

# Product data sheet

Specifications



## Circuit breaker, EasyPact MVS, 3 Poles, 1600A, 50kA, MDO, ETV2, drawout, manual

MVS16N3MW2V

### Main

Range	EasyPact
Product name	MVS16N
Device short name	MVS16N
Product or component type	Circuit breaker
Device application	Distribution
Poles description	3P
Protected poles description	3P 3d
[In] rated current	1600 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	ETV2I
Trip unit technology	Electronic
Trip unit rating	1600 A

### Complementary

Network frequency	50/60 Hz
Control type	Manually operated
Mounting mode	Drawout
Mounting support	Rail Base plate
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	1600 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 10000 cycles (without maintenance) conforming to IEC 60947-2
<b>Electrical durability</b>	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
<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 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
<b>Trip unit protection functions</b>	LI
<b>Protection type</b>	Overload protection (long time) Instantaneous short-circuit protection
<b>Fault indication</b>	Internal fault Short-circuit Overload
<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>Thermal memory</b>	20 minutes before and after tripping
<b>Instantaneous pick-up adjustment type Ii</b>	Adjustable 9 settings
<b>Instantaneous pick-up adjustment range</b>	1.5...10 x Ir
<b>Zone selective interlocking ZSI</b>	With
<b>Display type</b>	Digital display
<b>Type of measurement</b>	Voltage
<b>Current sensor rating range</b>	400/2000 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
<b>Depth</b>	395 mm
<b>Net weight</b>	70 kg

## Environment

<b>Standards</b>	IEC 60947-2
<b>Product certifications</b>	CCC CCS IEC GOST
<b>Pollution degree</b>	4 conforming to IEC 60664-1
<b>IP degree of protection</b>	IP40
<b>Ambient air temperature for operation</b>	-5...70 °C

Ambient air temperature for storage	-40...85 °C without control unit -25...85 °C with control unit
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Packing Units

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	<a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS declaration</a> 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>

Contractual warranty

Warranty	18 months
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Performance Curves



Recommended replacement(s)