

# MVS16N3MW2L

## EP MVS CB 1600A 50kA 3P MDO ET2 drawout manual Circuit breaker



### Main

Range of product	EasyPact MVS
Circuit breaker name	MVS16N
Device short name	MVS16N
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	1600 A (-5...70 °C)

### Complementary

Network frequency	50/60 Hz
Control type	Manually operated
Mounting mode	Drawout
Mounting support	Base plate Rail
Connection position	Horizontal Vertical
Location of connection	Rear
[In] rated current	1600 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	1600 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	10000 cycles (without maintenance) conforming to IEC 60947-2 20000 cycles (with maintenance) conforming to IEC 60947-2
Electrical durability	4000 cycles (without maintenance), category B at 690 V AC 50/60 Hz, conforming to IEC 60947-2 6000 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	105 kA (Icm) at 220...440 V AC 50/60 Hz conforming to IEC 60947-2
[Icw] rated short-time withstand current	25 kA (3 s) at 440/690 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 50 kA (1 s) at 220...440 V AC 50/60 Hz conforming to IEC 60947-2
Trip unit protection functions	LI
Protection type	Instantaneous short-circuit protection Overload protection (long time)
Fault indication	Overload Short-circuit 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	400/2000 A
Maximum breaking time	25 ms
Closing response time	< 70 ms
Height	439 mm
Width	441 mm
Depth	395 mm
Product weight	70 kg

## Environment

Standards	IEC 60947-2
Product certifications	CCC GOST IEC 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) -40...85 °C (without control unit)