



MDN140P

MCB 1P 6kA D-40A 1M

Technical properties

Electric current

| | |
|--|---------|
| Rated current | 40 A |
| Rated short-circuit breaking capacity I_{cn} under 230 V AC according to IEC 60898-1 | 6 kA |
| Rated current -15°C | 56,70 A |
| Rated current -10°C | 55,35 A |
| Rated current -5°C | 53,24 A |
| Rated current at 0°C | 51,51 A |
| Rated current 5°C | 49,78 A |
| Rated current 10°C | 48,06 A |
| Rated current 15°C | 46,33 A |
| Rated current at 20°C | 44,60 A |
| Rated current 25°C | 42,87 A |
| Rated current 30°C | 40 A |
| Rated current 35°C | 39,41 A |
| Rated current at 40°C | 37,69 A |
| Rated current at 45°C | 35,96 A |
| Rated current at 50°C | 34,99 A |
| Rated current 55°C | 32,50 A |
| Rated current 60°C | 30,77 A |
| Rated current 65°C | 29,04 A |
| Rated current 70°C | 27,31 A |

Architecture

| | |
|--------------|----|
| Type of pole | 1P |
| Curve | D |

Capacity

| | |
|-------------------|---|
| Number of modules | 1 |
|-------------------|---|

Main electrical attributes

| | |
|--|--------------|
| Rated short-circuit breaking capacity I_{cn} AC according to IEC 60898-1 | 6 kA |
| Nominal tightening torque top terminal | 2,80-2,80 Nm |
| Nominal tightening torque down terminal | 2,80-2,80 Nm |

Voltage

| | |
|---------------------------------|-------------|
| Rated operational voltage U_e | 240 - 415 V |
| Type voltage supply | AC |
| Rated insulation voltage U_i | 500 V |

Frequency

| | |
|-----------|----------|
| Frequency | 50-60 Hz |
|-----------|----------|

Connection

| | |
|--|----------------------|
| Cross-section of input and output with screws, for massive conductors | 1-35 mm ² |
| Cross-section of input and output with screws, for flexible conductors | 1-25 mm ² |
| Cross-section of input with screws, for flexible conductors | 1-25 mm ² |
| Cross-section of input with screws, for massive conductors | 1-35 mm ² |

Installation, mounting

| | |
|---|----------------|
| Nominal tightening torque | 2,80 - 2,80 Nm |
| Type of bottom connection for modular devices | biconnect |
| Type of top connection for modular devices | Screw terminal |
| 360° mounting position possible | Yes |

Safety

| | |
|-------------------------------|------|
| Ingress Protection (IP) class | IP20 |
|-------------------------------|------|

Use conditions

| | |
|--|-----------|
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 2 |
| Air humidity protection | 95%/55°C |
| Operating temperature | -25-70 °C |

Power

| | |
|---------------------------|--------|
| Total power loss under IN | 4,84 W |
|---------------------------|--------|

Connectivity

| | |
|---|------------------|
| Type of connection | Screw terminal |
| Top connection alignment for modular devices | Aligned terminal |
| Down connection alignment for modular devices | Aligned terminal |

Dimensions

| | |
|--------|----------|
| Height | 84,60 mm |
| Width | 17,70 mm |
| Depth | 70 mm |