

# Product data sheet

Specifications



## Circuit breaker, EasyPact MVS, 3 Poles, 1600A, 50kA, MDO, ETV6, drawout, manual

MVS16N3MW6V

### 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	ETV6G
Trip unit technology	Electronic
Trip unit rating	1600 A

### 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
[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>	LSIG
<b>Protection type</b>	Short time short-circuit protection Overload protection (long time) Earth fault Instantaneous short-circuit protection
<b>Fault indication</b>	Earth fault Overload Short-circuit Internal fault
<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 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>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

Height	439 mm
Width	441 mm
Depth	395 mm
Net weight	70 kg

### Environment

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

### 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>

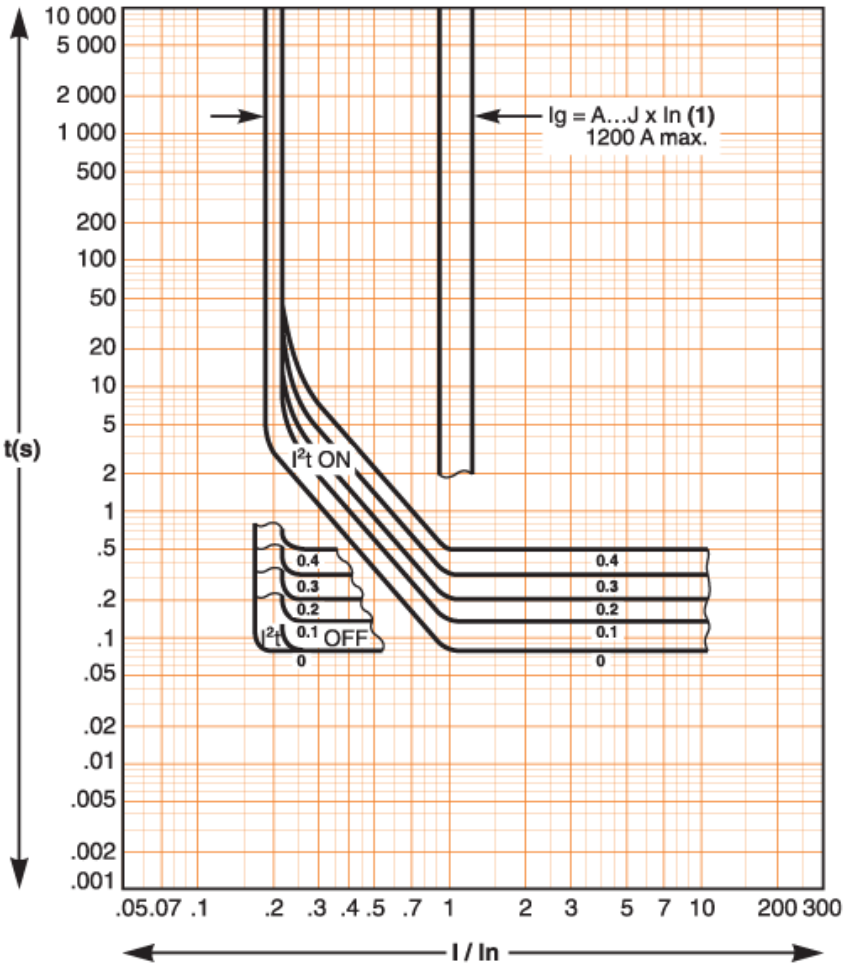
### Contractual warranty

Warranty	18 months
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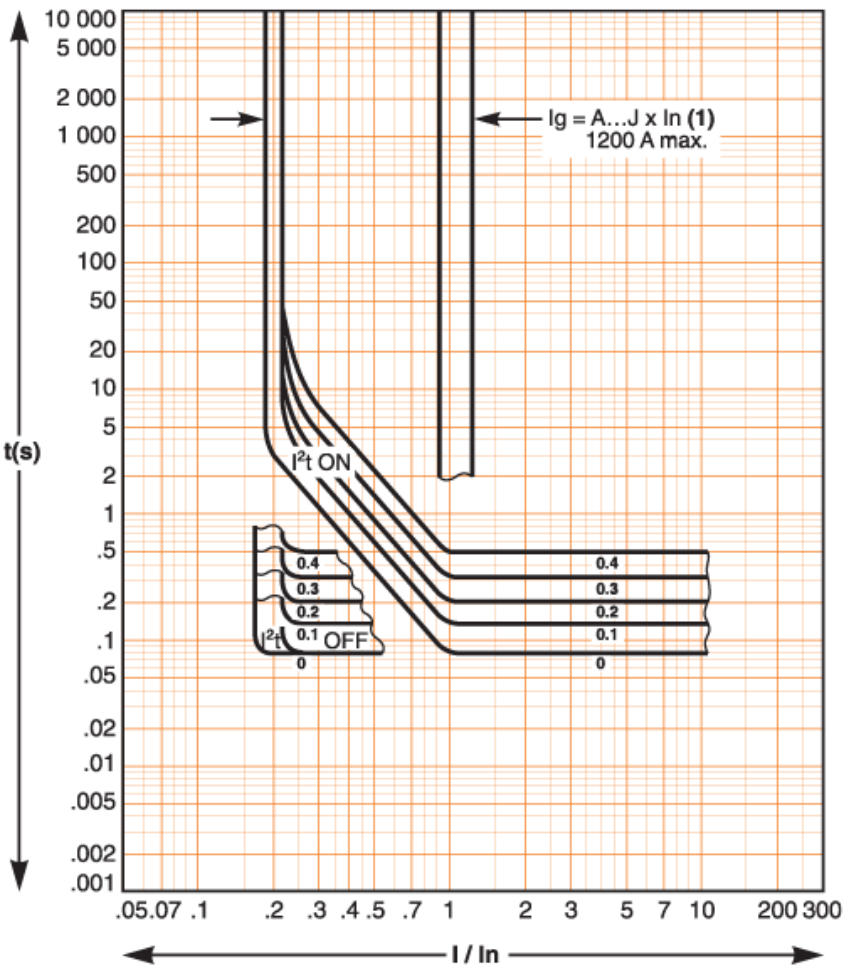


Performance Curves



(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)

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)