# Product datasheet

Specifications



## Circuit breaker, EasyPact MVS, 3 Poles, 1600A, 50kA, MF, ET2, fixed, manual

MVS16N3MF2L

## 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** | ET2I |
| **Trip Unit Technology** | Electronic |
| **Trip Unit Rating** | 1600 A |

## Complementary

| | |
|---|---|
| **Network Frequency** | 50/60 Hz |
| **Control Type** | Manually operated |
| **Mounting Mode** | Fixed |
| **Mounting Support** | Rail<br>Base plate |
| **Connection Position** | Vertical<br>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

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| | |
|---|---|
| **Mechanical Durability** | 20000 cycles (with maintenance) conforming to IEC 60947-2<br>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<br>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<br>42 kA (1 s) at 690 V AC 50/60 Hz conforming to IEC 60947-2<br>25 kA (3 s) at 440/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| **Trip Unit Protection Functions** | LI |
| **Protection Type** | Instantaneous short-circuit protection<br>Overload protection (long time) |
| **Fault Indication** | Short-circuit<br>Internal fault<br>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 |
| **Thermal Memory** | 20 minutes before and after tripping |
| **Instantaneous Pick-Up Adjustment Type Ii** | Adjustable 9 settings |
| **Instantaneous Pick-Up Adjustment Range** | 1.5...10 x Ir |
| **Zone Selective Interlocking Zsi** | With |
| **Current Sensor Rating Range** | 400/2000 A |
| **Maximum Breaking Time** | 25 ms |
| **Maximum Closing Response Time** | 70 ms |
| **Height** | 352 mm |
| **Width** | 422 mm |
| **Depth** | 297 mm |
| **Net Weight** | 40 kg |

## Environment

| | |
|---|---|
| **Standards** | IEC 60947-2 |
| **Product Certifications** | GOST<br>CCC<br>IEC<br>CCS |
| **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<br>-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 |

## 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-$CO_2$ 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

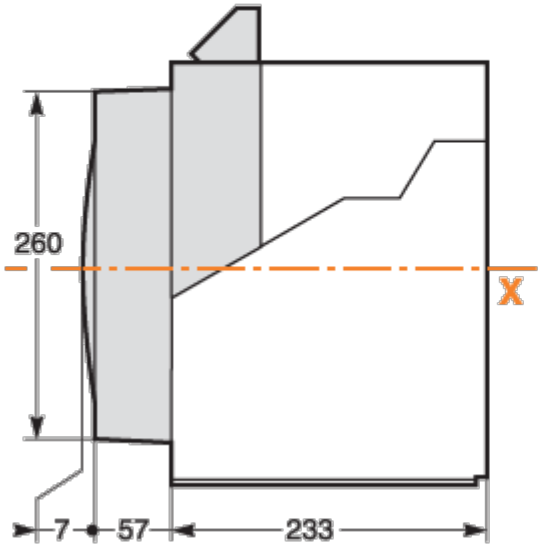
| | |
|---|---|
| Mercury Free | |
| Rohs Exemption Information | Yes |
| Pvc Free | |

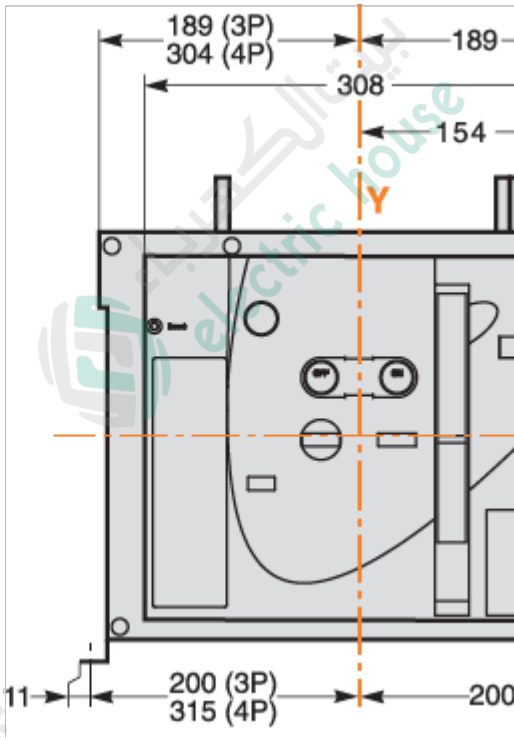
## Certifications & Standards

| | |
|---|---|
| **Reach Regulation** | REACh Declaration |
| **Eu Rohs Directive** | Compliant with Exemptions |
| **China Rohs Regulation** | China RoHS declaration<br>Product out of China RoHS scope. Substance declaration for your information |
| **Environmental Disclosure** | Product Environmental Profile |
| **Circularity Profile** | End of Life Information |

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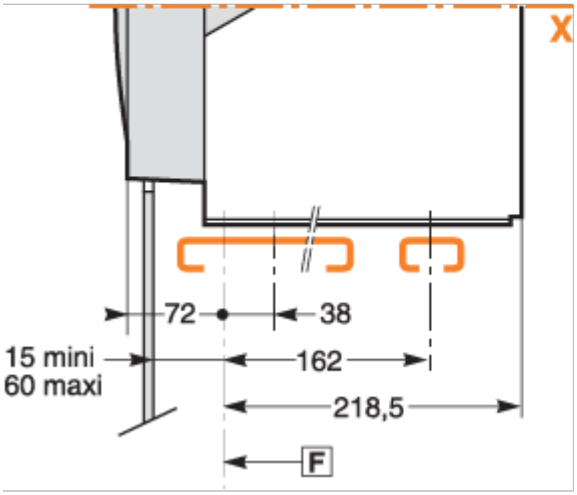
Dimensions Drawings

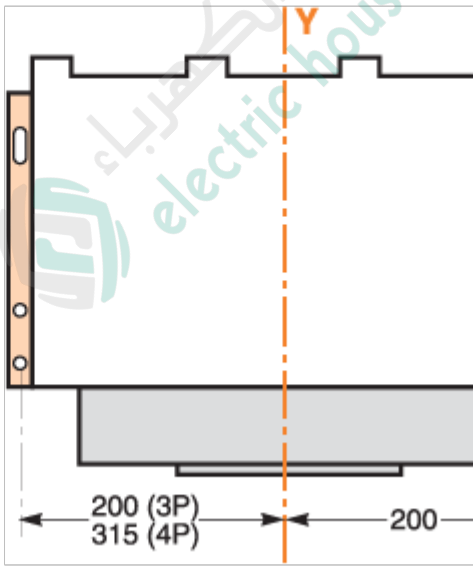


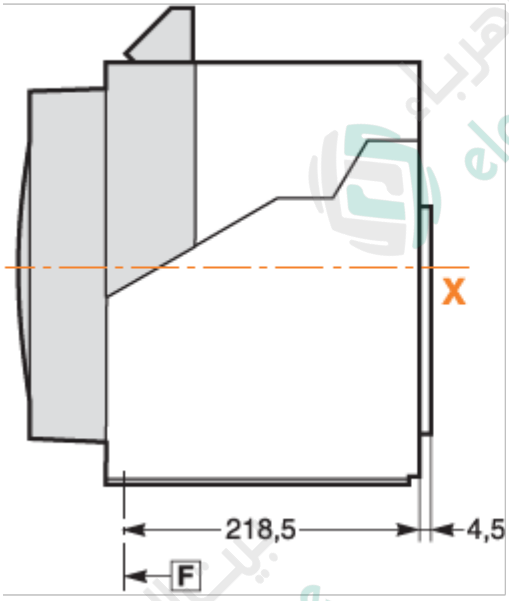



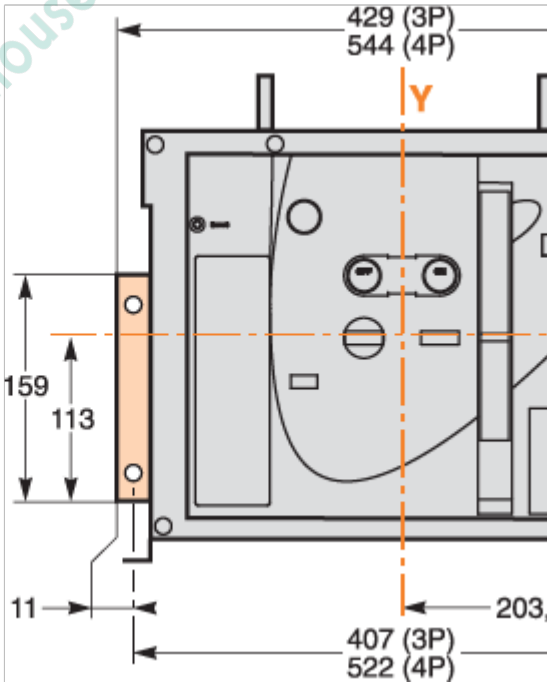

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Assembly



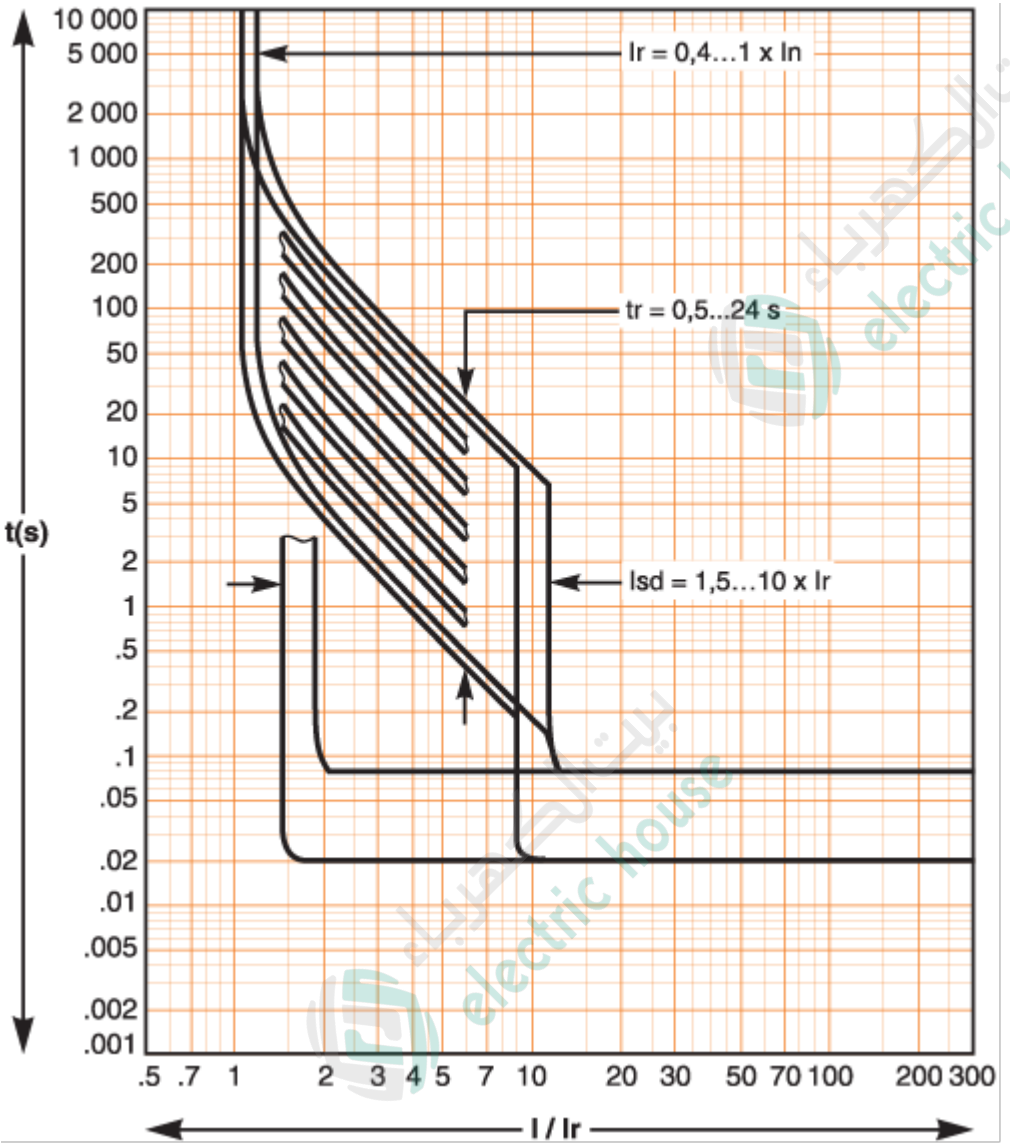




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Performance Curves




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