

# MVS40N3MW2L

## EP MVS CB 4000A 55kA 3P MDO ET2 drawout manual Circuit breaker



### Main

|                             |                               |
|-----------------------------|-------------------------------|
| Range of product            | EasyPact MVS                  |
| Circuit breaker name        | MVS40N                        |
| Device short name           | MVS40N                        |
| Circuit breaker application | Standard                      |
| Poles description           | 3P                            |
| Protected poles description | 3P 3d                         |
| Network type                | AC                            |
| Breaking capacity code      | N - 50 kA                     |
| Suitability for isolation   | Yes conforming to IEC 60947-2 |
| Utilisation category        | Category B                    |
| Trip unit name              | ET2I                          |
| Trip unit technology        | Micro-processor based         |
| Trip unit rating            | 4000 A (-5...70 °C)           |

### Complementary

|   |  |
|---|--|
| Network frequency                         | 50/60 Hz   |
| Control type                              | Manually operated  |
| Mounting mode                             | Drawout  |
| Mounting support                          | Base plate<br>Rail   |
| Connection position                       | Horizontal<br>Vertical   |
| Location of connection                    | Rear   |
| [In] rated current                        | 4000 A (40 °C)   |
| [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  |
| [Ue] rated operational voltage            | 690 V AC 50/60 Hz conforming to IEC 60947-2  |
| Circuit breaker CT rating                 | 4000 A   |
| Breaking capacity                         | 55 kA (Icu) at 220...440 V AC 50/60 Hz conforming to IEC 60947-2   |
| [Ics] rated service breaking capacity     | 55 kA (Ics) at 220...440 V AC 50/60 Hz conforming to IEC 60947-2   |
| Mechanical durability                     | 10000 cycles (without maintenance) conforming to IEC 60947-2<br>20000 cycles (with maintenance) conforming to IEC 60947-2  |
| Electrical durability                     | 2500 cycles (without maintenance), category B at 690 V AC 50/60 Hz, conforming to IEC 60947-2<br>5000 cycles (without maintenance), category B at 440 V AC 50/60 Hz, conforming to IEC 60947-2   |
| Connection pitch                          | 115 mm (without spreader)  |
| Contact position indicator                | Yes  |
| [Icm] rated short-circuit making capacity | 121 kA (Icm) at 220...440 V AC 50/60 Hz conforming to IEC 60947-2  |
| [Icw] rated short-time withstand current  | 30 kA (3 s) at 440/690 V AC 50/60 Hz conforming to IEC 60947-2<br>55 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 |
| Trip unit protection functions            | LI   |
| Protection type                           | Instantaneous short-circuit protection<br>Overload protection (long time)  |
| Fault indication                          | Overload<br>Short-circuit<br>Internal fault  |
| Long time pick-up adjustment type Ir      | Adjustable 9 settings  |

|  |                                      |
|--|--------------------------------------|
| Long time pick-up adjustment range       | 0.4...1 x I <sub>n</sub>             |
| Long time delay adjustment type          | Adjustable 9 settings                |
| [Tr] long-time delay adjustment          | 0.5...24 s (6 x I <sub>r</sub> )     |
| Thermal memory                           | 20 minutes before and after tripping |
| Instantaneous pick-up adjustment type li | Adjustable 9 settings                |
| Instantaneous pick-up adjustment range   | 1.5...10 x I <sub>r</sub>            |
| Zone selective interlocking ZSI          | With                                 |
| Current sensor rating range              | 1000/4000 A                          |
| Maximum breaking time                    | 25 ms                                |
| Closing response time                    | < 70 ms                              |
| Height                                   | 439 mm                               |
| Width                                    | 441 mm                               |
| Depth                                    | 395 mm                               |
| Product weight                           | 90 kg                                |

## Environment

|                                       |   |
|---------------------------------------|---|
| Standards                             | IEC 60947-2   |
| Product certifications                | CCC<br>GOST<br>IEC<br>CCS   |
| IP degree of protection               | IP40  |
| Pollution degree                      | 4 conforming to IEC 60664-1   |
| Ambient air temperature for operation | -5...70 °C  |
| Ambient air temperature for storage   | -25...85 °C (with control unit)<br>-40...85 °C (without control unit) |