


NOARK

# M1S45T2L

MCCB - 1100137 - UL489 - M1 frame - 3P2d - 45A rated - lug connections - 500Vdc/ac

Moulded Case Circuit Breaker (MCCB) - UL489 listed - NOARK (Ex9M1 series) - 2-poles in 3-poles case (3P2d) - Rated current 45A - Interrupting capacity 35kA (480Vac) - Lugs on both load and line sides - Thermal-Magnetic (fixed) (FT/FM (Fixed Thermal / Fixed Magnetic)) trip unit - equivalent to 1100137

## Additional information

The technical information provided in the datasheet is subject to change without notice. For confirmation, please contact NOARK's product support team.

## Specifications

| | |
|---|---|
| **Primary brand** | NOARK |
| **Main function** | Moulded Case Circuit Breaker (MCCB) |
| **Product series / family name** | Electrical protection > Circuit breakers > AC Moulded Case Circuit Breakers (MCCBs) |
| **Sub-range name** | Ex9M1 series |
| **Functions** | Moulded Case Circuit Breaker (MCCB) |
| **Poles** | 2-poles in 3-poles case (3P2d) |
| **Rated current** | 45A |
| **Trip current rating** | 45 AT |
| **Frame current rating** | 150 AF |
| **Rated operating voltage (Ue)** | (IEC) 690 V |
| **Rated Voltage (DC)** | 500Vdc |
| **Rated voltage (AC)** | 600Vac |
| **Rated impulse voltage (Uimp)** | 8 kV |
| **Rated insulation voltage (Ui)** | 800 V |
| **Connection type** | Lugs on both load and line sides |
| **Cross-section** | connects with #14AWG...#3/0AWG (000) / 2.5mm2...95mm2 conductors |

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|---|---|
| **Short circuit breaking rating** | 50kA (240Vac)<br>35kA (480Vac)<br>14kA (600Vac)<br>20kA (500Vdc) |
| **Ultimate short circuit current breaking capacity (Icu)** | 50kA (220/240Vac)<br>50kA (380/415Vac)<br>5kA (660/690Vac)<br>20kA (500Vdc) |
| **Trip unit type** | Technology = Thermal-Magnetic (fixed)<br>Series = FT/FM (Fixed Thermal / Fixed Magnetic) |
| **Protection functions** | Fixed thermal protection (Overload)<br>Fixed threshold magnetic protection (Short-circuit) |
| **Protection settings** | Protection against thermal overload -- fixed at 45A<br>Magnetic instantaneous protection against short-circuit -- fixed at 450A |
| **Dimensions** | H164mm x W90mm x D84.5mm<br>H6.46" x W3.54" x D3.33" |
| **Ambient air temperature for operation** | -25˚C...+70 ˚C |
| **Utilisation category** | A |
| **Order code / Manufacturer SKU** | M1S45T2L<br>1100137 |
| **Manufacturer product status** | Commercialized |
| **Equivalent to** | 1100137 |
| **Compliant with standard(s)** | UL489 listed<br>UL489 listed (file number E355392)<br>CSA C22.2 No.5<br>IEC/EN 60947-2<br>CE marking<br>RoHS compliant |
| **Electrical durability** | 6000 hours |
| **Mechanical durability** | 10000 hours |

## Benefits

Ex9M series offers
- High-breaking capacity and a patented arc extinguishing design
- Bearing-type spindle reduces the operating force required to open and close the operating mechanism
- High quality compact modular design
- Fixed and adjustable trip unit settings
- Line and load lugs installed standard
- 5-Year limited warranty

Certifications
- UL 489 listed File Number E355392

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- UL listed to UL489 and Canada CSA standards 22.2 No. 5
- IEC/EN 60947-2
- CE Compliant
- UL489B, File Number E513573

Wide range of accessories
- Alarm switch and auxiliary contact
- Shunt and undervoltage trip
- Rotary type handle
- Flange type handle
- Motor Operator
- Mechanical Interlock

## Documents

E-PLAN - NOARK - M1S45T2L - Part details

NOARK - MCCB MCP MCS Ex9 series-M - Catalog.pdf

Access to all NOARK drawings

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