

# Product data sheet

Specifications



## Circuit breaker, EasyPact MVS, 4 Poles, 1600A, 50kA, MDO, ETV5, drawout, manual

MVS16N4MW5V

### Main

Range	EasyPact
Product Name	MVS16N
Device Short Name	MVS16N
Product Or Component Type	Circuit breaker
Device Application	Distribution
Poles Description	4P
Protected Poles Description	4P 4d
Neutral Position	Left
[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	ETV5S
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	Vertical Horizontal
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
[Ics] Rated Service Breaking Capacity	50 kA (Ics) at 220...440 V AC 50/60 Hz conforming to IEC 60947-2

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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	LSI
Protection Type	Short time short-circuit protection Instantaneous short-circuit protection Overload protection (long time)
Fault Indication	Internal fault Short-circuit Overload
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
Zone Selective Interlocking Zsi	With
Display Type	Digital display
Type Of Measurement	Voltage
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

Standards	IEC 60947-2
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Product Certifications	CCC GOST CCS IEC
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

## Contractual warranty

Warranty	18 months
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# Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency   RoHS/REACH

## Well-being performance

✓ Mercury Free

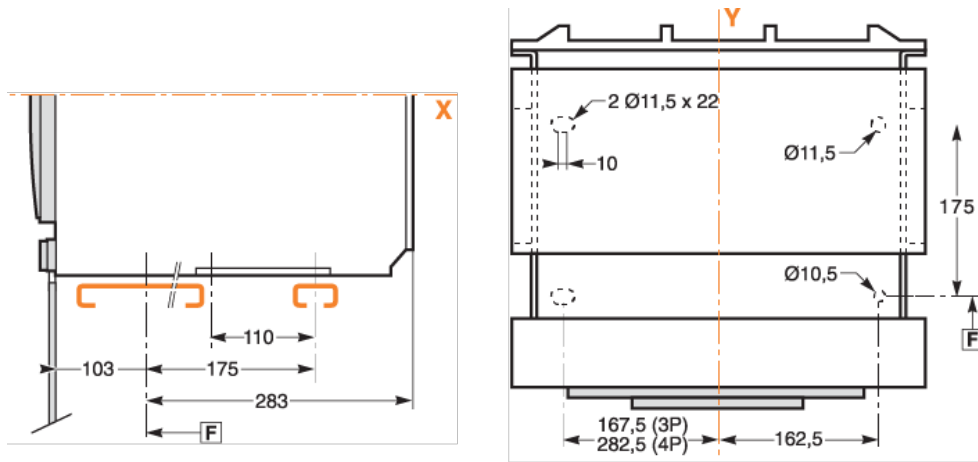
✓ Rohs Exemption Information   [Yes](#)

## Certifications & Standards

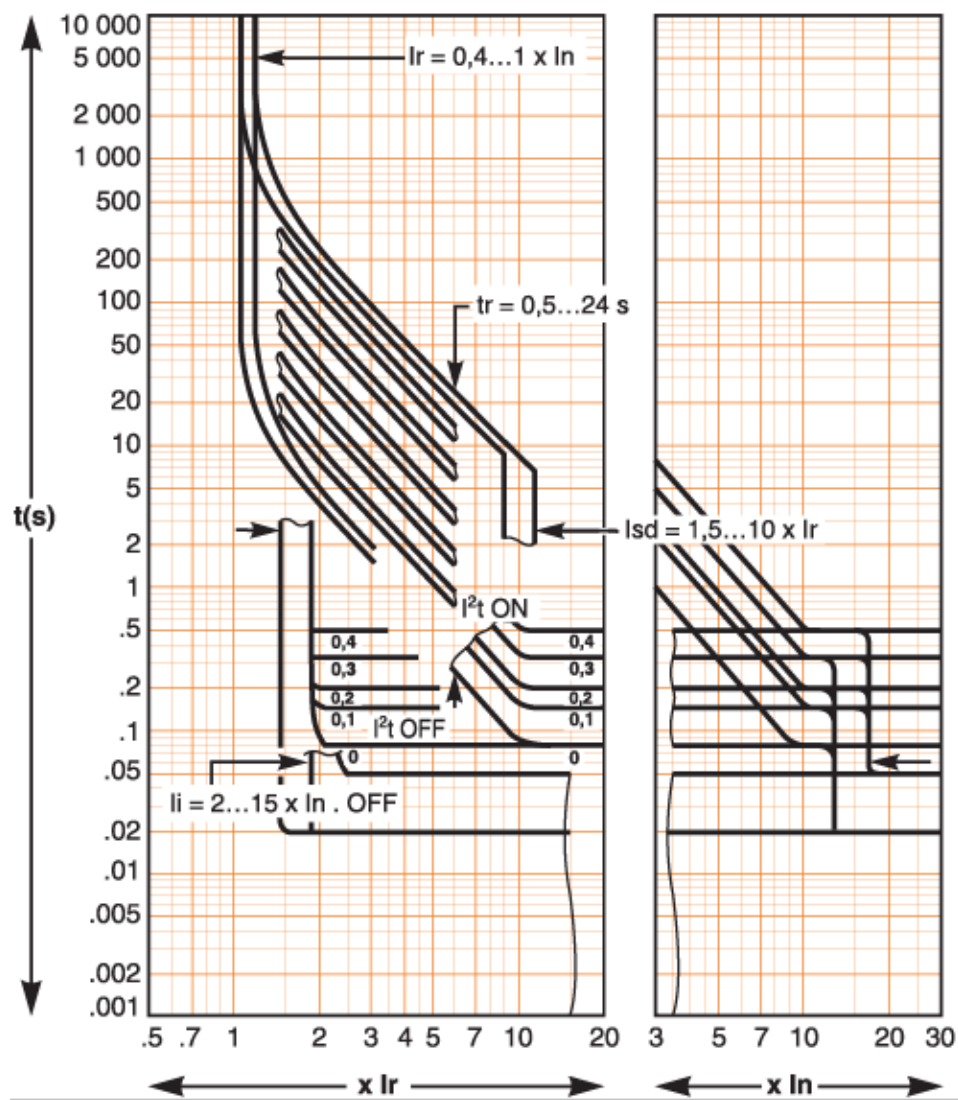
Reach Regulation	<a href="#">REACH Declaration</a>
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>

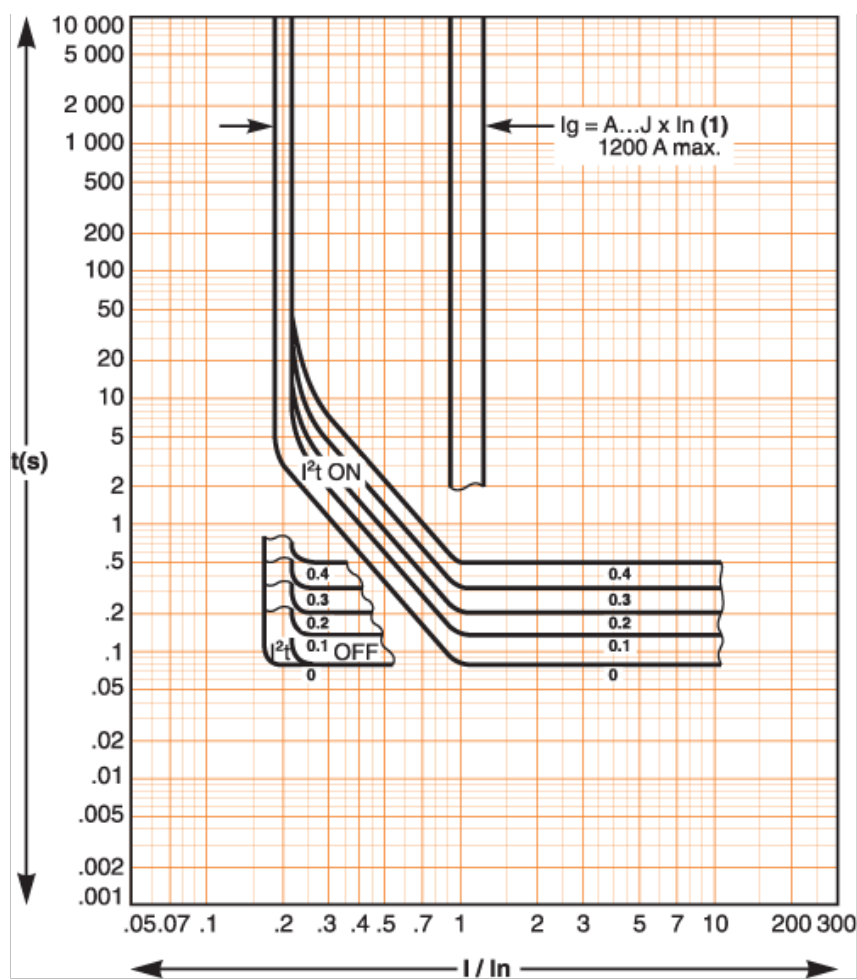
Dimensions Drawings





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