



MDN116P

MCB 1P 6kA D-16A 1M

Technical properties

Architecture

| | |
|---------------------------|-----------------|
| Neutral position | without neutral |
| Number of protected poles | 1 |
| Number of poles | 1 P |
| Type of pole | 1 P |
| Curve | D |

Functions

| | |
|----------------------------------|----|
| Concurrently switching N-neutral | No |
|----------------------------------|----|

Configuration

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

Connectivity

| | |
|---|------------------|
| Top connection alignment for modular devices | Aligned terminal |
| Bottom connection alignment for modular devices | Aligned terminal |

Main electrical features

| | |
|------------------------------|-------------|
| Rated operational voltage Ue | 240 / 415 V |
| Type of supply voltage | AC |

Voltage

| | |
|------------------------------------|--------|
| Rated insulation voltage | 500 V |
| Max operating voltage | 440 V |
| Rated impulse withstand voltage | 4000 V |
| Minimum threshold voltage (Ue min) | 12 V |

Electric current

| | |
|---|----------------|
| Rated current | 16 A |
| min/maxi threshold value of the AC thermal operation | 1.13 / 1.45 In |
| Magnetic regulating current | 10 / 15 In |
| Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1 | 6 kA |
| Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1 | 6 kA |
| Rated short circuit breaking capacity Icn under 240V AC according IEC 60898-1 | 6 kA |
| Rated short circuit breaking capacity Icn under 415V AC according IEC 60898-1 | 6 kA |

Electric current / temperature

| | |
|----------------------|---------|
| Rating current -25°C | 20.49 A |
| Rating current -20°C | 20.12 A |
| Rating current -15°C | 19.75 A |
| Rating current -10°C | 19.37 A |
| Rating current -5°C | 18.98 A |
| Rating current 0°C | 18.58 A |
| Rating current 5°C | 18.18 A |
| Rating current 10°C | 17.76 A |
| Rating current 25°C | 16.46 A |
| Rating current 30°C | 16 A |
| Rating current 35°C | 15.53 A |
| Rating current 40°C | 15.04 A |
| Rating current 45°C | 14.54 A |
| Rating current 50°C | 14.02 A |
| Rating current 55°C | 13.48 A |
| Rating current 60°C | 12.91 A |
| Rating current 65°C | 12.32 A |
| Rating current 70°C | 11.7 A |

Current correction factors

| | |
|---|------|
| Correction factor of rating current for 2 devices placed side-by-side | 1 |
| Correction factor of rating current for 3 devices placed side-by-side | 0.95 |
| Correction factor of rating current for 4 and 5 devices placed side-by-side | 0.9 |
| Correction factor of rating current for 6 devices placed side-by-side | 0.85 |
| Correction factor of magnetic tripping with 100 Hz | 1.1 |
| Correction factor of magnetic tripping with 200 Hz | 1.2 |
| Correction factor of magnetic tripping with 400 Hz | 1.4 |
| Correction factor of magnetic tripping with 60 Hz | 1 |

Dimensions

| | |
|-----------------------------|---------|
| Depth of installed product | 70 mm |
| Height of installed product | 84.6 mm |
| Width of installed product | 17.7 mm |

Frequency

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

Power

| | |
|---|--------|
| Maximum power loss per pole according to the product standard | 3.5 W |
| Total power loss under IN | 2.43 W |
| Power loss per pole at In | 2.43 W |

Endurance

| | |
|--|-------|
| Electric endurance in number of cycles | 4000 |
| Number of mechanical operations | 20000 |

Installation, mounting

| | |
|---|------------|
| Type of top connection for modular devices | with screw |
| Tightening torque | 2,8Nm |
| Type of top rail clip for modular devices | Plastic |
| Type of bottom rail clip for modular devices | plastic |
| Type of Bottom Connection for modular devices | Blconnect |
| Top removability for modular devices | Yes |
| Bottom removability for modular devices | Yes |
| Suitable for flush-mounting | Yes |

Connection

| | |
|--|------------------------|
| Connection cross-section at output with screw, for flexible conductor | 1 / 25 mm ² |
| Connection cross-section at output with screw, for massive conductor | 1 / 35 mm ² |
| Connection cross-section for rigid conductor, upstream terminals with screws | 1 / 35 mm ² |
| Connection cross-section of the access with screws, with flexible conductor | 1 / 25 mm ² |
| Downstream cage clamp delivery status | opened |
| Upstream cage clamp delivery status | opened |

Equipment

| | |
|---------------------|-----|
| Can be accessorized | Yes |
|---------------------|-----|

Standards

| | |
|---------------|-----------------------------|
| Standard text | EN 60898-1 ; AS/NZS 60898-1 |
|---------------|-----------------------------|

Safety

| | |
|--------------|----|
| Halogen free | No |
|--------------|----|

Use conditions

| | |
|--|-------------|
| Operating temperature | -25...70 °C |
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 2 |
| Altitude | 2000 m |
| Air humidity protection | 95% / 55°C |
| Storage/transport temperature | -25...80 °C |

temperatur

| | |
|----------------------------|-------|
| Temperature of calibration | 30 °C |
|----------------------------|-------|