIT BREAKERS |              |              |              |                 |              |                |              |                 |              |  |  |
|------------------------------|-------|--------|----------------------------|--------------|--------------|--------------|-----------------|--------------|----------------|--------------|-----------------|--------------|--|--|
|                              |       |        | MTC                        |              | MT           |              |                 |              | MTHP           |              |                 |              |  |  |
|                              |       |        |                            |              |              |              |                 |              |                |              |                 |              |  |  |
| Icn [A]<br>(EN60898)         | Curve | In [A] | 1P+N<br>1 mod.             | 2P<br>1 mod. | 1P<br>1 mod. | 2P<br>2 mod. | 3P<br>3 mod.    | 4P<br>4 mod. | 1P<br>1.5 mod. | 2P<br>3 mod. | 3P<br>4.5 mod.  | 4P<br>6 mod. |  |  |
|                              |       |        | <b>MTC 100</b>             |              |              |              | <b>MT 100</b>   |              |                |              |                 |              |  |  |
| 10000                        | C     | 6      | GW 90 425                  | GW 90 445    | GW 92 605    | GW 92 645    | GW 92 665       | GW 92 685    | -              | -            | -               | -            |  |  |
|                              |       | 10     | GW 90 426                  | GW 90 446    | GW 92 606    | GW 92 646    | GW 92 666       | GW 92 686    | -              | -            | -               | -            |  |  |
|                              |       | 13     | GW 90 431                  | GW 90 451    | GW 92 614    | GW 92 654    | GW 92 674       | GW 92 694    | -              | -            | -               | -            |  |  |
|                              |       | 16     | GW 90 427                  | GW 90 447    | GW 92 607    | GW 92 647    | GW 92 667       | GW 92 687    | -              | -            | -               | -            |  |  |
|                              |       | 20     | GW 90 428                  | GW 90 448    | GW 92 608    | GW 92 648    | GW 92 668       | GW 92 688    | -              | -            | -               | -            |  |  |
|                              |       | 25     | GW 90 429                  | GW 90 449    | GW 92 609    | GW 92 649    | GW 92 669       | GW 92 689    | -              | -            | -               | -            |  |  |
|                              |       | 32     | GW 90 430                  | GW 90 450    | GW 92 610    | GW 92 650    | GW 92 670       | GW 92 690    | -              | -            | -               | -            |  |  |
|                              |       | 40     | -                          | -            | GW 92 611    | GW 92 651    | GW 92 671       | GW 92 691    | -              | -            | -               | -            |  |  |
|                              | 50    | -      | -                          | GW 92 612    | GW 92 652    | GW 92 672    | GW 92 692       | -            | -              | -            | -               |              |  |  |
|                              | 63    | -      | -                          | GW 92 613    | GW 92 653    | GW 92 673    | GW 92 693       | -            | -              | -            | -               |              |  |  |
|                              | B     | 6      | -                          | -            | GW 92 505    | GW 92 545    | GW 92 565       | GW 92 585    | -              | -            | -               | -            |  |  |
|                              |       | 10     | -                          | -            | GW 92 506    | GW 92 546    | GW 92 566       | GW 92 586    | -              | -            | -               | -            |  |  |
|                              |       | 13     | -                          | -            | GW 92 507    | GW 92 547    | GW 92 567       | GW 92 587    | -              | -            | -               | -            |  |  |
|                              |       | 16     | -                          | -            | GW 92 508    | GW 92 548    | GW 92 568       | GW 92 588    | -              | -            | -               | -            |  |  |
|                              |       | 20     | -                          | -            | GW 92 509    | GW 92 549    | GW 92 569       | GW 92 589    | -              | -            | -               | -            |  |  |
|                              |       | 25     | -                          | -            | GW 92 510    | GW 92 550    | GW 92 570       | GW 92 590    | -              | -            | -               | -            |  |  |
|                              |       | 32     | -                          | -            | GW 92 511    | GW 92 551    | GW 92 571       | GW 92 591    | -              | -            | -               | -            |  |  |
|                              |       | 40     | -                          | -            | GW 92 512    | GW 92 552    | GW 92 572       | GW 92 592    | -              | -            | -               | -            |  |  |
|                              | 50    | -      | -                          | GW 92 513    | GW 92 553    | GW 92 573    | GW 92 593       | -            | -              | -            | -               |              |  |  |
|                              | 63    | -      | -                          | GW 92 514    | GW 92 554    | GW 92 574    | GW 92 594       | -            | -              | -            | -               |              |  |  |
|                              | D     | 1      | -                          | -            | GW 92 701    | GW 92 741    | GW 92 761       | GW 92 781    | -              | -            | -               | -            |  |  |
|                              |       | 2      | -                          | -            | GW 92 702    | GW 92 742    | GW 92 762       | GW 92 782    | -              | -            | -               | -            |  |  |
|                              |       | 3      | -                          | -            | GW 92 703    | GW 92 743    | GW 92 763       | GW 92 783    | -              | -            | -               | -            |  |  |
|                              |       | 4      | -                          | -            | GW 92 704    | GW 92 744    | GW 92 764       | GW 92 784    | -              | -            | -               | -            |  |  |
|                              |       | 6      | -                          | -            | GW 92 705    | GW 92 745    | GW 92 765       | GW 92 785    | -              | -            | -               | -            |  |  |
|                              |       | 10     | -                          | -            | GW 92 706    | GW 92 746    | GW 92 766       | GW 92 786    | -              | -            | -               | -            |  |  |
|                              |       | 13     | -                          | -            | GW 92 714    | GW 92 754    | GW 92 774       | GW 92 794    | -              | -            | -               | -            |  |  |
|                              |       | 16     | -                          | -            | GW 92 707    | GW 92 747    | GW 92 767       | GW 92 787    | -              | -            | -               | -            |  |  |
| 20                           |       | -      | -                          | GW 92 708    | GW 92 748    | GW 92 768    | GW 92 788       | -            | -              | -            | -               |              |  |  |
| 25                           |       | -      | -                          | GW 92 709    | GW 92 749    | GW 92 769    | GW 92 789       | -            | -              | -            | -               |              |  |  |
| 32                           |       | -      | -                          | GW 92 710    | GW 92 750    | GW 92 770    | GW 92 790       | -            | -              | -            | -               |              |  |  |
| 40                           |       | -      | -                          | GW 92 711    | GW 92 751    | GW 92 771    | GW 92 791       | -            | -              | -            | -               |              |  |  |
|                              |       |        |                            |              |              |              | <b>MTHP 160</b> |              |                |              |                 |              |  |  |
| 10000<br>(16kA<br>EN60947-2) | C     | 80     | -                          | -            | -            | -            | -               | -            | GW 93 307      | GW 93 327    | GW 93 337       | GW 93 347    |  |  |
|                              |       | 100    | -                          | -            | -            | -            | -               | -            | GW 93 308      | GW 93 328    | GW 93 338       | GW 93 348    |  |  |
|                              |       | 125    | -                          | -            | -            | -            | -               | -            | GW 93 309      | GW 93 329    | GW 93 339       | GW 93 349    |  |  |
|                              | D     | 63     | -                          | -            | -            | -            | -               | -            | GW 93 356      | GW 93 376    | GW 93 386       | GW 93 396    |  |  |
|                              |       | 80     | -                          | -            | -            | -            | -               | -            | GW 93 357      | GW 93 377    | GW 93 387       | GW 93 397    |  |  |
| 100                          | -     | -      | -                          | -            | -            | -            | GW 93 358       | GW 93 378    | GW 93 388      | GW 93 398    |                 |              |  |  |
|                              |       |        |                            |              |              |              | <b>MT 250</b>   |              |                |              | <b>MTHP 250</b> |              |  |  |
| 12500                        | C     | 50     | -                          | -            | GW 92 812    | GW 92 852    | GW 92 872       | GW 92 892    | -              | -            | -               | -            |  |  |
|                              |       | 63     | -                          | -            | GW 92 813    | GW 92 853    | GW 92 873       | GW 92 893    | -              | -            | -               | -            |  |  |
| 15000                        | C     | 32     | -                          | -            | GW 92 810    | GW 92 850    | GW 92 870       | GW 92 890    | -              | -            | -               | -            |  |  |
|                              |       | 40     | -                          | -            | GW 92 811    | GW 92 851    | GW 92 871       | GW 92 891    | -              | -            | -               | -            |  |  |
| 20000                        | C     | 25     | -                          | -            | GW 92 809    | GW 92 849    | GW 92 869       | GW 92 889    | -              | -            | -               | -            |  |  |
| 25000                        | C     | 6      | -                          | -            | GW 92 805    | GW 92 845    | GW 92 865       | GW 92 885    | -              | -            | -               | -            |  |  |
|                              |       | 10     | -                          | -            | GW 92 806    | GW 92 846    | GW 92 866       | GW 92 886    | -              | -            | -               | -            |  |  |
|                              |       | 16     | -                          | -            | GW 92 807    | GW 92 847    | GW 92 867       | GW 92 887    | -              | -            | -               | -            |  |  |
|                              |       | 20     | -                          | -            | GW 92 808    | GW 92 848    | GW 92 868       | GW 92 888    | GW 93 201      | GW 93 221    | GW 93 231       | GW 93 241    |  |  |
|                              |       | 25     | -                          | -            | -            | -            | -               | -            | GW 93 202      | GW 93 222    | GW 93 232       | GW 93 242    |  |  |
|                              |       | 32     | -                          | -            | -            | -            | -               | -            | GW 93 203      | GW 93 223    | GW 93 233       | GW 93 243    |  |  |
|                              |       | 40     | -                          | -            | -            | -            | -               | -            | GW 93 204      | GW 93 224    | GW 93 234       | GW 93 244    |  |  |
|                              |       | 50     | -                          | -            | -            | -            | -               | -            | GW 93 205      | GW 93 225    | GW 93 235       | GW 93 245    |  |  |
| 63                           | -     | -      | -                          | -            | -            | -            | GW 93 206       | GW 93 226    | GW 93 236      | GW 93 246    |                 |              |  |  |

# Residual current protection circuit breakers

---

## 90 RCD

MDC - MONOBLOC COMPACT RCBO'S



**BD - ADD-ON RESIDUAL CURRENT DEVICES FOR MINIATURE CIRCUIT BREAKERS****IDP - RESIDUAL CURRENT CIRCUIT BREAKERS**

## RCBOs, RCCBs and ADD-ONs for residual current protection

With the compact **MDC** RCBOs, you can protect one pole for each module.

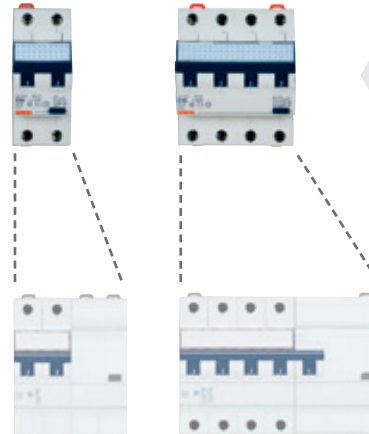
A range of modular devices for residual current protection at the forefront of performance. The **IDP** RCCBs and add-on **BD** and **BDHP** RCDs for **MT** and **MTHP** circuit breakers offer quick assembly and unique innovation solutions.

Wide range of versions:

- instantaneous: type AC - A
- impulse resistant: type A - B
- selective: type A - B
- with adjustable tripping threshold and time delay: type A

2P

4P



**RCBO - MDC**

Residual current circuit breakers with overcurrent protection

**Compact  
GEWISS**

**-50%  
overall  
dimensions**

**Market  
standard**



**MDC**



**BD and BDHP**



**IDP**

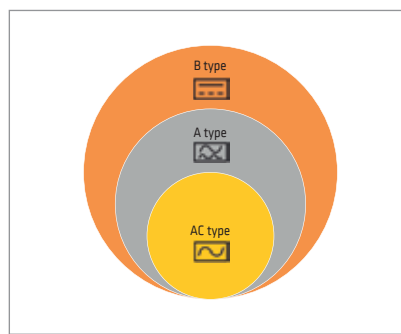


**IDP B type**



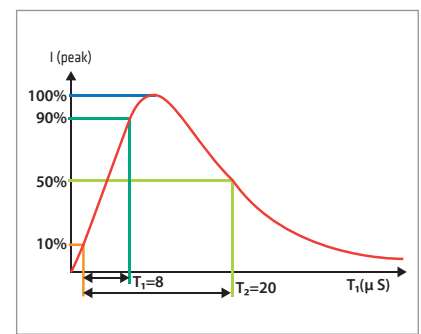
### Quick test

The Add-on RCD's are provided with a test button which tests the correct mechanical coupling with circuit breaker before supplying. This is an important test that ensures the correct operation of trip mechanism. Moreover, the only one lever allows to identify the type of fault that has caused the device to trip. A yellow flag indicates earth fault.



### A circuit breaker for every need

Thanks to the wide possibility of choice, the 90 RCD range allows to meet all the needs of protection in electrical circuit with different types of earth fault currents, from sinusoidal alternating shape (AC type) and pulsating (A type), due to the presence of electronic devices, up to smooth DC shape (B type) used, for example, for the protection of inverters, UPS and medical equipment.



### Without interruption

In addition to AC, A and B types, the 90 RCD range offers also the Impulse Resistant IR version with high resistance to untimely tripping due to overvoltage impulses. This version is particularly suitable for installations where the continuity of service is extremely important. The IR version, available for MDC, BD and IDP, stands out for its ability to provide safety and, at the same time, to not trip during atmospheric discharges, during driving with critical inrush current and in presence of harmonics that usually open the standard RCD's without real fault.



## Selection tables

|                               |           |      |            | COMPACT RESIDUAL CURRENT CIRCUIT BREAKERS WITH OVERCURRENT PROTECTION |              |              |              |                      |              |              |              |           |           |
|-------------------------------|-----------|------|------------|---|--------------|--------------|--------------|----------------------|--------------|--------------|--------------|-----------|-----------|
|                               |           |      |            | I $\Delta$ n = 30mA   |              |              |              | I $\Delta$ n = 300mA |              |              |              |           |           |
|                               |           |      |            |   |              |              |              |                      |              |              |              |           |           |
| I $_{cn}$ [A]<br>(EN 61009-1) | Curve     | Type | I $_n$ [A] | 1P+N<br>2 mod.  | 2P<br>2 mod. | 3P<br>3 mod. | 4P<br>4 mod. | 1P+N<br>2 mod.       | 2P<br>2 mod. | 3P<br>3 mod. | 4P<br>4 mod. |           |           |
| <b>MDC 45</b>                 |           |      |            |   |              |              |              |                      |              |              |              |           |           |
| 4500                          | C         | AC   | 6          | GW 94 005   | GW 94 025    | GW 94 045    | GW 94 065    | GW 94 015            | GW 94 035    | GW 94 055    | GW 94 075    |           |           |
|                               |           |      | 10         | GW 94 006   | GW 94 026    | GW 94 046    | GW 94 066    | GW 94 016            | GW 94 036    | GW 94 056    | GW 94 076    |           |           |
|                               |           |      | 13         | GW 94 011   | GW 94 031    | GW 94 051    | GW 94 071    | -                    | -            | -            | -            |           |           |
|                               |           |      | 16         | GW 94 007   | GW 94 027    | GW 94 047    | GW 94 067    | GW 94 017            | GW 94 037    | GW 94 057    | GW 94 077    |           |           |
|                               |           |      | 20         | GW 94 008   | GW 94 028    | GW 94 048    | GW 94 068    | GW 94 018            | GW 94 038    | GW 94 058    | GW 94 078    |           |           |
|                               |           |      | 25         | GW 94 009   | GW 94 029    | GW 94 049    | GW 94 069    | GW 94 019            | GW 94 039    | GW 94 059    | GW 94 079    |           |           |
|                               |           | A    | 32         | GW 94 010   | GW 94 030    | GW 94 050    | GW 94 070    | GW 94 020            | GW 94 040    | GW 94 060    | GW 94 080    |           |           |
|                               |           |      | 6          | GW 94 205   | GW 94 225    | GW 94 245    | GW 94 265    | GW 94 215            | GW 94 235    | GW 94 255    | GW 94 275    |           |           |
|                               |           |      | 10         | GW 94 206   | GW 94 226    | GW 94 246    | GW 94 266    | GW 94 216            | GW 94 236    | GW 94 256    | GW 94 276    |           |           |
|                               |           |      | 13         | GW 94 211   | GW 94 231    | GW 94 251    | GW 94 271    | -                    | -            | -            | -            |           |           |
|                               |           |      | 16         | GW 94 207   | GW 94 227    | GW 94 247    | GW 94 267    | GW 94 217            | GW 94 237    | GW 94 257    | GW 94 277    |           |           |
|                               |           |      | 20         | GW 94 208   | GW 94 228    | GW 94 248    | GW 94 268    | GW 94 218            | GW 94 238    | GW 94 258    | GW 94 278    |           |           |
|                               |           | 6000 | C          | AC  | 6            | GW 94 105    | GW 94 125    | GW 94 145            | GW 94 165    | GW 94 115    | GW 94 135    | GW 94 155 | GW 94 175 |
|                               |           |      |            |   | 10           | GW 94 106    | GW 94 126    | GW 94 146            | GW 94 166    | GW 94 116    | GW 94 136    | GW 94 156 | GW 94 176 |
| 13                            | GW 94 111 |      |            |   | GW 94 131    | GW 94 151    | GW 94 171    | -                    | -            | -            | -            |           |           |
| 16                            | GW 94 107 |      |            |   | GW 94 127    | GW 94 147    | GW 94 167    | GW 94 117            | GW 94 137    | GW 94 157    | GW 94 177    |           |           |
| 20                            | GW 94 108 |      |            |   | GW 94 128    | GW 94 148    | GW 94 168    | GW 94 118            | GW 94 138    | GW 94 158    | GW 94 178    |           |           |
| 25                            | GW 94 109 |      |            |   | GW 94 129    | GW 94 149    | GW 94 169    | GW 94 119            | GW 94 139    | GW 94 159    | GW 94 179    |           |           |
| A                             | 32        |      |            | GW 94 110   | GW 94 130    | GW 94 150    | GW 94 170    | GW 94 120            | GW 94 140    | GW 94 160    | GW 94 180    |           |           |
|                               | 6         |      |            | GW 94 305   | GW 94 325    | GW 94 345    | GW 94 365    | GW 94 315            | GW 94 335    | GW 94 355    | GW 94 375    |           |           |
|                               | 10        |      |            | GW 94 306   | GW 94 326    | GW 94 346    | GW 94 366    | GW 94 316            | GW 94 336    | GW 94 356    | GW 94 376    |           |           |
|                               | 13        |      |            | GW 94 311   | GW 94 331    | GW 94 351    | GW 94 371    | -                    | -            | -            | -            |           |           |
|                               | 16        |      |            | GW 94 307   | GW 94 327    | GW 94 347    | GW 94 367    | GW 94 317            | GW 94 337    | GW 94 357    | GW 94 377    |           |           |
|                               | 20        |      |            | GW 94 308   | GW 94 328    | GW 94 348    | GW 94 368    | GW 94 318            | GW 94 338    | GW 94 358    | GW 94 378    |           |           |
| A[IR]                         | 25        |      |            | GW 94 309   | GW 94 329    | GW 94 349    | GW 94 369    | GW 94 319            | GW 94 339    | GW 94 359    | GW 94 379    |           |           |
|                               | 32        |      |            | GW 94 310   | GW 94 330    | GW 94 350    | GW 94 370    | GW 94 320            | GW 94 340    | GW 94 360    | GW 94 380    |           |           |
|                               | 6         | -    | GW 95 805  | -   | GW 95 815    | -            | -            | -                    | -            |              |              |           |           |
|                               | 10        | -    | GW 95 806  | -   | GW 95 816    | -            | -            | -                    | -            |              |              |           |           |
|                               | 13        | -    | GW 95 811  | -   | GW 95 821    | -            | -            | -                    | -            |              |              |           |           |
|                               | 16        | -    | GW 95 807  | -   | GW 95 817    | -            | -            | -                    | -            |              |              |           |           |
| A[S]                          | 20        | -    | GW 95 808  | -   | GW 95 818    | -            | -            | -                    | -            |              |              |           |           |
|                               | 25        | -    | GW 95 809  | -   | GW 95 819    | -            | -            | -                    | -            |              |              |           |           |
|                               | 32        | -    | GW 95 810  | -   | GW 95 820    | -            | -            | -                    | -            |              |              |           |           |
|                               | 16        | -    | -          | -   | -            | -            | GW 95 847    | -                    | GW 95 857    |              |              |           |           |
| B                             | A         | 20   | -          | -   | -            | -            | -            | GW 95 848            | -            | GW 95 858    |              |           |           |
|                               |           | 25   | -          | -   | -            | -            | -            | GW 95 849            | -            | GW 95 859    |              |           |           |
|                               |           | 32   | -          | -   | -            | -            | -            | GW 95 850            | -            | GW 95 860    |              |           |           |
|                               |           | 6    | GW 95 105  | GW 95 125   | GW 95 145    | GW 95 165    | GW 95 115    | GW 95 135            | GW 95 155    | GW 95 175    |              |           |           |
|                               |           | 10   | GW 95 106  | GW 95 126   | GW 95 146    | GW 95 166    | GW 95 116    | GW 95 136            | GW 95 156    | GW 95 176    |              |           |           |
|                               |           | 13   | GW 95 111  | GW 95 131   | GW 95 151    | GW 95 171    | -            | -                    | -            | -            |              |           |           |
|                               |           | 16   | GW 95 107  | GW 95 127   | GW 95 147    | GW 95 167    | GW 95 117    | GW 95 137            | GW 95 157    | GW 95 177    |              |           |           |
|                               |           | 20   | GW 95 108  | GW 95 128   | GW 95 148    | GW 95 168    | GW 95 118    | GW 95 138            | GW 95 158    | GW 95 178    |              |           |           |
|                               |           | 25   | GW 95 109  | GW 95 129   | GW 95 149    | GW 95 169    | GW 95 119    | GW 95 139            | GW 95 159    | GW 95 179    |              |           |           |
|                               |           | 32   | GW 95 110  | GW 95 130   | GW 95 150    | GW 95 170    | GW 95 120    | GW 95 140            | GW 95 160    | GW 95 180    |              |           |           |

# 90 RCD MODULAR CIRCUIT BREAKERS FOR RESIDUAL CURRENT PROTECTION

|                         |       |           |           | COMPACT RESIDUAL CURRENT CIRCUIT BREAKERS WITH OVERCURRENT PROTECTION |               |               |              |                |              |               |               |
|-------------------------|-------|-----------|-----------|---|---------------|---------------|--------------|----------------|--------------|---------------|---------------|
|                         |       |           |           | IΔn = 30mA  |               | IΔn = 100mA   |              | IΔn = 300mA    |              |               |               |
|                         |       |           |           |   |               |               |              |                |              |               |               |
| Icn [A]<br>(EN 61009-1) | Curve | Type      | In [A]    | 1P+N<br>2 mod.  | 2P<br>2 mod.  | 3P<br>3 mod.  | 2P<br>2 mod. | 1P+N<br>2 mod. | 2P<br>2 mod. |               |               |
| <b>MDC 100</b>          |       |           |           |   |               |               |              |                |              |               |               |
| 10000                   | C     | AC        | 6         | GW 95 005   | GW 95 025     | GW 95 025 MA* | -            | -              | GW 95 015    | GW 95 035     | GW 95 035 MA* |
|                         |       |           | 10        | GW 95 006   | GW 95 026     | GW 95 026 MA* | -            | -              | GW 95 016    | GW 95 036     | GW 95 036 MA* |
|                         |       |           | 13        | GW 95 011   | GW 95 031     | GW 95 031 MA* | -            | -              | -            | -             | -             |
|                         |       |           | 16        | GW 95 007   | GW 95 027     | GW 95 027 MA* | -            | -              | GW 95 017    | GW 95 037     | GW 95 037 MA* |
|                         |       |           | 20        | GW 95 008   | GW 95 028     | GW 95 028 MA* | -            | -              | GW 95 018    | GW 95 038     | GW 95 038 MA* |
|                         |       |           | 25        | GW 95 009   | GW 95 029     | GW 95 029 MA* | -            | -              | GW 95 019    | GW 95 039     | GW 95 039 MA* |
|                         |       | 32        | GW 95 010 | GW 95 030   | GW 95 030 MA* | -             | -            | GW 95 020      | GW 95 040    | GW 95 040 MA* |               |
|                         |       | A         | 6         | GW 95 205   | GW 95 225     | GW 95 225 MA* | GW 95 245**  | GW 95 785      | GW 95 215    | GW 95 235     | GW 95 235 MA* |
|                         |       |           | 10        | GW 95 206   | GW 95 226     | GW 95 226 MA* | GW 95 246**  | GW 95 786      | GW 95 216    | GW 95 236     | GW 95 236 MA* |
|                         |       |           | 13        | GW 95 211   | GW 95 231     | GW 95 231 MA* | -            | GW 95 791      | -            | -             | -             |
|                         |       |           | 16        | GW 95 207   | GW 95 227     | GW 95 227 MA* | GW 95 247**  | GW 95 787      | GW 95 217    | GW 95 237     | GW 95 237 MA* |
|                         |       |           | 20        | GW 95 208   | GW 95 228     | GW 95 228 MA* | GW 95 248**  | GW 95 788      | GW 95 218    | GW 95 238     | GW 95 238 MA* |
|                         | 25    |           | GW 95 209 | GW 95 229   | GW 95 229 MA* | GW 95 249**   | GW 95 789    | GW 95 219      | GW 95 239    | GW 95 239 MA* |               |
|                         | A(IR) | 32        | GW 95 210 | GW 95 230   | GW 95 230 MA* | GW 95 250**   | GW 95 790    | GW 95 220      | GW 95 240    | GW 95 240 MA* |               |
|                         |       | 6         | -         | GW 95 825   | -             | -             | -            | -              | -            | -             |               |
|                         |       | 10        | -         | GW 95 826   | -             | -             | -            | -              | -            | -             |               |
|                         |       | 13        | -         | GW 95 831   | -             | -             | -            | -              | -            | -             |               |
|                         |       | 16        | -         | GW 95 827   | -             | -             | -            | -              | -            | -             |               |
|                         |       | 20        | -         | GW 95 828   | -             | -             | -            | -              | -            | -             |               |
|                         | B     | A         | 25        | -   | GW 95 829     | -             | -            | -              | -            | -             |               |
|                         |       |           | 32        | -   | GW 95 830     | -             | -            | -              | -            | -             |               |
|                         |       |           | 6         | -   | GW 95 325     | -             | GW 95 795    | -              | GW 95 335    |               |               |
|                         |       |           | 10        | -   | GW 95 326     | -             | GW 95 796    | -              | GW 95 336    |               |               |
|                         |       |           | 13        | -   | GW 95 331     | -             | GW 95 801    | -              | -            |               |               |
| 16                      |       |           | -         | GW 95 327   | -             | GW 95 797     | -            | GW 95 337      |              |               |               |
| A(IR)                   |       | 20        | -         | GW 95 328   | -             | GW 95 798     | -            | GW 95 338      |              |               |               |
|                         |       | 25        | -         | GW 95 329   | -             | GW 95 799     | -            | GW 95 339      |              |               |               |
|                         |       | 32        | -         | GW 95 330   | -             | GW 95 800     | -            | GW 95 340      |              |               |               |
|                         |       | 6         | -         | GW 95 835   | -             | -             | -            | -              |              |               |               |
|                         |       | 10        | -         | GW 95 836   | -             | -             | -            | -              |              |               |               |
|                         |       | 13        | -         | GW 95 841   | -             | -             | -            | -              |              |               |               |
| 16                      | -     | GW 95 837 | -         | -   | -             | -             |              |                |              |               |               |
| 20                      | -     | GW 95 838 | -         | -   | -             | -             |              |                |              |               |               |
| 25                      | -     | GW 95 839 | -         | -   | -             | -             |              |                |              |               |               |
| 32                      | -     | GW 95 840 | -         | -   | -             | -             |              |                |              |               |               |

\* Rated operating voltage equal to 110V ac







\*\* Rated operating voltage equal to 230V ac

| ADD-ON RESIDUAL CURRENT DEVICES (EN 61009-1 APP. G) |          |              |           |                |           |                |           |              |              |              |
|---|----------|--------------|-----------|----------------|-----------|----------------|-----------|--------------|--------------|--------------|
| BD  |          |              |           |                |           |                |           |              |              |              |
| BDHP  |          |              |           |                |           |                |           |              |              |              |
|   |          |              |           |                |           |                |           |              |              |              |
| Type  | IΔn [mA] | 2P<br>2 mod. |           | 3P<br>3,5 mod. |           | 4P<br>3,5 mod. |           | 2P<br>4 mod. | 3P<br>6 mod. | 4P<br>6 mod. |
|   |          | Ins25 A      | Ins63 A   | Ins25 A        | Ins63 A   | Ins25 A        | Ins63 A   | Ins125 A     | Ins125 A     | Ins125 A     |
| AC  | 10       | GW 94 401    | -         | -              | -         | -              | -         | -            | -            | -            |
|   | 30       | GW 94 402    | GW 94 412 | GW 94 442      | GW 94 448 | GW 94 422      | GW 94 432 | GW 95 406    | GW 95 416    | GW 95 426    |
|   | 300      | GW 94 403    | GW 94 413 | GW 94 443      | GW 94 449 | GW 94 423      | GW 94 433 | GW 95 408    | GW 95 418    | GW 95 428    |
|   | 500      | GW 94 404    | GW 94 414 | GW 94 444      | GW 94 450 | GW 94 424      | GW 94 434 | -            | -            | -            |
| A   | 30       | GW 94 502    | GW 94 512 | GW 94 542      | GW 94 547 | GW 94 522      | GW 94 532 | GW 95 436    | GW 95 446    | GW 95 456    |
|   | 300      | GW 94 503    | GW 94 513 | GW 94 543      | GW 94 548 | GW 94 523      | GW 94 533 | GW 95 438    | GW 95 448    | GW 95 458    |
|   | 500      | GW 94 504    | GW 94 514 | GW 94 544      | GW 94 549 | GW 94 524      | GW 94 534 | -            | -            | -            |
| A(IR)   | 30       | GW 94 566    | -         | GW 94 595      | -         | GW 94 586      | -         | -            | -            | -            |
| A(S)  | 300      | GW 94 563    | -         | GW 94 598      | -         | GW 94 583      | -         | GW 95 468    | GW 95 478    | GW 95 488    |
|   | 1000     | GW 94 565    | -         | GW 94 600      | -         | GW 94 585      | -         | GW 95 470    | GW 95 480    | GW 95 490    |
| A reg.  | 300-3000 | -            | -         | -              | -         | -              | -         | -            | -            | GW 95 512    |

|        |        |      |          | RCD SAFETY SOCKETS |           | FLUSH-MOUNTING RCDs |           | HOUSING FOR SURFACE-MOUNTING |  |
|--------|--------|------|----------|--------------------|-----------|---------------------|-----------|------------------------------|--|
|        |        |      |          |                    |           |                     |           |                              |  |
| In [A] | Ue [V] | Type | IΔn [mA] | IP21               | IP44      | IP41                | IP44      |                              |  |
| 16     | 230    | A    | 10       | GW 95 921          | GW 95 923 | GW 95 925           | GW 95 928 |                              |  |
|        |        |      | 30       | GW 95 922          | GW 95 924 | GW 95 926           |           |                              |  |

**RCCBS IDP**

**SELECTION TABLES**

|        |       |          | 2P  |   | 4P  |   |   |   |           |
|--------|-------|----------|---|---|---|---|---|---|-----------|
|        |       |          |  |  |  |  |  |  |           |
| In [A] | Type  | IΔn [mA] | 2 mod. (NA)*  | 2 mod.  | 3 mod.  | 4 mod. (NA)*  | 4 mod.  | 4 mod.***   |           |
| 25     | AC    | 10       | -   | GW D4 001   | -   | -   | -   | -   |           |
|        |       | 30       | GW D4 617   | GW D4 002   | GW 94 662   | GW D4 427   | GW D4 102   | GW D4 302   |           |
|        |       | 100      | -   | GW D4 003   | -   | -   | GW D4 103   | -   |           |
|        |       | 300      | -   | GW D4 004   | GW 94 664   | GW D4 429   | GW D4 104   | GW D4 304   |           |
|        | A     | 10       | -   | GW D4 011   | GW 94 866   | -   | GW D4 111   | -   |           |
|        |       | 30       | GW D4 817   | GW D4 012   | GW 94 867   | GW D4 439   | GW D4 112   | GW D4 312   |           |
|        |       | 100      | -   | GW D4 013   | -   | -   | GW D4 113   | -   |           |
|        |       | 300      | -   | GW D4 014   | GW 94 869   | GW D4 441   | GW D4 114   | GW D4 314   |           |
|        | A[IR] | 30       | -   | GW D4 202   | -   | -   | GW D4 217   | GW D4 317   |           |
|        |       | 300      | -   | GW D4 203   | -   | -   | GW D4 218   | -   |           |
|        | B[IR] | 30       | -   | GW 95 701 **  | -   | -   | GW 95 716   | -   |           |
|        |       | 300      | -   | -   | -   | -   | GW 95 718   | -   |           |
| 40     | AC    | 30       | GW D4 627   | GW D4 022   | GW 94 667   | GW D4 431   | GW D4 122   | GW D4 322   |           |
|        |       | 100      | -   | GW D4 023   | GW 94 668   | -   | GW D4 123   | -   |           |
|        |       | 300      | -   | GW D4 024   | GW 94 669   | GW D4 433   | GW D4 124   | GW D4 324   |           |
|        |       | 500      | -   | GW D4 025   | GW 94 670   | -   | GW D4 125   | -   |           |
|        | A     | 30       | GW D4 827   | GW D4 032   | GW 94 897   | GW D4 443   | GW D4 132   | GW D4 332   |           |
|        |       | 100      | -   | GW D4 033   | GW 94 898   | -   | GW D4 133   | -   |           |
|        |       | 300      | -   | GW D4 034   | GW 94 899   | GW D4 445   | GW D4 134   | GW D4 334   |           |
|        |       | 500      | -   | GW D4 035   | GW 94 900   | -   | GW D4 135   | -   |           |
|        | A[IR] | 30       | -   | GW D4 205   | -   | -   | GW D4 220   | GW D4 337   |           |
|        |       | 300      | -   | GW D4 206   | -   | -   | GW D4 221   | -   |           |
|        | A[S]  | 300      | -   | GW D4 234   | -   | -   | GW D4 249   | -   |           |
|        |       | 500      | -   | GW D4 235   | -   | -   | GW D4 250   | -   |           |
|        | B[IR] | 30       | -   | GW 95 706 **  | -   | -   | GW 95 721   | -   |           |
|        |       | 300      | -   | -   | -   | -   | GW 95 723   | -   |           |
|        | 63    | AC       | 30  | -   | GW D4 042   | -   | GW D4 435   | GW D4 142   | GW D4 342 |
|        |       |          | 100   | -   | GW D4 043   | -   | -   | GW D4 143   | -         |
| 300    |       |          | -   | GW D4 044   | -   | GW D4 437   | GW D4 144   | GW D4 344   |           |
| 500    |       |          | -   | GW D4 045   | -   | -   | GW D4 145   | -   |           |
| A      |       | 30       | -   | GW D4 052   | -   | GW D4 447   | GW D4 152   | GW D4 352   |           |
|        |       | 100      | -   | GW D4 053   | -   | -   | GW D4 153   | -   |           |
|        |       | 300      | -   | GW D4 054   | -   | GW D4 449   | GW D4 154   | GW D4 354   |           |
|        |       | 500      | -   | GW D4 055   | -   | -   | GW D4 155   | -   |           |
| A[IR]  |       | 30       | -   | GW D4 208   | -   | -   | GW D4 223   | GW D4 357   |           |
|        |       | 300      | -   | GW D4 209   | -   | -   | GW D4 224   | -   |           |
| A[S]   |       | 300      | -   | GW D4 237   | -   | -   | GW D4 252   | -   |           |
|        |       | 500      | -   | GW D4 238   | -   | -   | GW D4 253   | -   |           |
| B[IR]  |       | 30       | -   | -   | -   | -   | GW 95 726   | -   |           |
|        |       | 300      | -   | -   | -   | -   | GW 95 728   | -   |           |
| B[S]   |       | 500      | -   | -   | -   | -   | GW 95 729   | -   |           |
|        |       | 300      | -   | -   | -   | -   | GW 95 737   | -   |           |
| 80     | AC    | 30       | -   | GW D4 062   | -   | -   | GW D4 162   | GW D4 362   |           |
|        |       | 100      | -   | GW D4 063   | -   | -   | GW D4 163   | -   |           |
|        |       | 300      | -   | GW D4 064   | -   | -   | GW D4 164   | GW D4 364   |           |
|        |       | 500      | -   | -   | -   | -   | -   | -   |           |
|        | A     | 30       | -   | GW D4 072   | -   | -   | GW D4 172   | -   |           |
|        |       | 100      | -   | GW D4 073   | -   | -   | GW D4 173   | -   |           |
|        |       | 300      | -   | GW D4 074   | -   | -   | GW D4 174   | -   |           |
|        |       | 500      | -   | GW D4 240   | -   | -   | GW D4 255   | -   |           |
|        | A[S]  | 300      | -   | -   | -   | -   | GW 95 731   | -   |           |
|        |       | 500      | -   | -   | -   | -   | GW 95 733   | -   |           |
| B[IR]  | 30    | -        | -   | -   | -   | GW 95 743   | -   |   |           |
|        | 300   | -        | -   | -   | -   | -   | -   |   |           |
| B[S]   | 300   | -        | -   | -   | -   | -   | -   |   |           |
|        | 500   | -        | -   | -   | -   | -   | -   |   |           |
| 100    | AC    | 30       | -   | GW D4 082   | -   | -   | GW D4 182   | GW D4 382   |           |
|        |       | 100      | -   | -   | -   | -   | GW D4 183   | -   |           |
|        |       | 300      | -   | GW D4 084   | -   | -   | GW D4 184   | GW D4 384   |           |
|        |       | 500      | -   | -   | -   | -   | GW D4 185   | -   |           |
|        | A     | 30       | -   | GW D4 092   | -   | -   | GW D4 192   | -   |           |
|        |       | 100      | -   | GW D4 093   | -   | -   | GW D4 193   | -   |           |
|        |       | 300      | -   | GW D4 094   | -   | -   | GW D4 194   | -   |           |
|        |       | 500      | -   | -   | -   | -   | GW D4 195   | -   |           |
|        | A[IR] | 30       | -   | GW D4 211   | -   | -   | GW D4 226   | -   |           |
|        |       | 300      | -   | -   | -   | -   | GW D4 227   | -   |           |
| A[S]   | 300   | -        | GW D4 243   | -   | -   | GW D4 258   | -   |   |           |
|        | 500   | -        | GW D4 244   | -   | -   | GW D4 259   | -   |   |           |
| 125    | AC    | 30       | -   | -   | -   | -   | GW 95 601   | -   |           |
|        |       | 300      | -   | -   | -   | -   | GW 95 603   | -   |           |
|        |       | 500      | -   | -   | -   | -   | GW 95 604   | -   |           |
|        | A     | 30       | -   | -   | -   | -   | GW 95 606   | -   |           |
|        |       | 300      | -   | -   | -   | -   | GW 95 608   | -   |           |
|        |       | 500      | -   | -   | -   | -   | GW 95 609   | -   |           |

\* Accessories not available    \*\* 4 Modules    \*\*\* RCCBs with left neutral

# Modular accessories

## 90 AM

MODULAR ACCESSORIES





## 90 PV

PRODUCTS FOR PHOTOVOLTAIC SYSTEMS



## Electrical auxiliaries and busbars

The **auxiliary contacts** and **shunt trip releases**, common to all MCBs and RCBOs, allow simplicity, interchangeability, multiple uses and rationalisation of the items. The range is completed by modular auxiliaries specifically for the RCCB range.

The **busbars** reduce the wiring and labour times, without the need to use cables and crimps. They are available in pin and fork versions with 12 modules, up to one metre long.



**AUXILIARY CONTACT FOR OPEN/CLOSED POSITION**

GW 96 001

**FAULT INDICATOR SWITCH**

GW 96 006

**ADJUSTABLE AUXILIARY CONTACT (POSITION/TRIPPED)**

GW 96 009

**SHUNT TRIP RELEASES**

GW 96 011 (12-48V AC/DC)  
GW 96 012 (110-125V DC) (110-415V AC)

**UNDER VOLTAGE RELEASES**

GW 96 016 (230V AC)  
GW 96 017 (24V AC/DC)  
GW 96 018 (48V AC/DC)

**MTC**

**MT**

**MTHP**

**MDC**

**IDP**

**AUXILIARY CONTACT FOR OPEN/CLOSED POSITION**

GW D6 002 (IDP 25-100A)

**FAULT INDICATOR SWITCH**

GW D6 007 (IDP 25-100A)

**ADJUSTABLE AUXILIARY CONTACT (POSITION/TRIPPED)**

GW D6 010 (IDP 25-100A)

**SHUNT TRIP RELEASES**

GW D6 013 (IDP 25-100A) (12-48V AC/DC)  
GW D6 015 (IDP 25-100A) (110-125V DC) (110-415V AC)

|                |                        | PIN BUSBARS |           | FORK BUSBARS         |           | ISOLATED TERMINAL FOR PIN BUSBARS | BUSBAR END CAPS | PROTECTION CAPS       |
|----------------|------------------------|-------------|-----------|----------------------|-----------|-----------------------------------|-----------------|-----------------------|
|                |                        |             |           |                      |           |                                   |                 |                       |
|                |                        | 12 mod.     | 1 metre   | 12 mod.              | 1 metre   |                                   |                 | 5 pieces              |
| MT - MDC - IDP | 1P                     | GW 96 984   | GW 96 988 | GW 96 992            | GW 96 996 | GW 96 961                         | GW 96 963       | GW 96 967             |
|                | 2P                     | GW 96 985   | GW 96 989 | GW 96 993            | GW 96 997 |                                   | GW 96 964       |                       |
|                | 3P                     | GW 96 986   | GW 96 990 | GW 96 994            | GW 96 998 |                                   | GW 96 965       |                       |
|                | 4P                     | GW 96 987   | GW 96 991 | GW 96 995            | GW 96 999 |                                   | GW 96 966       |                       |
| For MDC        | Up to 6 MDC 1P+N / 2P  | -           |           | 12 mod.<br>GW 96 491 |           | -                                 | -               | 5 pieces<br>GW 96 967 |
| For MTC        | 1P (grey)              | GW 96 500   | -         | -                    | -         | GW 96 503                         | -               | GW 96 967             |
|                | 1P (blue)              | GW 96 501   | -         | -                    | -         |                                   | -               |                       |
|                | 1P (white)             | -           | GW 96 988 | -                    | -         |                                   | -               |                       |
|                |                        |             | 13 mod.   |                      | 6 mod.    |                                   | 12 mod.         |                       |
| For IDP 2P     | Up to 11 MTC 1P+N / 2P | GW 96 507F  |           | -                    | -         | -                                 | -               | GW 96 967             |

# Protection

This range of accessories guarantees excellent protection of loads and power distribution systems. The range includes:

- LST surge protective devices
- disconnectable fuse-holders
- residual current relay with separate toroid
- motor protection switches



Compact fuse-holder

LST surge protective devices

| LST - SURGE PROTECTIVE DEVICES |                      |                      |                      |                     |                      |                      |
|--------------------------------|----------------------|----------------------|----------------------|---------------------|----------------------|----------------------|
| TYPE 1+2                       |                      |                      | TYPE 2               |                     |                      |                      |
| I <sub>max</sub> (kA)          | 1P+N                 |                      | 1P                   |                     | 3P+N                 |                      |
|                                | 230V                 | 400V                 | 230V                 | 400V                | 230V                 | 400V                 |
| 20                             | -                    | -                    | -                    | -                   | GW D6 407<br>2 mod.  | GW D6 409<br>4 mod.  |
| 40                             | -                    | -                    | GW D6 411<br>1 mod.  | GW D6 413<br>1 mod. | GW D6 417<br>2 mod.  | GW D6 419<br>4 mod.  |
|                                |                      |                      | GW D6 412*<br>1 mod. |                     | GW D6 418*<br>2 mod. | GW D6 420*<br>4 mod. |
|                                |                      |                      | GW D6 401<br>2 mod.  | GW D6 402<br>4 mod. | -                    | -                    |
| 65 (I <sub>imp</sub> =12.5kA)  | GW D6 404*<br>4 mod. | GW D6 405*<br>8 mod. | -                    | -                   | -                    | -                    |

\* With auxiliary contact

| MOTOR PROTECTION SWITCHES |           |
|---------------------------|-----------|
| In (A)                    | 3 mod.    |
| 0.1 - 0.16                | GW 96 751 |
| 0.16 - 0.25               | GW 96 752 |
| 0.25 - 0.4                | GW 96 753 |
| 0.4 - 0.63                | GW 96 754 |
| 0.63 - 1                  | GW 96 755 |
| 1 - 1.6                   | GW 96 756 |
| 1.6 - 2.5                 | GW 96 757 |
| 2.5 - 4                   | GW 96 758 |
| 4 - 6.3                   | GW 96 759 |
| 6.3 - 10                  | GW 96 760 |
| 10 - 16                   | GW 96 761 |
| 16 - 25                   | GW 96 762 |
| 25 - 40                   | GW 96 763 |

## AC DISCONNECTABLE FUSE-HOLDERS



| In (A) | Fuse dim. (mm) | 1P                    | 1P+N                | 2P                  | 3P                    | 3P+N                |
|--------|----------------|-----------------------|---------------------|---------------------|-----------------------|---------------------|
| 20     | 8.3x31.5       | GW 96 206<br>1 mod.   | GW 96 216<br>2 mod. | GW 96 301<br>2 mod. | GW 96 306<br>3 mod.   | GW 96 311<br>4 mod. |
|        |                | GW 96 205<br>1 mod.   | GW 96 215<br>2 mod. | GW 96 302<br>2 mod. | GW 96 307<br>3 mod.   | GW 96 312<br>4 mod. |
| 32     | 10.3x38        | -                     | GW 96 220<br>1 mod. | -                   | -                     | -                   |
|        |                | GW 96 207<br>1.5 mod. | GW 96 217<br>3 mod. | GW 96 303<br>3 mod. | GW 96 308<br>4.5 mod. | GW 96 313<br>6 mod. |
| 50     | 14x51          | -                     | GW 96 218<br>4 mod. | -                   | -                     | GW 96 314<br>8 mod. |
|        |                | -                     | -                   | -                   | -                     | -                   |

## RCD RELAY



|           |        |
|-----------|--------|
| GW 96 331 | 3 mod. |
|-----------|--------|

## SEPARATE TOROID



| Diameter (mm) | In max (A) | Code      |
|---------------|------------|-----------|
| 35*           | 125        | GW 96 332 |
| 80*           | 400        | GW 96 333 |
| 110*          | 630        | GW 96 334 |
| 110**         | 630        | GW 96 336 |
| 210*          | 1600       | GW 96 335 |
| 210**         | 1600       | GW 96 337 |

\* Solid-core current transformer  
\*\* Split-core current transformer

## Command

The command accessories allow the connection and disconnection of loads and the isolation of the electrical system. The range is made up of:

- switch disconnectors
- latching relays
- control relays
- CTR contactors
- installation relays



AC switch disconnectors

CTR contactors

### AC SWITCH DISCONNECTORS



|        | 1P        | 2P        | 3P        | 4P        |
|--------|-----------|-----------|-----------|-----------|
| In (A) | 1 mod.    | 2 mod.    | 3 mod.    | 4 mod.    |
| 32     | GW 96 104 | GW 96 114 | GW 96 124 | GW 96 134 |
| 40     | GW 96 105 | GW 96 115 | GW 96 125 | GW 96 135 |
| 63     | GW 96 146 | GW 96 156 | GW 96 166 | GW 96 176 |
| 80     | GW 96 147 | GW 96 157 | GW 96 167 | GW 96 177 |
| 100    | GW 96 148 | GW 96 158 | GW 96 168 | GW 96 178 |
| 125    | GW 96 149 | GW 96 159 | GW 96 169 | GW 96 179 |

### INSTALLATION RELAYS



| TYPE OF CONTACTS | In (A)           |           | 16         |            |           |           |
|------------------|------------------|-----------|------------|------------|-----------|-----------|
|                  | Coil voltage (V) |           | 8 AC       | 12 AC      | 24 AC     | 230 AC    |
|                  | 1 NA             | 1 mod.    | GW D6 601  | GW D6 602  | GW D6 603 | GW D6 604 |
| 2 NA             | 1 mod.           | -         | -          | -          | GW D6 624 |           |
| 4 NA             | 2 mod.           | -         | GW D6 632  | GW D6 633  | GW D6 634 |           |
| 1 CO             | 1 mod.           | GW D6 606 | GW D6 608* | GW D6 610* | GW D6 611 |           |
| 2 CO             | 2 mod.           | GW D6 626 | GW D6 627  | GW D6 629* | GW D6 630 |           |
| 1 NA + 1 NC      | 1 mod.           | -         | GW D6 617  | GW D6 618  | GW D6 619 |           |

\* Also DC voltage

### CONTROL RELAYS



| Current monitoring | Phase monitoring | Undervoltage monitoring 1-phase AC/DC | Undervoltage monitoring 3-phase AC |
|--------------------|------------------|---------------------------------------|------------------------------------|
| GW 96 906          | GW 96 907        | GW 96 908                             | GW 96 909                          |

### CTR CONTACTORS



| TYPE OF CONTACTS | In (A)           | 20                                |                                   | 25                                |                                   | 40                  |                     | 63                  |                     |
|------------------|------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|---------------------|---------------------|---------------------|---------------------|
|                  | Coil voltage (V) | 24 AC                             | 230 AC                            | 24 AC-DC                          | 230 AC-DC                         | 24 AC-DC            | 230 AC-DC           | 24 AC-DC            | 230 AC-DC           |
| 1 NO             | -                | -                                 | GW D6 701<br>1 mod.               | -                                 | -                                 | -                   | -                   | -                   | -                   |
|                  |                  | GW D6 702<br>GW D6 741*<br>1 mod. | GW D6 703<br>GW D6 742*<br>1 mod. | GW D6 711<br>2 mod.               | GW D6 712<br>GW D6 751*<br>2 mod. | -                   | GW D6 721<br>3 mod. | -                   | GW D6 731<br>3 mod. |
| 3 NO             | -                | -                                 | GW D6 708<br>2 mod.               | -                                 | GW D6 713<br>GW D6 752*<br>2 mod. | -                   | GW D6 722<br>3 mod. | -                   | GW D6 732<br>3 mod. |
|                  |                  | GW D6 709<br>2 mod.               | GW D6 714<br>GW D6 753*<br>2 mod. | GW D6 715<br>GW D6 754*<br>2 mod. | GW D6 723<br>3 mod.               | GW D6 724<br>3 mod. | GW D6 733<br>3 mod. | GW D6 734<br>3 mod. |                     |
| 3 NO + 1 NC      | -                | -                                 | -                                 | GW D6 718<br>2 mod.               | -                                 | -                   | -                   | GW D6 735<br>3 mod. |                     |
| 2 NC             | -                | -                                 | GW D6 705<br>GW D6 743*<br>1 mod. | -                                 | -                                 | -                   | -                   | -                   | -                   |
|                  |                  | -                                 | -                                 | GW D6 716<br>2 mod.               | GW D6 717<br>2 mod.               | -                   | -                   | -                   | -                   |
| 1 NO + 1 NC      | -                | GW D6 706<br>1 mod.               | GW D6 707<br>GW D6 744*<br>1 mod. | -                                 | -                                 | -                   | -                   | -                   | -                   |
|                  |                  | -                                 | -                                 | -                                 | -                                 | -                   | GW D6 725<br>3 mod. | -                   | -                   |
| 2 NO + 2 NC      | -                | -                                 | -                                 | -                                 | -                                 | -                   | -                   | -                   |                     |

\* Manual control version

### LATCHING RELAYS



| TYPE OF CONTACTS | In (A)           |           | 16        |            |           |        |
|------------------|------------------|-----------|-----------|------------|-----------|--------|
|                  | Coil voltage (V) |           | 8 AC      | 12 AC      | 24 AC     | 230 AC |
| 1 NA             | 1 mod.           | GW D6 641 | GW D6 642 | GW D6 643  | GW D6 644 |        |
| 2 NA             | 1 mod.           | -         | GW D6 657 | GW D6 658  | GW D6 659 |        |
| 4 NA             | 2 mod.           | -         | GW D6 667 | GW D6 668  | GW D6 669 |        |
| 1 CO             | 1 mod.           | GW D6 646 | GW D6 647 | GW D6 648  | GW D6 650 |        |
|                  |                  |           |           | GW D6 649* |           |        |
| 2 CO             | 2 mod.           | -         | -         | GW D6 663  | GW D6 664 |        |
| 1 NA + 1 NC      | 1 mod.           | -         | GW D6 652 | GW D6 653  | GW D6 654 |        |

\* DC voltage

- GW D6671: used to centralize the command in only one point allowing to simultaneously turning ON and OFF 2 or more relays independently by their position. In order to use this function every relay has to mount this accessory.

- GW D6672: used to realize the simultaneously command of 2 or more groups of centralized relays from one point. In order to obtain this function it is necessary to install this accessory for each group of centralized relay.

It is not possible to use accessories with DC coil relays.



# Programming

Thanks to their versatility, the programming accessories allow electric loads to be controlled and managed in the widest possible variety of system configurations, offering even simpler and more intuitive flexible use for the most common installation situations.



Digital time switches

Twilight switches

| TIME SWITCHES |               |                     |        |                            |      |        |
|---------------|---------------|---------------------|--------|----------------------------|------|--------|
|               |               |                     |        |                            |      |        |
| Analogue      |               |                     |        | Digital (daily and weekly) |      |        |
| GW 96 830     | 1 NO (daily)  | No reserve charge   | 1 mod. | GW 96 844                  | 1 CO | 2 mod. |
| GW 96 831     | 1 CO (daily)  | 150h reserve charge | 3 mod. | GW 96 845                  | 2 CO | 2 mod. |
| GW 96 832     | 1 CO (weekly) | 150h reserve charge | 3 mod. |                            | 1 CO | 1 mod. |
| GW 96 836     | 1 NO (daily)  | 50h reserve charge  | 1 mod. |                            |      |        |

| ASTRONOMICAL SWITCH   |  | TWILIGHT SWITCHES  |             |
|-----------------------|--|--------------------|-------------|
|                       |  |                    |             |
| Without outdoor probe |  | With outdoor probe |             |
| GW 96 821             |  | GW 96 891          | 1 CO 3 mod. |
|                       |  | GW 96 892          | 1 NO 1 mod. |

| TIMERS              |        |                    |        |
|---------------------|--------|--------------------|--------|
|                     |        |                    |        |
| Multifunction timer |        | Asymmetrical timer |        |
| GW 96 814           | 1 mod. | GW 96 815          | 1 mod. |

| STAIRCASE LIGHTING TIMER   |        |
|----------------------------|--------|
|                            |        |
| Without switch-off warning |        |
| GW 96 809                  | 1 mod. |

## Measurement

The range of analogue and digital measurement instruments monitor the main parameters of the electrical system, making it possible to receive immediate information about the electrical values such as voltage, current, energy, etc.



Multimeter



Network analyser

### VOLTMETERS



Analogue



Digital

| Analogue  |        | 3 mod. | Digital   |        |
|-----------|--------|--------|-----------|--------|
| GW 96 861 | 0-300V |        | GW 96 867 | 2 mod. |
| GW 96 862 | 0-500V |        |           |        |

### AMMETERS



Analogue



Digital

| Analogue  |                  | 3 mod. | Digital   |        |
|-----------|------------------|--------|-----------|--------|
| GW 96 871 | Direct (max 10A) |        | GW 96 879 | 2 mod. |
| GW 96 872 | Direct (max 20A) |        |           |        |
| GW 96 873 | Direct (max 30A) |        |           |        |
| GW 96 878 | Using CT / 5A    |        |           |        |

### DIGITAL ENERGY METERS



Three-phase



Single-phase

| Three-phase                       |                  | 4 mod. | Single-phase                      |        |
|-----------------------------------|------------------|--------|-----------------------------------|--------|
| GW D6 806<br>GW D6 807 (MID type) | Direct (max 80A) |        | GW D6 801<br>GW D6 802 (MID type) | 1 mod. |
| GW D6 808<br>GW D6 809 (MID type) | Using CT / 5A    |        |                                   |        |

### DIGITAL MEASUREMENT DEVICES



Network analyser



Multimeter

| Network analyser |  | 4 mod. | Multimeter |        |
|------------------|--|--------|------------|--------|
| GW 96 899        |  |        | GW 96 897  | 2 mod. |

# Signalling

The signalling accessories allow the luminous (with LED technology) and acoustic signalling of alarms, voltage presence, circuit control with an indicator lamp, low voltage circuit power supply.



Indicator lamps and push-buttons



Bells and buzzers

## INDICATOR LAMPS



| 1 mod.                    | Un (V)         |           |
|---------------------------|----------------|-----------|
| LED colour                | 12-24-48 AC/DC | 230 AC    |
| Red                       | GW 96 586      | GW 96 581 |
| Green                     | GW 96 587      | GW 96 582 |
| Yellow                    | GW 96 588      | GW 96 583 |
| Blue                      | GW 96 589      | GW 96 584 |
| White                     | GW 96 590      | GW 96 585 |
| Green and red             | -              | GW 96 591 |
| Triple red                | -              | GW 96 592 |
| Triple (red/yellow/green) | -              | GW 96 598 |

## PUSH-BUTTONS WITH LED



| 1 mod.          |            | Un (V)         |           |
|-----------------|------------|----------------|-----------|
| Type of contact | LED colour | 12-24-48 AC/DC | 230 AC    |
| 1 NO            | Green      | GW 96 570      | GW 96 566 |
| 1 NC            | Red        | GW 96 571      | GW 96 567 |
| 1 NO + 1 NC     | Green      | -              | GW 96 568 |
| 1 NO + 1 NC     | Red        | -              | GW 96 569 |

## BELLS AND BUZZERS



| Un (V)                      |        | 12        | 230       |
|-----------------------------|--------|-----------|-----------|
| Bells                       | 1 mod. | GW 96 401 | -         |
|                             | 2 mod. | -         | GW 96 402 |
| Buzzers                     | 1 mod. | GW 96 406 | -         |
|                             | 2 mod. | -         | GW 96 408 |
| Bell + Buzzer + Transformer | 2 mod. | -         | GW 96 411 |

## BELL TRANSFORMERS



| A (VA) | Secondary voltage (V) |           | No. of modules |
|--------|-----------------------|-----------|----------------|
|        | 12                    | 24        |                |
| 5      | GW 96 421             | GW 96 422 | 2 mod.         |
| 10     | GW 96 423             | GW 96 424 |                |
| 15     | GW 96 425             | GW 96 426 |                |
| 30     | GW 96 431             | GW 96 432 | 3 mod.         |
| 40     | GW 96 433             | GW 96 434 |                |

## SAFETY TRANSFORMERS



| A (VA) | Secondary voltage (V) | No. of modules |
|--------|-----------------------|----------------|
|        | 24                    |                |
| 15     | GW 96 321             | 3 mod.         |
| 25     | GW 96 322             |                |
| 40     | GW 96 323             | 4 mod.         |
| 63     | GW 96 324             | 6 mod.         |

## Products for photovoltaic systems

The 90 PV range includes 6 string board versions that meet the various installation requirements in the photovoltaic sector - whether residential, commercial or industrial. Each string board version has a different number of strings or string voltage level.

In addition to string boards, the range also includes modular products specifically for the DC side of the photovoltaic system, such as:

- **switch disconnectors**
- **surge protective devices**
- **fuse-holders and fuses**



String boards



DC switch disconnectors



DC LST surge protective device



DC fuse-holders



### Ready to be connected

The string boards are already complete with cable glands and terminal blocks enabling quick and easy safe connection to the system. The cable glands are supplied as spare parts, so the connection cable can be made according to individual needs (from the top, bottom or sides). They are supplied with insulated and earth terminals.



### Already tested certified

The string boards have been tested in the GEWISS laboratories, passing all the tests envisaged by standards EN 61439-1 and EN 61439-2 for product certification.

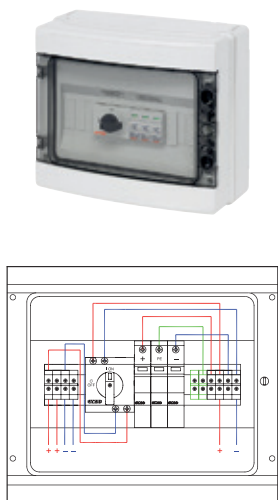


### The ideal range for every application

The 90 PV range contains 6 versions to meet the most varying photovoltaic plant engineering requirements, from residential applications to commercial/industrial sectors. The different versions are distinguished by the number of strings that can be managed and by the voltage level of the photovoltaic plants.

**90 PV RANGE - PRE-WIRED STRING BOARDS**

**2 STRINGS - 600V DC - 25A  
GW D9901**



Pre-wired board for connecting 1 or 2 strings of photovoltaic panels to the inverter. Includes:

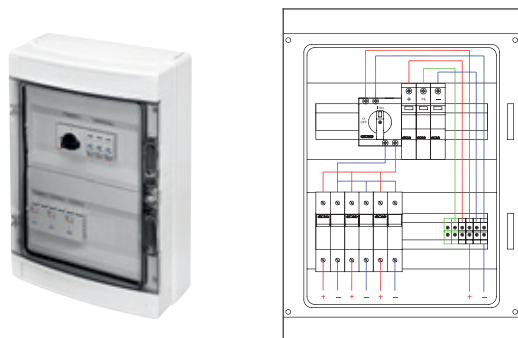
- watertight enclosure
- 1 rotary switch disconnecter 2-pole
- 1 surge protective device with extractable cartridges

**TECHNICAL DATA**

|  |                           |
|--|---------------------------|
| Reference Standards:                           | EN 61439-1 and EN 61439-2 |
| No. of modules of 40CDK enclosure:             | 1x12                      |
| Degree of protection:                          | IP65                      |
| Insulation class:                              | Class II                  |
| Rated voltage of the switch disconnecter (Ue): | 600V DC                   |
| Rated current of the switch disconnecter (In): | 25A                       |
| Rated voltage of the SPD (Un):                 | 600V DC                   |
| Connection cable section:                      | 6mm <sup>2</sup>          |

STRING BOARD EQUIPMENT: cable glands (supplied loose) and equipotential terminal blocks.

**3 STRINGS - 600V DC - 25A  
GW D9902**



Pre-wired board for connecting 3 strings of photovoltaic panels to the inverter. Includes:

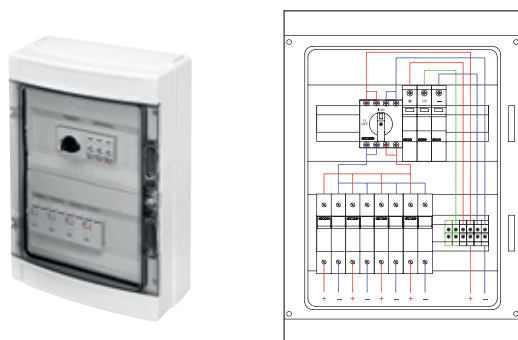
- watertight enclosure
- 1 rotary switch disconnecter 2-pole
- 1 surge protective device with extractable cartridges
- 3 disconnectable fuse-holders

**TECHNICAL DATA**

|  |                           |
|--|---------------------------|
| Reference Standards:                           | EN 61439-1 and EN 61439-2 |
| No. of modules of 40CDK enclosure:             | 2x12                      |
| Degree of protection:                          | IP65                      |
| Insulation class:                              | Class II                  |
| Rated voltage of the switch disconnecter (Ue): | 600V DC                   |
| Rated current of the switch disconnecter (In): | 25A                       |
| Rated voltage of the SPD (Un):                 | 600V DC                   |
| Connection cable section:                      | 6mm <sup>2</sup>          |

STRING BOARD EQUIPMENT: cable glands (supplied loose) and equipotential terminal blocks.  
NB: DC fuses not supplied.

**4 STRINGS - 600V DC - 50A  
GW D9903**



Pre-wired board for connecting 4 strings of photovoltaic panels to the inverter. Includes:

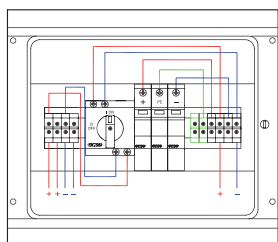
- watertight enclosure
- 1 rotary switch disconnecter 4-pole
- 1 surge protective device with extractable cartridges
- 4 disconnectable fuse-holders

**TECHNICAL DATA**

|  |                           |
|--|---------------------------|
| Reference Standards:                           | EN 61439-1 and EN 61439-2 |
| No. of modules of 40CDK enclosure:             | 2x12                      |
| Degree of protection:                          | IP65                      |
| Insulation class:                              | Class II                  |
| Rated voltage of the switch disconnecter (Ue): | 600V DC                   |
| Rated current of the switch disconnecter (In): | 50A (2 poles in parallel) |
| Rated voltage of the SPD (Un):                 | 600V DC                   |
| Connection cable section:                      | 6mm <sup>2</sup>          |

STRING BOARD EQUIPMENT: cable glands (supplied loose) and equipotential terminal blocks.  
NB: DC fuses not supplied.

## 2 STRINGS - 800V DC - 20A GW D9906



Pre-wired board for connecting 1 or 2 strings of photovoltaic panels to the inverter. Includes:

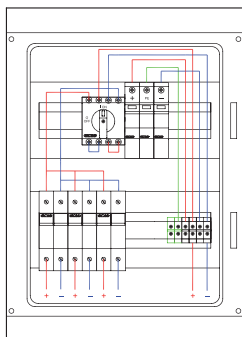
- watertight enclosure
- 1 rotary switch disconnecter 2-pole
- 1 surge protective device with extractable cartridges

### TECHNICAL DATA

|  |                           |
|--|---------------------------|
| Reference Standards:                           | EN 61439-1 and EN 61439-2 |
| No. of modules of 40CDK enclosure:             | 1x12                      |
| Degree of protection:                          | IP65                      |
| Insulation class:                              | Class II                  |
| Rated voltage of the switch disconnecter (Ue): | 800V DC                   |
| Rated current of the switch disconnecter (In): | 20A                       |
| Rated voltage of the SPD (Un):                 | 1000V DC                  |
| Connection cable section:                      | 6mm <sup>2</sup>          |

STRING BOARD EQUIPMENT: cable glands (supplied loose) and equipotential terminal blocks.

## 3 STRINGS - 1000V DC - 32A GW D9907



Pre-wired board for connecting 3 strings of photovoltaic panels to the inverter. Includes:

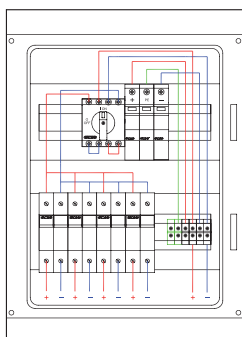
- watertight enclosure
- 1 rotary switch disconnecter 4-pole
- 1 surge protective device with extractable cartridges
- 3 disconnectable fuse-holders

### TECHNICAL DATA

|  |                           |
|--|---------------------------|
| Reference Standards:                           | EN 61439-1 and EN 61439-2 |
| No. of modules of 40CDK enclosure:             | 2x12                      |
| Degree of protection:                          | IP65                      |
| Insulation class:                              | Class II                  |
| Rated voltage of the switch disconnecter (Ue): | 1000V DC                  |
| Rated current of the switch disconnecter (In): | 32A (4 poles in series)   |
| Rated voltage of the SPD (Un):                 | 1000V DC                  |
| Connection cable section:                      | 6mm <sup>2</sup>          |

STRING BOARD EQUIPMENT: cable glands (supplied loose) and equipotential terminal blocks.  
NB: DC fuses not supplied.

## 4 STRINGS - 1000V DC - 32A GW D9908



Pre-wired board for connecting 4 strings of photovoltaic panels to the inverter. Includes:

- watertight enclosure
- 1 rotary switch disconnecter 4-pole
- 1 surge protective device with extractable cartridges
- 4 disconnectable fuse-holders

### TECHNICAL DATA

|  |                           |
|--|---------------------------|
| Reference Standards:                           | EN 61439-1 and EN 61439-2 |
| No. of modules of 40CDK enclosure:             | 2x12                      |
| Degree of protection:                          | IP65                      |
| Insulation class:                              | Class II                  |
| Rated voltage of the switch disconnecter (Ue): | 1000V DC                  |
| Rated current of the switch disconnecter (In): | 32A (4 poles in series)   |
| Rated voltage of the SPD (Un):                 | 1000V DC                  |
| Connection cable section:                      | 6mm <sup>2</sup>          |

STRING BOARD EQUIPMENT: cable glands (supplied loose) and equipotential terminal blocks.  
NB: DC fuses not supplied.

**90 PV RANGE - MODULAR DEVICES IN DIRECT CURRENT**

**SWITCH DISCONNECTORS**



Compact DC switch disconnecter suitable for photovoltaic installations up to 32A 1000V DC

**TECHNICAL DATA**

|   |  |
|---|--|
| Reference Standards:                    | EN 60947-3   |
| Utilisation category:                   | DC21B / DC22B  |
| Rated insulation voltage (Ui):          | 1000V  |
| Rated impulse withstand voltage (Uimp): | 8kV  |
| Operating temperature:                  | -40 to +65°C   |
| Max. cable section:                     | 16mm <sup>2</sup> (solid or stranded)<br>10mm <sup>2</sup> (flexible, also with terminals) |

| Code      | Modules | Poles | Utilisation category | Rated operating voltage (Ue) |         |          |
|-----------|---------|-------|----------------------|------------------------------|---------|----------|
|           |         |       |                      | 600V DC                      | 800V DC | 1000V DC |
|           |         |       |                      | Rated operating current (In) |         |          |
| GW 96 186 | 3.5     | 2     | DC21B                | 25A                          | 20A     | 11A      |
|           |         |       | DC22B                | 6A                           | 2.5A    | 1.5A     |
| GW 96 187 | 3.5     | 4     | DC21B                | 32A                          | 32A     | 32A      |
|           |         |       | DC22B                | 27.5A                        | 12.5A   | 10A      |

**SURGE PROTECTIVE DEVICES LST**



Surge protective devices with extractable cartridge, suitable for photovoltaic applications up to 1000V DC

**TECHNICAL DATA**

|                                   |   |
|-----------------------------------|---|
| Reference Standards:              | EN 61643-11   |
| Type:                             | Type 2 (8/20 μs)  |
| Rated discharge current (In):     | 20kA  |
| Maximum discharge current (Imax): | 40kA  |
| Back-up protection:               | if Icc > 100A DC, fuse type gPV ≤ 20A<br>if Icc < 100A DC, protection not necessary |

| Code      | Rated voltage of the SPD (Un) | Maximum continuous operating voltage (Uc) | Voltage protection level at In (Up) | Modules |
|-----------|-------------------------------|---|-------------------------------------|---------|
| GW D6 426 | 600V DC                       | 700V DC                                   | ≤ 2.6kV                             | 3       |
| GW D6 428 | 1000V DC                      | 1170V DC                                  | ≤ 4kV                               | 3       |

**SPARE CARTRIDGES**

- GW D6 446 suitable for SPD GW D6 426.
- GW D6 448 suitable for SPD GW D6 428.

**DISCONNECTABLE FUSE-HOLDERS**



Fuse-holder bases for protection and isolation of the photovoltaic strings

**TECHNICAL DATA**

|                               |            |
|-------------------------------|------------|
| Reference Standards:          | EN 60947-3 |
| Utilisation category:         | DC20B      |
| Rated operating voltage (Ue): | 1000V DC   |
| Rated current (In):           | 20A        |
| Max power loss:               | 3W         |

| Code      | Poles | Modules |
|-----------|-------|---------|
| GW 96 226 | 1     | 1       |
| GW 96 227 | 2     | 2       |

**FUSES**

The fuses are type gPV, as required for photovoltaic applications

**TECHNICAL DATA**



|                               |             |
|-------------------------------|-------------|
| Reference Standards:          | IEC 60269-6 |
| Dimensions:                   | 10.3 x 38mm |
| Type:                         | gPV         |
| Rated operating voltage (Ue): | 1000V DC    |
| Breaking capacity:            | 30kA DC     |

| Code      | Rated current (In) |
|-----------|--------------------|
| GW 72 131 | 6                  |
| GW 72 132 | 8                  |
| GW 72 133 | 10                 |
| GW 72 134 | 12                 |
| GW 72 135 | 16                 |
| GW 72 136 | 20                 |

# MCCB devices

## MTX

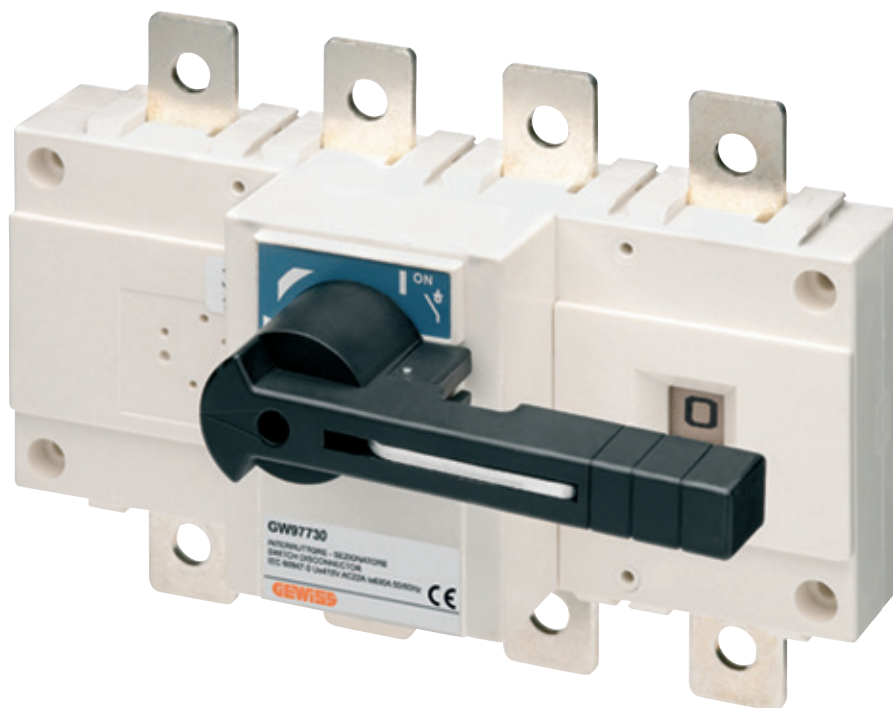
MOULDED CASE CIRCUIT BREAKERS FOR POWER DISTRIBUTION





# 97 MSS

ROTARY SWITCH DISCONNECTORS



## Moulded-case circuit breakers for power distribution

The **MTX** range is the best solution for industrial installations and advanced commercial applications where there is a need for high rated current and breaking capacity, perfectly integrated with the CVX 47 boards. The range offers a wide selection of accessories to meet all installation requirements.



**MTX 160C / MTXM 160C**



**MTX 160**



**MTX 250 / MTXM 250**



**MTX 320 / MTXE 320 / MTXM 320  
MTX 630 / MTXE 630 / MTXM 630**



**MTX 1000 / MTXE 1000  
MTXM 1000**

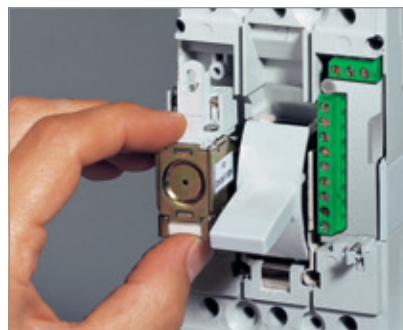


**MTSE 1600 / MTSM 1600**



### Ideal range for every need

The moulded case circuit breakers MTX range is made up of circuit breakers with thermo-magnetic release, circuit breakers with magnetic release only, circuit breakers with electronic release, switch disconnectors, add-on residual current circuit breaker.



### Complete and specific accessories


The MTX range is full of common accessories that streamline the installation and allow to reach additional functions such as remote opening, operating status by remote, engine control etc.




### Positive operation

The operating lever always indicates the precise position of the moving contacts of the circuit-breaker, thereby guaranteeing safe and reliable signals, in compliance with the prescriptions of the IEC 60073 and IEC 60417-2 Standard. The circuit-breaker operating mechanism has free release regardless of the pressure on the lever and the speed of the operation.

**Selection tables**


|                  |           |                          | <b>MTX 160c</b>  |           |           |           |           |
|------------------|-----------|--------------------------|--|-----------|-----------|-----------|-----------|
|                  |           |                          |  |           |           |           |           |
| Release          |           | In [A]                   | B (16kA)   |           | C (25kA)  |           |           |
| THERMAL MAGNETIC | TM1       | Magnetic threshold 10 In | 3P   | 4P        | 3P        | 4P        |           |
|                  |           |                          | 16   | GW D7 001 | GW D7 021 | -         | -         |
|                  |           |                          | 20   | GW D7 002 | GW D7 022 | -         | -         |
|                  |           |                          | 25   | GW D7 003 | GW D7 023 | GW D7 041 | GW D7 051 |
|                  |           |                          | 32   | GW D7 004 | GW D7 024 | GW D7 042 | GW D7 052 |
|                  |           |                          | 40   | GW D7 005 | GW D7 025 | GW D7 043 | GW D7 053 |
|                  |           |                          | 50   | GW D7 006 | GW D7 026 | GW D7 044 | GW D7 054 |
|                  |           |                          | 63   | GW D7 007 | GW D7 027 | GW D7 045 | GW D7 055 |
|                  |           |                          | 80   | GW D7 008 | GW D7 028 | GW D7 046 | GW D7 056 |
|                  |           |                          | 100  | GW D7 009 | GW D7 029 | GW D7 047 | GW D7 057 |
| 125              | GW D7 010 | GW D7 030                | GW D7 048  | GW D7 058 |           |           |           |
| 160              | GW D7 011 | GW D7 031                | GW D7 049  | GW D7 059 |           |           |           |

NOTE: for fixing on DIN EN 50022 profile order following bracket :GW D8 261.


|                  |                            |                             | <b>MTX/E 160</b>  |           |           |           |           |           |           |
|------------------|----------------------------|-----------------------------|---|-----------|-----------|-----------|-----------|-----------|-----------|
|                  |                            |                             |  |           |           |           |           |           |           |
| Release          |                            | In [A]                      | N (36kA)  |           | S (50kA)  |           | H (70kA)  |           |           |
| THERMAL MAGNETIC | TM1                        | Magnetic threshold 10 Ith   | 3P  | 4P        | 3P        | 4P        | 3P        | 4P        |           |
|                  |                            |                             | 10  | GW D7 931 | GW D7 936 | -         | -         | -         | -         |
|                  |                            |                             | 16  | GW D7 932 | GW D7 937 | -         | -         | -         | -         |
|                  |                            |                             | 20  | GW D7 933 | GW D7 938 | -         | -         | -         | -         |
|                  |                            |                             | 25  | GW D7 934 | GW D7 939 | -         | -         | -         | -         |
|                  | GENERATOR PROTECTION - TMG | Magnetic threshold 3 Ith    | 25  | GW D7 081 | GW D7 091 | -         | -         | -         | -         |
|                  |                            |                             | 40  | GW D7 082 | GW D7 092 | -         | -         | -         | -         |
|                  |                            |                             | 63  | GW D7 083 | GW D7 093 | -         | -         | -         | -         |
|                  |                            |                             | 80  | GW D7 084 | GW D7 094 | -         | -         | -         | -         |
|                  |                            |                             | 100   | GW D7 085 | GW D7 095 | -         | -         | -         | -         |
| 125              | GW D7 086                  | GW D7 096                   | -   | -         | -         | -         |           |           |           |
| 160              | GW D7 087                  | GW D7 097                   | -   | -         | -         | -         |           |           |           |
| ELECTRONIC       | SEP/1                      | I                           | 10  | GW D7 146 | GW D7 156 | GW D7 166 | GW D7 176 | GW D7 186 | GW D7 196 |
|                  |                            |                             | 25  | GW D7 147 | GW D7 157 | GW D7 167 | GW D7 177 | GW D7 187 | GW D7 197 |
|                  |                            |                             | 63  | GW D7 148 | GW D7 158 | GW D7 168 | GW D7 178 | GW D7 188 | GW D7 198 |
|                  |                            |                             | 100   | GW D7 149 | GW D7 159 | GW D7 169 | GW D7 179 | GW D7 189 | GW D7 199 |
|                  |                            |                             | 160   | GW D7 150 | GW D7 160 | GW D7 170 | GW D7 180 | GW D7 190 | GW D7 200 |
|                  | LS/I                       | 10                          | GW D7 141   | GW D7 151 | GW D7 161 | GW D7 171 | GW D7 181 | GW D7 191 |           |
|                  |                            | 25                          | GW D7 142   | GW D7 152 | GW D7 162 | GW D7 172 | GW D7 182 | GW D7 192 |           |
|                  |                            | 63                          | GW D7 143   | GW D7 153 | GW D7 163 | GW D7 173 | GW D7 183 | GW D7 193 |           |
|                  |                            | 100                         | GW D7 144   | GW D7 154 | GW D7 164 | GW D7 174 | GW D7 184 | GW D7 194 |           |
|                  |                            | 160                         | GW D7 145   | GW D7 155 | GW D7 165 | GW D7 175 | GW D7 185 | GW D7 195 |           |
| MAGNETIC ONLY    | MOTOR PROTECTION - M       | Magnetic threshold 13 Ith   | 1   | GW D7 101 | -         | GW D7 121 | -         | -         | -         |
|                  |                            |                             | 1.6   | GW D7 102 | -         | GW D7 122 | -         | -         | -         |
|                  |                            |                             | 2   | GW D7 103 | -         | GW D7 123 | -         | -         | -         |
|                  |                            |                             | 2.5   | GW D7 104 | -         | GW D7 124 | -         | -         | -         |
|                  |                            |                             | 3.2   | GW D7 105 | -         | GW D7 125 | -         | -         | -         |
|                  |                            |                             | 4   | GW D7 106 | -         | GW D7 126 | -         | -         | -         |
|                  |                            |                             | 5   | GW D7 107 | -         | GW D7 127 | -         | -         | -         |
|                  |                            |                             | 6.5   | GW D7 108 | -         | GW D7 128 | -         | -         | -         |
|                  |                            |                             | 8.5   | GW D7 109 | -         | GW D7 129 | -         | -         | -         |
|                  |                            |                             | 11  | GW D7 110 | -         | GW D7 130 | -         | -         | -         |
|                  |                            | 12.5                        | GW D7 111   | -         | GW D7 131 | -         | -         | -         |           |
|                  |                            | Magnetic threshold 6÷12 Ith | 20  | GW D7 112 | -         | GW D7 132 | -         | -         | -         |
|                  |                            |                             | 32  | GW D7 113 | -         | GW D7 133 | -         | -         | -         |
|                  |                            |                             | 52  | GW D7 114 | -         | GW D7 134 | -         | -         | -         |
|                  |                            |                             | 80  | GW D7 115 | -         | GW D7 135 | -         | -         | -         |
| 100              | GW D7 116                  |                             | -   | GW D7 136 | -         | -         | -         |           |           |


NOTE: can be fixed on the DIN EN 50022 profile using the GW D8 261 fixing bracket.


# MTX MOULDED-CASE CIRCUIT BREAKERS FOR POWER DISTRIBUTION

|                  |                            |                                |           | MTX 250  |           |           |           |
|------------------|----------------------------|--------------------------------|-----------|--|-----------|-----------|-----------|
|                  |                            |                                |           |  |           |           |           |
| Release          |                            |                                | In [A]    | N (36kA)   |           | S (50kA)  |           |
| THERMAL MAGNETIC | TM1                        | Magnetic threshold<br>10 lth   |           | 3P   | 4P        | 3P        | 4P        |
|                  |                            |                                | 63        | GW D7 201  | GW D7 211 | GW D7 221 | GW D7 231 |
| 80               | GW D7 202                  | GW D7 212                      | GW D7 222 | GW D7 232  |           |           |           |
| 100              | GW D7 203                  | GW D7 213                      | GW D7 223 | GW D7 233  |           |           |           |
| 125              | GW D7 204                  | GW D7 214                      | GW D7 224 | GW D7 234  |           |           |           |
| 160              | GW D7 205                  | GW D7 215                      | GW D7 225 | GW D7 235  |           |           |           |
| 200              | GW D7 206                  | GW D7 216                      | GW D7 226 | GW D7 236  |           |           |           |
| 250              | GW D7 207                  | GW D7 217                      | GW D7 227 | GW D7 237  |           |           |           |
| THERMAL MAGNETIC | GENERATOR PROTECTION - TMG | Magnetic threshold<br>3 lth    | 63        | GW D7 241  | GW D7 251 | GW D7 261 | GW D7 271 |
|                  |                            |                                | 80        | GW D7 242  | GW D7 252 | GW D7 262 | GW D7 272 |
|                  |                            |                                | 100       | GW D7 243  | GW D7 253 | GW D7 263 | GW D7 273 |
|                  |                            |                                | 125       | GW D7 244  | GW D7 254 | GW D7 264 | GW D7 274 |
|                  |                            |                                | 160       | GW D7 245  | GW D7 255 | GW D7 265 | GW D7 275 |
|                  |                            |                                | 200       | GW D7 246  | GW D7 256 | GW D7 266 | GW D7 276 |
|                  |                            |                                | 250       | GW D7 247  | GW D7 257 | GW D7 267 | GW D7 277 |
| MAGNETIC ONLY    | MOTOR PROTECTION - M       | Magnetic threshold<br>6÷12 lth | 100       | GW D7 281  | -         | GW D7 291 | -         |
|                  |                            |                                | 125       | GW D7 282  | -         | GW D7 292 | -         |
|                  |                            |                                | 160       | GW D7 283  | -         | GW D7 293 | -         |
|                  |                            |                                | 200       | GW D7 284  | -         | GW D7 294 | -         |


NOTE: can be fixed on the DIN EN 50022 profile using the GW D8 262 fixing bracket.







|                  |           |                                |           | MTX/E 320   |           |           |           |           |           |           |           |           |
|------------------|-----------|--------------------------------|-----------|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                  |           |                                |           |  |           |           |           |           |           |           |           |           |
| Release          |           |                                | In [A]    | N (36kA)  |           | S (50kA)  |           | H (70kA)  |           | L (120kA) |           |           |
| THERMAL MAGNETIC | TM2       | Magnetic threshold<br>5÷10 lth |           | 3P  | 4P        | 3P        | 4P        | 3P        | 4P        | 3P        | 4P        |           |
|                  |           |                                | 100       | GW D7 301   | GW D7 311 | GW D7 321 | GW D7 331 | -         | -         | -         | -         |           |
| 125              | GW D7 302 | GW D7 312                      | GW D7 322 | GW D7 332   | -         | -         | -         | -         |           |           |           |           |
| 160              | GW D7 303 | GW D7 313                      | GW D7 323 | GW D7 333   | -         | -         | -         | -         |           |           |           |           |
| 200              | GW D7 304 | GW D7 314                      | GW D7 324 | GW D7 334   | -         | -         | -         | -         |           |           |           |           |
| 250              | GW D7 305 | GW D7 315                      | GW D7 325 | GW D7 335   | -         | -         | -         | -         |           |           |           |           |
| ELECTRONIC       | SEP/1     | I                              | 100       | GW D7 344   | GW D7 364 | GW D7 384 | GW D7 404 | GW D7 424 | GW D7 444 | GW D7 464 | GW D7 484 |           |
|                  |           |                                | 160       | GW D7 345   | GW D7 365 | GW D7 385 | GW D7 405 | GW D7 425 | GW D7 445 | GW D7 465 | GW D7 485 |           |
|                  |           |                                | 250       | GW D7 346   | GW D7 366 | GW D7 386 | GW D7 406 | GW D7 426 | GW D7 446 | GW D7 466 | GW D7 486 |           |
|                  |           |                                | 320       | GW D7 354   | GW D7 374 | GW D7 394 | GW D7 414 | GW D7 434 | GW D7 454 | GW D7 474 | GW D7 494 |           |
|                  | SEP/1     | LS/I                           | 100       | GW D7 341   | GW D7 361 | GW D7 381 | GW D7 401 | GW D7 421 | GW D7 441 | GW D7 461 | GW D7 481 |           |
|                  |           |                                | 160       | GW D7 342   | GW D7 362 | GW D7 382 | GW D7 402 | GW D7 422 | GW D7 442 | GW D7 462 | GW D7 482 |           |
|                  |           |                                | 250       | GW D7 343   | GW D7 363 | GW D7 383 | GW D7 403 | GW D7 423 | GW D7 443 | GW D7 463 | GW D7 483 |           |
|                  |           |                                | 320       | GW D7 353   | GW D7 373 | GW D7 393 | GW D7 413 | GW D7 433 | GW D7 453 | GW D7 473 | GW D7 493 |           |
|                  | SEP/2     | LSI                            | 100       | GW D7 347   | GW D7 367 | GW D7 387 | GW D7 407 | GW D7 427 | GW D7 447 | GW D7 467 | GW D7 487 |           |
|                  |           |                                | 160       | GW D7 348   | GW D7 368 | GW D7 388 | GW D7 408 | GW D7 428 | GW D7 448 | GW D7 468 | GW D7 488 |           |
|                  |           |                                | 250       | GW D7 349   | GW D7 369 | GW D7 389 | GW D7 409 | GW D7 429 | GW D7 449 | GW D7 469 | GW D7 489 |           |
|                  |           |                                | 320       | GW D7 355   | GW D7 375 | GW D7 395 | GW D7 415 | GW D7 435 | GW D7 455 | GW D7 475 | GW D7 495 |           |
|                  |           | SEP/2                          | LSIG      | 100   | GW D7 350 | GW D7 370 | GW D7 390 | GW D7 410 | GW D7 430 | GW D7 450 | GW D7 470 | GW D7 490 |
|                  |           |                                |           | 160   | GW D7 351 | GW D7 371 | GW D7 391 | GW D7 411 | GW D7 431 | GW D7 451 | GW D7 471 | GW D7 491 |
|                  |           |                                |           | 250   | GW D7 352 | GW D7 372 | GW D7 392 | GW D7 412 | GW D7 432 | GW D7 452 | GW D7 472 | GW D7 492 |
|                  |           |                                |           | 320   | GW D7 356 | GW D7 376 | GW D7 396 | GW D7 416 | GW D7 436 | GW D7 456 | GW D7 476 | GW D7 496 |

|                         |       |                             | <b>MTX/E 630</b>   |           |           |           |           |           |           |           |           |           |           |
|-------------------------|-------|-----------------------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                         |       |                             |  |           |           |           |           |           |           |           |           |           |           |
| Release                 |       |                             | In [A]   | N (36kA)  |           | S (50kA)  |           | H (70kA)  |           | L (120kA) |           |           |           |
|                         |       |                             |  | 3P        | 4P        | 3P        | 4P        | 3P        | 4P        | 3P        | 4P        |           |           |
| <b>THERMAL MAGNETIC</b> | TM2   | Magnetic threshold 5÷10 Ith | 320  | GW D7 501 | GW D7 506 | GW D7 511 | GW D7 516 | GW D7 521 | GW D7 526 | -         | -         |           |           |
|                         |       |                             | 400  | GW D7 502 | GW D7 507 | GW D7 512 | GW D7 517 | GW D7 522 | GW D7 527 | -         | -         |           |           |
|                         |       |                             | 500  | GW D7 503 | GW D7 508 | GW D7 513 | GW D7 518 | GW D7 523 | GW D7 528 | -         | -         |           |           |
| <b>ELECTRONIC</b>       | SEP/1 | I                           | 400  | GW D7 534 | GW D7 554 | GW D7 574 | GW D7 594 | GW D7 614 | GW D7 634 | GW D7 654 | GW D7 674 |           |           |
|                         |       |                             | 630  | GW D7 540 | GW D7 560 | GW D7 580 | GW D7 600 | GW D7 620 | GW D7 640 | GW D7 660 | GW D7 680 |           |           |
|                         |       |                             | 400  | GW D7 532 | GW D7 552 | GW D7 572 | GW D7 592 | GW D7 612 | GW D7 632 | GW D7 652 | GW D7 672 |           |           |
|                         |       | LS/I                        | 630  | GW D7 539 | GW D7 559 | GW D7 579 | GW D7 599 | GW D7 619 | GW D7 639 | GW D7 659 | GW D7 679 |           |           |
|                         |       |                             | SEP/2  | LSI       | 400       | GW D7 536 | GW D7 556 | GW D7 576 | GW D7 596 | GW D7 616 | GW D7 636 | GW D7 656 | GW D7 676 |
|                         |       |                             |  |           | 630       | GW D7 541 | GW D7 561 | GW D7 581 | GW D7 601 | GW D7 621 | GW D7 641 | GW D7 661 | GW D7 681 |
|                         | LSIG  | 400                         |  | GW D7 538 | GW D7 558 | GW D7 578 | GW D7 598 | GW D7 618 | GW D7 638 | GW D7 658 | GW D7 678 |           |           |
|                         |       | 630                         | GW D7 542  | GW D7 562 | GW D7 582 | GW D7 602 | GW D7 622 | GW D7 642 | GW D7 662 | GW D7 682 |           |           |           |



|                         |       |                             | <b>MTX/E 1000</b>   |           |           |           |           |           |           |           |           |
|-------------------------|-------|-----------------------------|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                         |       |                             |  |           |           |           |           |           |           |           |           |
| Release                 |       |                             | In [A]  | N (36kA)  |           | S (50kA)  |           | H (70kA)  |           | L (100kA) |           |
|                         |       |                             |   | 3P        | 4P        | 3P        | 4P        | 3P        | 4P        | 3P        | 4P        |
| <b>THERMAL MAGNETIC</b> | TM2   | Magnetic threshold 5÷10 Ith | 630   | GW D7 701 | GW D7 706 | GW D7 710 | GW D7 716 | GW D7 721 | GW D7 726 | -         | -         |
|                         |       |                             | 800   | GW D7 702 | GW D7 707 | GW D7 711 | GW D7 717 | GW D7 722 | GW D7 727 | -         | -         |
| <b>ELECTRONIC</b>       | SEP/1 | I                           | 630   | GW D7 732 | GW D7 752 | GW D7 772 | GW D7 792 | GW D7 812 | GW D7 832 | GW D7 852 | GW D7 872 |
|                         |       |                             | 800   | GW D7 736 | GW D7 756 | GW D7 776 | GW D7 796 | GW D7 816 | GW D7 836 | GW D7 856 | GW D7 876 |
|                         |       |                             | 1000  | GW D7 740 | GW D7 760 | GW D7 780 | GW D7 800 | GW D7 820 | GW D7 840 | GW D7 860 | GW D7 880 |
|                         |       | LS/I                        | 630   | GW D7 731 | GW D7 751 | GW D7 771 | GW D7 791 | GW D7 811 | GW D7 831 | GW D7 851 | GW D7 871 |
|                         |       |                             | 800   | GW D7 735 | GW D7 755 | GW D7 775 | GW D7 795 | GW D7 815 | GW D7 835 | GW D7 855 | GW D7 875 |
|                         |       |                             | 1000  | GW D7 739 | GW D7 759 | GW D7 779 | GW D7 799 | GW D7 819 | GW D7 839 | GW D7 859 | GW D7 879 |
|                         | SEP/2 | LSI                         | 630   | GW D7 733 | GW D7 753 | GW D7 773 | GW D7 793 | GW D7 813 | GW D7 833 | GW D7 853 | GW D7 873 |
|                         |       |                             | 800   | GW D7 737 | GW D7 757 | GW D7 777 | GW D7 797 | GW D7 817 | GW D7 837 | GW D7 857 | GW D7 877 |
|                         |       |                             | 1000  | GW D7 741 | GW D7 761 | GW D7 781 | GW D7 801 | GW D7 821 | GW D7 841 | GW D7 861 | GW D7 881 |
|                         |       | LSIG                        | 630   | GW D7 734 | GW D7 754 | GW D7 774 | GW D7 794 | GW D7 814 | GW D7 834 | GW D7 854 | GW D7 874 |
|                         |       |                             | 800   | GW D7 738 | GW D7 758 | GW D7 778 | GW D7 798 | GW D7 818 | GW D7 838 | GW D7 858 | GW D7 878 |
|                         |       |                             | 1000  | GW D7 742 | GW D7 762 | GW D7 782 | GW D7 802 | GW D7 822 | GW D7 842 | GW D7 862 | GW D7 882 |

# MTX MOULDED-CASE CIRCUIT BREAKERS FOR POWER DISTRIBUTION

|            |       |        | MTSE 1600   |           |           |           |           |           |           |
|------------|-------|--------|---|-----------|-----------|-----------|-----------|-----------|-----------|
|            |       |        |  |           |           |           |           |           |           |
| Release    |       | In [A] | S (50kA)  |           | H (65kA)  |           | L (100kA) |           |           |
|            |       |        | 3P  | 4P        | 3P        | 4P        | 3P        | 4P        |           |
| ELECTRONIC | SEP/A | I      | 1250  | GW 97 601 | GW 97 607 | GW 97 625 | GW 97 631 | GW 97 649 | GW 97 655 |
|            |       |        | 1600  | GW 97 602 | GW 97 608 | GW 97 626 | GW 97 632 | GW 97 650 | GW 97 656 |
|            |       | LI     | 1250  | GW 97 604 | GW 97 610 | GW 97 628 | GW 97 634 | GW 97 652 | GW 97 658 |
|            |       |        | 1600  | GW 97 605 | GW 97 611 | GW 97 629 | GW 97 635 | GW 97 653 | GW 97 659 |
|            | SEP/B | LSI    | 1250  | GW 97 613 | GW 97 619 | GW 97 637 | GW 97 643 | GW 97 661 | GW 97 667 |
|            |       |        | 1600  | GW 97 614 | GW 97 620 | GW 97 638 | GW 97 644 | GW 97 662 | GW 97 668 |
|            |       | LSIG   | 1250  | GW 97 616 | GW 97 622 | GW 97 640 | GW 97 646 | GW 97 664 | GW 97 670 |
|            |       |        | 1600  | GW 97 617 | GW 97 623 | GW 97 641 | GW 97 647 | GW 97 665 | GW 97 671 |



| MTXM SWITCH DISCONNECTORS |  |  |           |  |           |  |           |  |           |  |           |  |           |
|---------------------------|--|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|
|                           |  | MTXM 160c  |           | MTXM 250   |           | MTXM 320   |           | MTXM 400 - 630   |           | MTXM 800 - 1000  |           | MTSM 1600  |           |
|                           |  |  |           |  |           |  |           |  |           |  |           |  |           |
| In [A]                    |  | 3P   | 4P        | 3P   | 4P        | 3P   | 4P        | 3P   | 4P        | 3P   | 4P        | 3P   | 4P        |
| 160                       |  | GW D7 901  | GW D7 902 | -  | -         | -  | -         | -  | -         | -  | -         | -  | -         |
| 250                       |  | -  | -         | GW D7 903  | GW D7 904 | -  | -         | -  | -         | -  | -         | -  | -         |
| 320                       |  | -  | -         | -  | -         | GW D7 905  | GW D7 906 | -  | -         | -  | -         | -  | -         |
| 400                       |  | -  | -         | -  | -         | -  | -         | GW D7 907  | GW D7 908 | -  | -         | -  | -         |
| 630                       |  | -  | -         | -  | -         | -  | -         | GW D7 909  | GW D7 910 | -  | -         | -  | -         |
| 800                       |  | -  | -         | -  | -         | -  | -         | -  | -         | GW D7 911  | GW D7 912 | -  | -         |
| 1000                      |  | -  | -         | -  | -         | -  | -         | -  | -         | GW D7 913  | GW D7 914 | -  | -         |
| 1250                      |  | -  | -         | -  | -         | -  | -         | -  | -         | -  | -         | GW 97 715  | GW 97 718 |
| 1600                      |  | -  | -         | -  | -         | -  | -         | -  | -         | -  | -         | GW 97 716  | GW 97 719 |

NOTE: MTXM 160c and MTXM 250 can be fixed on the DIN EN 50022 profile using the specific fixing brackets.

|               | ADD-ON RESIDUAL CURRENT DEVICES   |           |           |   |                        |
|---------------|---|-----------|-----------|---|------------------------|
|               | "L" SHAPED  |           |           | PLACED BELOW  |                        |
|               |  |           |           |  |                        |
| Suitable for  | MTX/M 160c  | MTX/E 160 | MTX/M 250 | MTX/E/M 320   | MTXM 400 - MTX/E/M 630 |
| Versions      | For 4P circuit breakers only  |           |           | For 4P circuit breakers only  |                        |
| Instantaneous | GW D8 242   | GW D8 244 | GW D8 246 | -   | -                      |
| Adjustable    | GW D8 241 (reduced height)  | GW D8 245 | GW D8 247 | GW D8 248 (up to 500A)  | GW D8 249 (up to 500A) |
|               | GW D8 243   |           |           |   |                        |

NOTE: the L-shaped devices can be fixed on the DIN EN 50022 profile using the specific bracket.

For the GWD8241 add-on residual current device, use the GWD8266 fixing bracket. For the GWD8242, GWD8243, GWD8244 and GWD8245 residual current devices, use the GWD8263 fixing bracket. For the GWD8246 and GWD8247 residual current devices, use the GWD8264 fixing bracket.

|                |                   | OPENING RELEASES   |                    |             |  |                    |                                  |
|----------------|-------------------|--|--------------------|-------------|--|--------------------|----------------------------------|
|                |                   | SHUNT-TRIP   |                    |             | UNDER VOLTAGE  |                    |                                  |
|                |                   |  |                    |             |  |                    |                                  |
| Suitable for   |                   | MTX/E/M 160c - 160 - 250   | MTX/E/M 320 - 1000 | MTSE/M 1600 | MTX/E/M 160c - 160 - 250   | MTX/E/M 320 - 1000 | MTSE/M 1600                      |
| Supply voltage | 12V DC            | GW D8 101  | -                  | -           | -  | -                  | -                                |
|                | 24-30V AC/DC      | GW D8 102  | GW D8 107          | GW 98 260   | GW D8 117  | GW D8 122          | GW 98 281 (AC)<br>GW 98 288 (DC) |
|                | 48-60V AC/DC      | GW D8 103  | GW D8 108          | GW 98 261   | GW D8 118  | GW D8 123          | GW 98 282 (AC)<br>GW 98 289 (DC) |
|                | 127V AC - 125V DC | GW D8 104  | GW D8 109          | GW 98 263   | GW D8 119  | GW D8 124          | GW 98 284 (AC)<br>GW 98 291 (DC) |
|                | 240V AC - 250V DC | GW D8 105  | GW D8 110          | GW 98 264   | GW D8 120  | GW D8 125          | GW 98 285 (AC)<br>GW 98 292 (DC) |
|                | 380 - 400V AC     | GW D8 106  | GW D8 111          | GW 98 265   | GW D8 121  | GW D8 126          | GW 98 286 (AC)                   |

## Rotary switch disconnectors

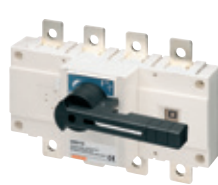
Thanks to their state-of-the-art technological solutions, the **MSS** switch disconnectors guarantee high performance both in AC and in DC, ensuring the maximum hold even in the event of short-circuiting or with a high number of operations in heavy working conditions.



MSS 125



MSS 160



MSS 250



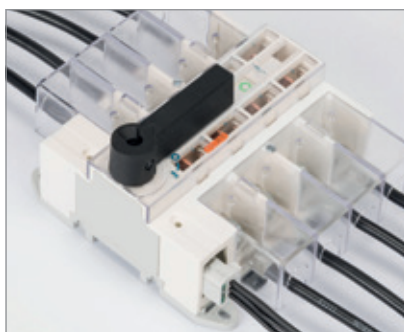
MSS 630



3-way switch  
10 II



MSS 160 ATS



### Fully accessorized

For specific applications, the switch-disconnectors can be fitted with IP65 watertight rotary handles (shaft extension included), auxiliary contacts, terminal covers, parallel connections.



### Perfect integration

Thanks to the dedicated installation kit MSS switch disconnectors are perfectly integrated with the 47 CVX distribution boards. The high versatility of the MSS disconnectors allow a total synergy with the 46 range of automation and distribution boards.




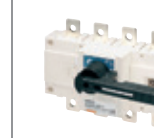








### Reliable change-over

The simplicity of the set-up of the MSS 160 ATS product, the different functions (with excludable automatic return to a priority line) and self-powering (L-N directly from the main line) make it a high performing product and highly competitive in automatic change-over application for 2 low voltage networks.



**Selection tables**

| In [A] | MSS SWITCH DISCONNECTORS  |   |   |   |   |  |  |   |   |   |
|--------|---|---|---|---|---|--|--|---|---|---|
|        | MSS 125   |   | MSS 160   |   | MSS 250   |  | MSS 630  |   | MSS 125<br>THREE-WAY SWITCH (I O II)  | MSS ATS 160<br>AUTOMATIC<br>THREE-WAY SWITCH  |
|        |  |  |  |  |  |  |  |  |  |  |
| 3P     | 4P  | 3P  | 4P  | 3P  | 4P  | 3P   | 4P   | 4P  | 4P  |   |
| 63     | GW 97 721   | GW 97 724   | -   | -   | -   | -  | -  | -   | -   | -   |
| 100    | GW 97 722   | GW 97 725   | -   | -   | -   | -  | -  | -   | -   | -   |
| 125    | GW 97 723   | GW 97 726   | -   | -   | -   | -  | -  | -   | GW 97 761   | -   |
| 160    | -   | -   | GW 97 727   | GW 97 728   | -   | -  | -  | -   | -   | GW 97 767   |
| 250    | -   | -   | -   | -   | GW 97 729   | GW 97 730  | -  | -   | -   | -   |
| 400    | -   | -   | -   | -   | -   | -  | GW 97 731  | GW 97 733   | -   | -   |
| 630    | -   | -   | -   | -   | -   | -  | GW 97 732  | GW 97 734   | -   | -   |





**DOOR COUPLING ROTARY HANDLES - IP65**



| MSS 125 - MSS 160 |            | MSS 250 - MSS 630 |            | MSS 125 - THREE-WAY SWITCH (I O II) |
|-------------------|------------|-------------------|------------|-------------------------------------|
| Black handle      | Red handle | Black handle      | Red handle | Black handle                        |
| GW 98 521         | GW 98 524  | GW 98 522         | GW 98 525  | GW 98 523                           |

Note: all the rotary handles include transmission rods.

**AUXILIARY CONTACTS**

|  |  |  |  |
|---|---|--|---|
| MSS 125 - MSS 160   | MSS 250 - MSS 630   | MSS 125 - THREE-WAY SWITCH (I O II)  | MSS 160 ATS - AUTOMATIC THREE-WAY SWITCH  |
| GW 98 514   | GW 98 515   | GW 98 516  | GW 97 774   |

**TERMINAL COVERS (1 CODE = 1 PIECE)**



| MSS 160   | MSS 250   |           | MSS 630   |           | MSS 160 ATS<br>AUTOMATIC THREE-WAY SWITCH |
|-----------|-----------|-----------|-----------|-----------|---|
| 3P - 4P   | 3P        | 4P        | 3P        | 4P        | 4P  |
| GW 98 508 | GW 98 509 | GW 98 510 | GW 98 511 | GW 98 512 | GW 97 773                                 |

# Distribution boards

## 47 CVX 160 I /E

FLUSH-MOUNTING DISTRIBUTION BOARDS UP TO 160 A



## 47 CVX 630 K /M

MODULAR DISTRIBUTION BOARDS UP TO 630 A - IP43



## Metal boards up to 160A

The CVX160 I and CVX160 E ranges offer the widest choice for protection in indoor contexts, not to mention a modern, practical design.

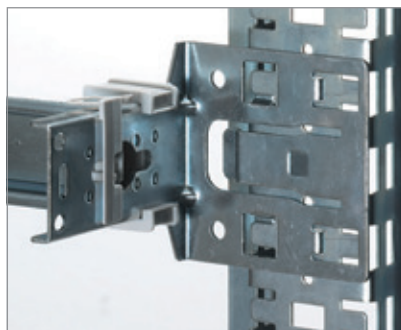
The **CVX 160 I** range has flush-mounting boards with a degree of protection up to IP40 and up to  $I_n=160A$ . The choice of board is simple and quick (only one GW code) because the DIN rails, front panels and all the fixing accessories are already included.

The **CVX 160 E** range has wall-mounting boards with a degree of protection up to IP65 and up to  $I_n=160A$ . The range enables the creation of configurations to suit specific needs, from a minimum capacity of 72 modules to a maximum of 192, choosing the appropriate installation kit (150mm or 200mm pitch).



### Easy and fast installation

The extractable frame allows wiring desk and, subsequently, the installation of the wired frame inside the casing when the system is completed.



### Installation without screws and tools

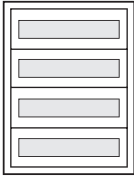
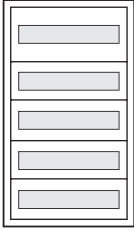
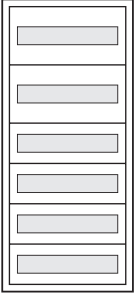



The fixing supports have been designed to be mounted without screws thanks to pre-holed on the function sides. Moreover the innovative support allows the fixing of the din rails on the brackets and their adjustments in depth without using any tools.



### Quick fastening of the insulating panel

The front panels in plastic material allow for quick fixing by means of two inserts  $\frac{1}{4}$  turn and the earthing connection is not necessary. For all range it is supplied a kit for the installation of the hinges on the front panels.







## Selection tables

| CVX 160 I STRUCTURES  |  |  |  |   |
|---|--|--|--|---|
| PRE-ASSEMBLED BOARDS COMPLETE WITH DIN RAILS AND FRONT PANELS, WITH FIXING ACCESSORIES INCLUDED                                     |  |  |  |   |
| STRUCTURES  |  |  |  |   |
| FUNCTIONAL DIM. (LxH)   |  | 600x600mm  | 600x800mm  | 600x1000mm  |
| <b>GENERAL CHARACTERISTICS</b><br>In: up to 160A<br>Capacity: 24 modules* per row<br>Installation: indoors<br>Colour: Grey RAL 7035 |  | <b>NO. EN 50022 MODULES (17.5mm)</b>   |  |   |
|   |  | <b>96</b>  | <b>120</b>   | <b>144</b>  |
| <b>No. of rows x No. of modules</b>   |  | 4 rows x 24 modules  | 5 rows x 24 modules  | 6 rows x 24 modules   |
|   |  |                         |  |  |
| <b>Height of panels with windows:</b>   | <b>(mm)</b>  | 150  | 200 (first row)<br>150 (the other rows)  | 200 (first two rows)<br>150 (the other rows)  |
| <b>IP30</b>   | <br><b>without door</b> | GW 47 072  | GW 47 073  | GW 47 074   |
|   | <b>IP40</b>  | <br><b>glass door</b> | GW 47 082  | GW 47 083   |
| <br><b>solid door</b>                            |  | GW 47 087  | GW 47 088  | GW 47 089   |

\* EN 50022 modules (17.5mm)

# 47 CVX 160 E SURFACE-MOUNTING DISTRIBUTION BOARDS UP TO 160A

## Selection tables

| CVX 160 E STRUCTURES  |   |             |             |             |             |
|---|---|-------------|-------------|-------------|-------------|
| GENERAL CHARACTERISTICS   |   | STRUCTURES  |             |             |             |
| In: up to 160A<br>Capacity: 24 modules per row<br>Installation: indoor<br>Colour: Grey RAL 7035 |   |             |             |             |             |
| FUNCTIONAL DIM. (LxH)   |   | 600x600mm   | 600x800mm   | 600x1000mm  | 600x1200mm  |
| IP30  | without door<br> | GW 47 001 E | GW 47 002 E | GW 47 003 E | GW 47 004 E |
|   | glass door<br>   | GW 47 011 E | GW 47 012 E | GW 47 013 E | GW 47 014 E |
| IP40  | solid door<br>   | GW 47 021 E | GW 47 022 E | GW 47 023 E | GW 47 024 E |
|   | glass door<br> | GW 47 031 E | GW 47 032 E | GW 47 033 E | GW 47 034 E |
| IP55  | solid door<br> | GW 47 041 E | GW 47 042 E | GW 47 043 E | GW 47 044 E |
|   | solid door<br> | -           | GW 47 062 E | GW 47 063 E | GW 47 064 E |

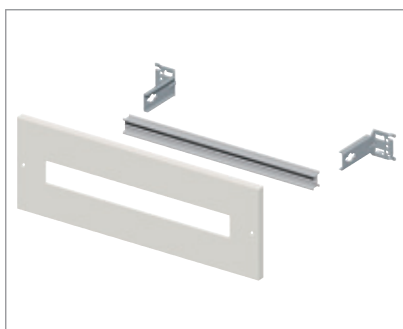
NOTE: the codes do not include the DIN rail and front panels.

## Metal boards up to 630A

The CVX 630 K and CVX 630 M ranges offer the widest choice for protection in indoor contexts, not to mention a modern, practical design.

The **CVX 630 K** range offers both wall-mounting and floor-mounting modular boards with a degree of protection up to IP43 and up to In=630A.

The **CVX 630 M** range offers both wall-mounting and floor-mounting monobloc boards with a degree of protection up to IP55 and up to In=630A.



### Synergy

CVX 630 K and CVX 630 M use the same installation kit and accessories as for modular and moulded-case devices.



### Simple and quick wiring

The CVX 630K modular distribution boards are designed to make wiring and assembly operations easier and quicker. In fact, the wiring can be carried out with the structures "fully open" and then the board assembly can be completed.









### Easier assembly and maintenance

The metallic components of the board ensure a contact earth connection, hence avoiding the need for additional connections.

The front panels are fitted with hinges and unlosable screws for easier maintenance on the installed board.

# 47 CVX 630 K MODULAR BOARDS UP TO 630A - IP43







## Selection tables

| CVX 630 K (WALL-MOUNTING) STRUCTURES |   |                    |                    |                    |                    |                    |                    |
|--------------------------------------|---|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                                      |   | STRUCTURES         |                    |                    |                    |                    |                    |
| FUNCTIONAL DIM. (LxH)                |   | 600x1000mm         | 600x1200mm         | 850x1000mm         |                    | 850x1200mm         |                    |
| Modular capacity                     | Pitch 150mm   | 144 mod.<br>(24x6) | 192 mod.<br>(24x8) | 144 mod.<br>(24x6) | 216 mod.<br>(36x6) | 192 mod.<br>(24x8) | 288 mod.<br>(36x8) |
|                                      | Pitch 200mm   | 120 mod.<br>(24x5) | 144 mod.<br>(24x6) | 120 mod.<br>(24x5) | 180 mod.<br>(36x5) | 144 mod.<br>(24x6) | 216 mod.<br>(36x6) |
| Structures                           |    | GW 45 004          | GW 45 005          | GW 45 014          |                    | GW 45 015          |                    |
| Sides                                |   | GW 45 024          | GW 45 025          | GW 45 024          |                    | GW 45 025          |                    |
| Curved glass doors                   |  | GW 45 104          | GW 45 105          | GW 45 114          |                    | GW 45 115          |                    |
| Solid doors                          |  | GW 45 124          | GW 45 125          | GW 45 134          |                    | GW 45 135          |                    |
| Internal cable compartment           |  | -                  | -                  | GW 45 034          |                    | GW 45 035          |                    |
| Side-by-side installation kit        |  | GW 45 504          | GW 45 505          | GW 45 504          |                    | GW 45 505          |                    |






### CVX 630 K (FLOOR-MOUNTING) STRUCTURES

#### STRUCTURES









| FUNCTIONAL DIM. (LxH)         |   | 600x1600mm          | 600x1800mm          | 600x2000mm          | 850x1600mm          |                     | 850x1800mm          |                     | 850x2000mm          |                     |
|-------------------------------|---|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Modular capacity              | Pitch 150mm   | 240 mod.<br>(24x10) | 288 mod.<br>(24x12) | 312 mod.<br>(24x13) | 240 mod.<br>(24x10) | 360 mod.<br>(36x10) | 288 mod.<br>(24x12) | 432 mod.<br>(36x12) | 312 mod.<br>(24x13) | 468 mod.<br>(36x13) |
|                               | Pitch 200mm   | 192 mod.<br>(24x8)  | 216 mod.<br>(24x9)  | 240 mod.<br>(24x10) | 192 mod.<br>(24x8)  | 288 mod.<br>(36x8)  | 216 mod.<br>(24x9)  | 324 mod.<br>(36x9)  | 240 mod.<br>(24x10) | 360 mod.<br>(36x10) |
| Structures                    |    | GW 45 007           | GW 45 008           | GW 45 009           | GW 45 017           |                     | GW 45 018           |                     | GW 45 019           |                     |
| Sides                         |    | GW 45 027           | GW 45 028           | GW 45 029           | GW 45 027           |                     | GW 45 028           |                     | GW 45 029           |                     |
| Curved glass doors            |    | GW 45 107           | GW 45 108           | GW 45 109           | GW 45 117           |                     | GW 45 118           |                     | GW 45 119           |                     |
| Solid doors                   |  | GW 45 127           | GW 45 128           | GW 45 129           | GW 45 137           |                     | GW 45 138           |                     | GW 45 139           |                     |
| Internal cable compartment    |  | -                   | -                   | -                   | GW 45 037           |                     | GW 45 038           |                     | GW 45 039           |                     |
| Side-by-side installation kit |  | GW 45 507           | GW 45 508           | GW 45 509           | GW 45 507           |                     | GW 45 508           |                     | GW 45 509           |                     |

#### EXTERNAL CABLE COMPARTMENT









| FUNCTIONAL DIM. (LxH)      | 400x1600mm  | 400x1800mm | 400x2000mm |           |
|----------------------------|---|------------|------------|-----------|
| External cable compartment |  | GW 45 047  | GW 45 048  | GW 45 049 |
| Internal solid doors       |  | GW 45 352  | GW 45 353  | GW 45 354 |
| External solid doors       |  | GW 45 147  | GW 45 148  | GW 45 149 |

# 47 CVX 630 M MONOBLOC DISTRIBUTION BOARDS UP TO 630A - IP55




## Selection tables

| CVX 630 M (WALL-MOUNTING) STRUCTURES |   |                    |                    |                    |                    |                    |                    |
|--------------------------------------|---|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| FUNCTIONAL DIM. (LxH)                |   | STRUCTURES         |                    |                    |                    |                    |                    |
|                                      |   | 600x1000mm         | 600x1200mm         | 850x1000mm         |                    | 850x1200mm         |                    |
| Modular capacity                     | Pitch 150mm   | 144 mod.<br>(24x6) | 192 mod.<br>(24x8) | 144 mod.<br>(24x6) | 216 mod.<br>(36x6) | 192 mod.<br>(24x8) | 288 mod.<br>(36x8) |
|                                      | Pitch 200mm   | 120 mod.<br>(24x5) | 144 mod.<br>(24x6) | 120 mod.<br>(24x5) | 180 mod.<br>(36x5) | 144 mod.<br>(24x6) | 216 mod.<br>(36x6) |
| Structures                           |                | GW 45 054          | GW 45 055          | GW 45 064          |                    | GW 45 065          |                    |
| Solid side panels                    |               | GW 45 074          | GW 45 075          | GW 45 074          |                    | GW 45 075          |                    |
| Aerated side panels                  |              | GW 45 394          | GW 45 395          | GW 45 394          |                    | GW 45 395          |                    |
| Curved glass doors                   |              | GW 45 154          | GW 45 155          | GW 45 164          |                    | GW 45 165          |                    |
| Solid doors                          |              | GW 45 174          | GW 45 175          | GW 45 184          |                    | GW 45 185          |                    |
| Internal cable compartment           |              | -                  | -                  | GW 45 084          |                    | GW 45 085          |                    |
| Side-by-side installation kit        | Plates       | GW 45 533          | GW 45 533          | GW 45 533          |                    | GW 45 533          |                    |
|                                      | IP55 Gasket  | GW 47 473          | GW 47 473          | GW 47 473          |                    | GW 47 473          |                    |



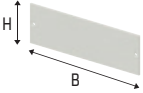







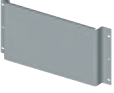



**CVX 630 M (FLOOR-MOUNTING) STRUCTURES**
**STRUCTURES**

| FUNCTIONAL DIM. (LxH)         |   | 600x1600mm          | 600x1800mm          | 600x2000mm          | 850x1600mm          |                     | 850x1800mm          |                     | 850x2000mm          |                     |
|-------------------------------|---|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Modular capacity              | Pitch 150mm   | 240 mod.<br>(24x10) | 288 mod.<br>(24x12) | 312 mod.<br>(24x13) | 240 mod.<br>(24x10) | 360 mod.<br>(36x10) | 288 mod.<br>(24x12) | 432 mod.<br>(36x12) | 312 mod.<br>(24x13) | 468 mod.<br>(36x13) |
|                               | Pitch 200mm   | 192 mod.<br>(24x8)  | 216 mod.<br>(24x9)  | 240 mod.<br>(24x10) | 192 mod.<br>(24x8)  | 288 mod.<br>(36x8)  | 216 mod.<br>(24x9)  | 324 mod.<br>(36x9)  | 240 mod.<br>(24x10) | 360 mod.<br>(36x10) |
| Structures                    |                | GW 45 057           | GW 45 058           | GW 45 059           | GW 45 067           |                     | GW 45 068           |                     | GW 45 069           |                     |
| Solid side panels             |                | GW 45 077           | GW 45 078           | GW 45 079           | GW 45 077           |                     | GW 45 078           |                     | GW 45 079           |                     |
| Aerated side panels           |               | GW 45 397           | GW 45 398           | GW 45 399           | GW 45 397           |                     | GW 45 398           |                     | GW 45 399           |                     |
| Curved glass doors            |              | GW 45 157           | GW 45 158           | GW 45 159           | GW 45 167           |                     | GW 45 168           |                     | GW 45 169           |                     |
| Solid doors                   |              | GW 45 177           | GW 45 178           | GW 45 179           | GW 45 187           |                     | GW 45 188           |                     | GW 45 189           |                     |
| Internal cable compartment    |              | -                   | -                   | -                   | GW 45 087           |                     | GW 45 088           |                     | GW 45 089           |                     |
| Side-by-side installation kit | Plates       | GW 47 472           | GW 47 472           | GW 47 472           | GW 47 472           |                     | GW 47 472           |                     | GW 47 472           |                     |
|                               | IP55 Gasket  | GW 47 473           | GW 47 473           | GW 47 473           | GW 47 473           |                     | GW 47 473           |                     | GW 47 473           |                     |

**EXTERNAL CABLE COMPARTMENT**

| FUNCTIONAL DIM. (LxH)  | 400x1600mm | 400x1800mm | 400x2000mm |
|--|------------|------------|------------|
| External cable compartment  | GW 45 097  | GW 45 098  | GW 45 099  |
| Internal solid doors        | GW 45 352  | GW 45 353  | GW 45 354  |
| External solid doors        | GW 45 197  | GW 45 198  | GW 45 199  |

# CVX 630 K - M DISTRIBUTION BOARDS UP TO 630A

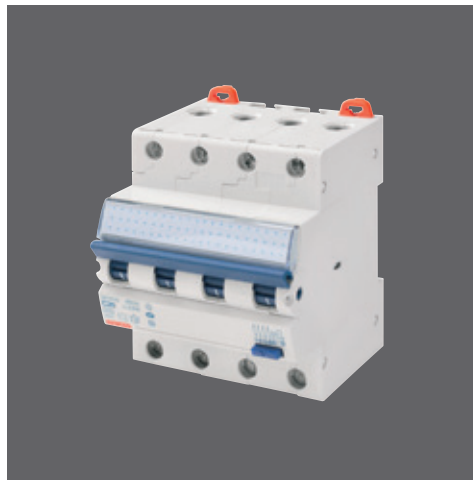
| CONFIGURATION FOR CVX 630 K - M BOARDS |   |                                    |  | Panel height (mm) | L= 400mm (10 mod.) | L= 600mm (24 mod.) | L= 850mm (36 mod.) |
|--|---|------------------------------------|--|-------------------|--------------------|--------------------|--------------------|
| Installation kit on DIN rail           |    | DIN EN 50022<br>double - aluminium |   | 150               | GW 45 291          | GW 45 201          | GW 45 206          |
|  |   |                                    |  | 200               | GW 45 292          | GW 45 202          | GW 45 207          |
|  |   |                                    |  | 300               | GW 45 293          | GW 45 203          | GW 45 208          |
|  |   |                                    |  | 300 (1)           | -                  | GW 45 204          | GW 45 209          |
| Solid front panels                     |    |                                    |  | 50                | GW 45 341          | GW 45 301          | GW 45 321          |
|  |   |                                    |  | 100               | GW 45 342          | GW 45 302          | GW 45 322          |
|  |   |                                    |  | 150               | GW 45 343          | GW 45 303          | GW 45 323          |
|  |   |                                    |  | 200               | GW 45 344          | GW 45 304          | GW 45 324          |
|  |   |                                    |  | 300               | GW 45 345          | GW 45 305          | GW 45 325          |
|  |   |                                    |  | 400               | GW 45 346          | GW 45 306          | GW 45 326          |
|  |   |                                    |  | 600               | GW 45 347          | GW 45 307          | GW 45 327          |
|  |   |                                    |  | 800               | GW 45 348          | -                  | -                  |
| Front panels for instruments           |    |                                    |  | 200               | -                  | GW 45 374          | GW 45 379          |
| Front aerated panels                   |    |                                    |  | 200               | -                  | GW 45 362          | GW 45 367          |
| DIN rails                              |    | DIN EN 50022<br>double - aluminium |   | -                 | -                  | GW 45 401          | GW 45 402          |
| Profiles for fixing directly on frame  |   | DIN EN 50022                       |   | -                 | -                  | GW 45 411          | GW 45 416          |
|  |   | DIN EN 50035                       |  | -                 | -                  | GW 45 412          | GW 45 417          |
| Back-mounting plates                   |  |                                    |  | 200               | -                  | GW 45 421          | GW 45 431          |
|  |   |                                    |  | 300               | GW 45 406          | -                  | -                  |
|  |   |                                    |  | 400               | -                  | GW 45 422          | GW 45 432          |
|  |   |                                    |  | 600               | -                  | GW 45 423          | GW 45 433          |
| Earth terminal blocks                  |  |                                    |  | -                 | GW 45 537          | GW 45 538          | -                  |
| Earth busbar                           |  |                                    |  | -                 | -                  | GW 45 534          | GW 45 535          |
| Horizontal dividers                    |  |                                    |  | -                 | -                  | GW 45 453          | GW 45 454          |

(1) Specific version for MTX/M 160c, MTX/E 160, MTX/M 250, combined with an "L" shaped add-on residual current device.

| COMPLEMENTARY ITEMS                                   |                                     |   |
|---|-------------------------------------|---|
| <b>Depth adapter</b>                                  |                                     | GW 49 209                                 |
| <b>Pair of hinges</b>                                 |                                     | GW 45 532                                 |
| <b>Pair of supports for wiring trunking</b>           |                                     | GW 45 521                                 |
| <b>Pair of supports for horizontal terminal block</b> |                                     | GW 45 526                                 |
| <b>Pair of supports for vertical terminal block</b>   |                                     | GW 45 527<br>(internal cable compartment) |
|   |                                     | GW 45 528<br>(external cable compartment) |
| <b>DIN profiles<br/>L = 2 metres</b>                  | EN 50022 (DIN35)                    | GW 47 691                                 |
|   | EN 50035 (G32)                      | GW 47 692                                 |
|   | EN 50024 (C30)                      | GW 47 693                                 |
| <b>IP43 gasket</b>                                    | for CVX 630 K                       | GW 47 494                                 |
| <b>Rotating handle with key</b>                       |                                     | GW 47 494                                 |
| <b>4 surface-mounting brackets</b>                    | for CVX 630 K wall-mounting boards  | GW 45 536                                 |
| <b>2 surface-mounting brackets</b>                    | for CVX 630 M floor-mounting boards | GW 47 491                                 |

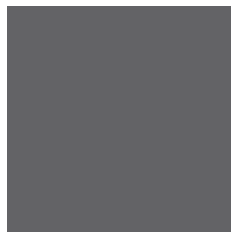






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