

Product data sheet

Specifications



Circuit breaker, EasyPact MVS, 4 Poles, 1000A, 50kA, EDO, ETA6, drawout, electrical

MVS10N4NW6A

Main

| | |
|--------------------------------|---|
| Range | EasyPact |
| Product name | MVS10N |
| Device short name | MVS10N |
| Product or component type | Circuit breaker |
| Device application | Distribution |
| Poles description | 4P |
| Protected poles description | 4P 4d |
| Neutral position | Left |
| [In] rated current | 1000 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 | ETA6G |
| Trip unit technology | Electronic |
| Trip unit rating | 1000 A |

Complementary

| | |
|--|--|
| Network frequency | 50/60 Hz |
| Control type | Electrically operated |
| Mounting mode | Drawout |
| Mounting support | Base plate Rail |
| Connection position | Horizontal 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 | 1000 A |

| | |
|---|--|
| Breaking capacity | 50 kA Icu at 220...440 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ics] rated service breaking capacity | 50 kA (Ics) at 220...440 V AC 50/60 Hz conforming to IEC 60947-2 |
| Mechanical durability | 20000 cycles (with maintenance) conforming to IEC 60947-2 10000 cycles (without maintenance) conforming to IEC 60947-2 |
| Electrical durability | Category B: 6000 cycles 440 V AC 50/60 Hz without maintenance conforming to IEC 60947-2 Category B: 4000 cycles 690 V AC 50/60 Hz without maintenance conforming to IEC 60947-2 |
| Connection pitch | 115 mm without spreader |
| Contact position indicator | Yes |
| [Icm] rated short-circuit making capacity | 105 kA (Icm) at 220...440 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Icw] rated short-time withstand current | 50 kA (1 s) at 220...440 V AC 50/60 Hz conforming to IEC 60947-2 42 kA (1 s) at 690 V AC 50/60 Hz conforming to IEC 60947-2 25 kA (3 s) at 440/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Neutral protection setting | Without protection (3D) 0.5 x Ir (3D + N/2) 1 x Ir (4D) |
| Trip unit protection functions | LSIG |
| Protection type | Short time short-circuit protection Instantaneous short-circuit protection Overload protection (long time) Earth fault |
| Fault indication | Internal fault Overload Earth fault Short-circuit |
| Long time pick-up adjustment type Ir | Adjustable 9 settings |
| Long time pick-up adjustment range | 0.4...1 x In |
| Long time delay adjustment type | Adjustable 9 settings |
| [Tr] long-time delay adjustment range | 0.5...24 s at 6 x Ir |
| Short-time pick-up adjustment type Isd | Adjustable 9 settings |
| [Isd] short-time pick-up adjustment range | 1.5...10 x Ir |
| Short-time delay adjustment type | Adjustable 5 settings |
| [Tsd] short-time delay adjustment range | 100...400 ms |
| Instantaneous pick-up adjustment type Ii | Adjustable 9 settings |
| Instantaneous pick-up adjustment range | Off 2...15 x In |
| Ground-fault pick-up adjustment type | Adjustable 9 settings |
| Ground-fault time delay adjustment type -tg | Adjustable 5 settings |
| [Tg] ground-fault time delay adjustment range | 100...400 ms |
| [Ig] ground-fault pick-up adjustment range | 0.2...1 x In |
| Zone selective interlocking ZSI | With |
| Display type | Digital display |
| Type of measurement | Current |

| | |
|-------------------------------|------------|
| Current sensor rating range | 400/2000 A |
| Maximum breaking time | 25 ms |
| Maximum closing response time | 70 ms |
| Height | 439 mm |
| Width | 556 mm |
| Depth | 395 mm |
| Net weight | 85 kg |

Environment

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|---------------------------------------|---|
| Standards | IEC 60947-2 |
| Product certifications | GOST CCS IEC CCC |
| 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 -25...85 °C with control unit |

Packing Units

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|------------------------------|---------|
| 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 |

Offer Sustainability

| | |
|----------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |

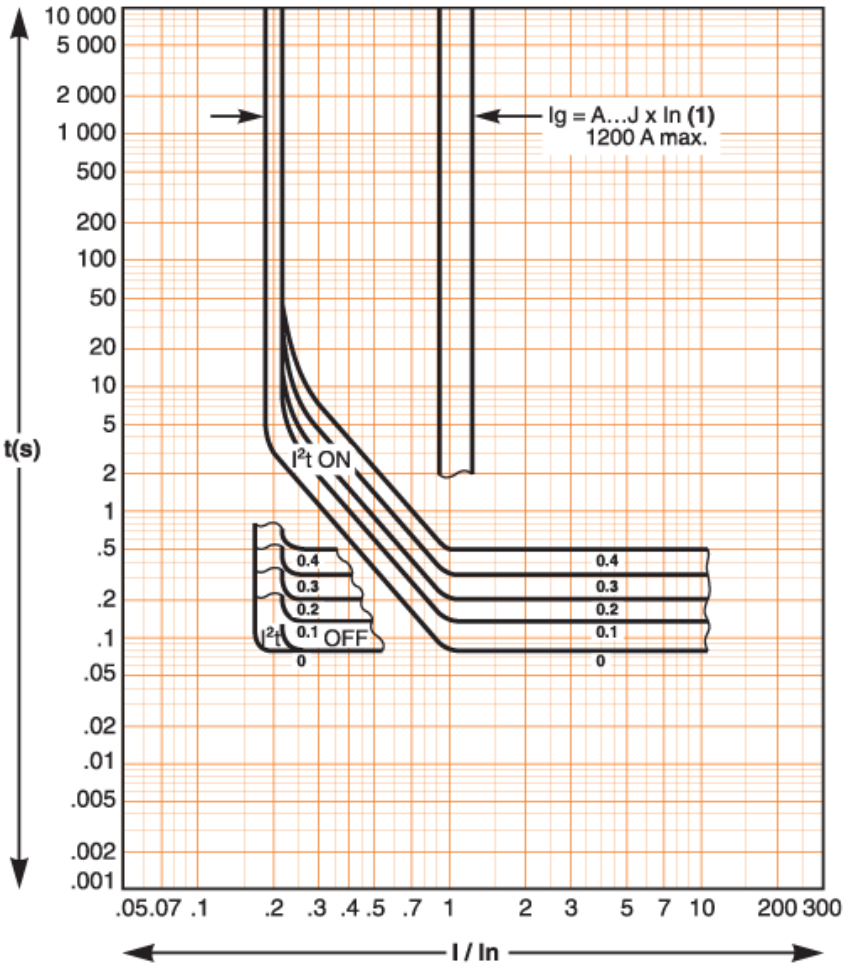
Contractual warranty

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| Warranty | 18 months |
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Performance Curves



(1)

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



(1)

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Recommended replacement(s)