

# Product data sheet

Specifications



## Circuit breaker, EasyPact MVS, 3 Poles, 2500A, 50kA, EDO, ET6, drawout, electrical

MVS25N3NW6L

### Main

|                                |   |
|--------------------------------|---|
| Range                          | EasyPact                                    |
| Product name                   | MVS25N                                      |
| Device short name              | MVS25N                                      |
| Product or component type      | Circuit breaker                             |
| Device application             | Distribution                                |
| Poles description              | 3P  |
| Protected poles description    | 3P 3d                                       |
| [In] rated current             | 2500 A at 40 °C                             |
| Network type                   | AC  |
| [Ue] rated operational voltage | 690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Breaking capacity code         | N   |
| Suitability for isolation      | Yes conforming to IEC 60947-2               |
| Utilisation category           | Category B                                  |
| Trip unit name                 | ET6G  |
| Trip unit technology           | Electronic                                  |
| Trip unit rating               | 2500 A                                      |

### Complementary

|  |  |
|--|--|
| Network frequency                      | 50/60 Hz   |
| Control type                           | Electrically operated  |
| Mounting mode                          | Drawout  |
| Mounting support                       | Base plate<br>Rail   |
| Connection position                    | Horizontal<br>Vertical   |
| Location of connection                 | Rear   |
| [Ui] rated insulation voltage          | 1000 V AC 50/60 Hz conforming to IEC 60947-2                   |
| [Uimp] rated impulse withstand voltage | 12 kV conforming to IEC 60947-2                                |
| Circuit breaker CT rating              | 2500 A   |
| Breaking capacity                      | 50 kA Icu at 220...440 V AC 50/60 Hz conforming to IEC 60947-2 |

|  |  |
|--|--|
| <b>[Ics] rated service breaking capacity</b>         | 50 kA (Ics) at 220...440 V AC 50/60 Hz conforming to IEC 60947-2   |
| <b>Mechanical durability</b>                         | 20000 cycles (with maintenance) conforming to IEC 60947-2<br>10000 cycles (without maintenance) conforming to IEC 60947-2  |
| <b>Electrical durability</b>                         | Category B: 5000 cycles 440 V AC 50/60 Hz without maintenance conforming to IEC 60947-2<br>Category B: 2500 cycles 690 V AC 50/60 Hz without maintenance conforming to IEC 60947-2               |
| <b>Connection pitch</b>                              | 115 mm without spreader  |
| <b>Contact position indicator</b>                    | Yes  |
| <b>[Icm] rated short-circuit making capacity</b>     | 105 kA (Icm) at 220...440 V AC 50/60 Hz conforming to IEC 60947-2  |
| <b>[Icw] rated short-time withstand current</b>      | 50 kA (1 s) at 220...440 V AC 50/60 Hz conforming to IEC 60947-2<br>42 kA (1 s) at 690 V AC 50/60 Hz conforming to IEC 60947-2<br>25 kA (3 s) at 440/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| <b>Trip unit protection functions</b>                | LSIG   |
| <b>Protection type</b>                               | Overload protection (long time)<br>Short time short-circuit protection<br>Earth fault<br>Instantaneous short-circuit protection  |
| <b>Fault indication</b>                              | Internal fault<br>Earth fault<br>Overload<br>Short-circuit   |
| <b>Long time pick-up adjustment type Ir</b>          | Adjustable 9 settings  |
| <b>Long time pick-up adjustment range</b>            | 0.4...1 x In   |
| <b>Long time delay adjustment type</b>               | Adjustable 9 settings  |
| <b>[Tr] long-time delay adjustment range</b>         | 0.5...24 s at 6 x Ir   |
| <b>Short-time pick-up adjustment type Isd</b>        | Adjustable 9 settings  |
| <b>[Isd] short-time pick-up adjustment range</b>     | 1.5...10 x Ir  |
| <b>Short-time delay adjustment type</b>              | Adjustable 5 settings  |
| <b>[Tsd] short-time delay adjustment range</b>       | 100...400 ms   |
| <b>Instantaneous pick-up adjustment type Ii</b>      | Adjustable 9 settings  |
| <b>Instantaneous pick-up adjustment range</b>        | 2...15 x In<br>Off   |
| <b>Ground-fault pick-up adjustment type</b>          | Adjustable 9 settings  |
| <b>Ground-fault time delay adjustment type -tg</b>   | Adjustable 5 settings  |
| <b>[Tg] ground-fault time delay adjustment range</b> | 100...400 ms   |
| <b>[Ig] ground-fault pick-up adjustment range</b>    | 500...1200 A   |
| <b>Zone selective interlocking ZSI</b>               | With   |
| <b>Current sensor rating range</b>                   | 1000/4000 A  |
| <b>Maximum breaking time</b>                         | 25 ms  |
| <b>Maximum closing response time</b>                 | 70 ms  |
| <b>Height</b>  | 439 mm   |
| <b>Width</b>   | 441 mm   |

|                                       |   |
|---------------------------------------|---|
| Depth                                 | 395 mm  |
| Net weight                            | 90 kg   |
| <b>Environment</b>                    |   |
| Standards                             | IEC 60947-2   |
| Product certifications                | CCC<br>CCS<br>IEC<br>GOST   |
| Pollution degree                      | 4 conforming to IEC 60664-1   |
| IP degree of protection               | IP40  |
| Ambient air temperature for operation | -5...70 °C  |
| Ambient air temperature for storage   | -40...85 °C without control unit<br>-25...85 °C with control unit   |
| <b>Packing Units</b>                  |   |
| Unit Type of Package 1                | PCE   |
| Number of Units in Package 1          | 1   |
| Package 1 Height                      | 42.0 cm   |
| Package 1 Width                       | 35.0 cm   |
| Package 1 Length                      | 50.0 cm   |
| Package 1 Weight                      | 38.0 kg   |
| <b>Offer Sustainability</b>           |   |
| Sustainable offer status              | Green Premium product   |
| REACH Regulation                      | <a href="#">REACH Declaration</a>   |
| EU RoHS Directive                     | Compliant<br><a href="#">EU RoHS Declaration</a>  |
| Mercury free                          | Yes   |
| China RoHS Regulation                 | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information |
| RoHS exemption information            | <a href="#">Yes</a>   |
| Environmental Disclosure              | <a href="#">Product Environmental Profile</a>   |
| Circularity Profile                   | <a href="#">End of Life Information</a>   |
| PVC free                              | Yes   |
| <b>Contractual warranty</b>           |   |
| Warranty                              | 18 months   |







(1)

| $I_g = \ln \times \dots$                  | A   | B   | C   | D   | E   | F   | G    | H    | J    |
|---|-----|-----|-----|-----|-----|-----|------|------|------|
| $\ln \leq 400 \text{ A}$                  | 0.3 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8  | 0.9  | 1    |
| $400 \text{ A} < \ln \leq 1000 \text{ A}$ | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8  | 0.9  | 1    |
| $\ln \geq 1250 \text{ A}$                 | 500 | 640 | 720 | 800 | 880 | 960 | 1040 | 1120 | 1200 |



(1)

| lg = ln x...        | A   | B   | C   | D   | E   | F   | G    | H    | J    |
|---------------------|-----|-----|-----|-----|-----|-----|------|------|------|
| ln ≤ 400 A          | 0.3 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8  | 0.9  | 1    |
| 400 A < ln ≤ 1000 A | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8  | 0.9  | 1    |
| ln ≥ 1250A          | 500 | 640 | 720 | 800 | 880 | 960 | 1040 | 1120 | 1200 |

Recommended replacement(s)