



MCB 1P 6kA C-63A 1M

MSN163R

Architecture

| | |
|------------------|-------------------------------|
| Neutral position | without neutral |
| Number of poles | 1 P |
| Type of pole | 1 P |
| Fixing mode | DIN rail type O (symmetrical) |
| Curve | C |

Functions

| | |
|----------------------------------|----|
| Concurrently switching N-neutral | no |
|----------------------------------|----|

Compatibility

| | |
|-----------------------------------|-----|
| Compatible with DIN rail mounting | yes |
|-----------------------------------|-----|

Controls and indicators

| | |
|---------------------------------|----|
| With Contact position indicator | no |
| With fault indicator | no |

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 | 415 V |
| Rated impulse withstand voltage | 4000 V |

Electric current

| | |
|--|----------------|
| Rated current | 63 A |
| Rated service breaking capacity Ics AC according IEC 60898-1 | 6 kA |
| min/maxi threshold value of the AC thermal operation | 1,13 / 1,45 In |
| Magnetic regulating current | 5 / 10 In |

Technical Properties

| | |
|--|------|
| Rated short circuit breaking capacity I_{cn} under 240V AC according IEC 60898-1 | 6 kA |
| Rated service breaking capacity I_{cs} under 240V AC according IEC 60898-1 | 6 kA |

Electric current / temperature

| | |
|----------------------|---------|
| Rating current -25°C | 83,89 A |
| Rating current -20°C | 82,07 A |
| Rating current -15°C | 80,24 A |
| Rating current -10°C | 78,67 A |
| Rating current -5°C | 76,58 A |
| Rating current 0°C | 74,75 A |
| Rating current 5°C | 72,93 A |
| Rating current 10°C | 71,1 A |
| Rating current 15°C | 69,27 A |
| Rating current 20°C | 67,44 A |
| Rating current 25°C | 65,61 A |
| Rating current 30°C | 63 A |
| Rating current 35°C | 61,96 A |
| Rating current 40°C | 60,13 A |
| Rating current 45°C | 58,3 A |
| Rating current 50°C | 57 A |
| Rating current 55°C | 54,65 A |
| Rating current 60°C | 52,82 A |
| Rating current 65°C | 50,99 A |
| Rating current 70°C | 49,16 A |

Current correction factors

| | |
|---|------|
| Correction factor of rating current for 2 devices placed 1 side-by-side | |
| Correction factor of rating current for 3 devices placed 0,95 side-by-side | |
| 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 |

Frequency

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

Power

| | |
|---|--------|
| Maximum power loss per pole according to the product standard | 13 W |
| Total power loss under I_N | 7,43 W |
| Power loss per pole at I_N | 7,43 W |

Endurance

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

Dimensions

| | |
|-----------------------------|---------|
| Depth of installed product | 70 mm |
| Height of installed product | 83 mm |
| Width of installed product | 17,5 mm |

Installation, mounting

| | |
|---|------------|
| Type of top connection for modular devices | with screw |
| Tightening torque | 2,8Nm |
| Type of bottom rail clip for modular devices | plastic |
| Type of Bottom Connection for modular devices | Blconnect |
| Top removability for modular devices | no |
| Bottom removability for modular devices | yes |
| 360° product mounting position | 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 |
| Nominal tightening torque bottom terminal | 2,8 Nm |
| Nominal tightening torque top terminal | 2,8 Nm |

Equipment

| | |
|---------------------------------------|-----|
| Can be accessorized | yes |
| Accept terminal cover | no |
| With transparent product label holder | yes |

Standards

| | |
|-------------------------|-----------------------------|
| Standard text | IEC 60898-1, AS/NZS 60898-1 |
| European directive WEEE | not concerned |

Safety

| | |
|---------------------|------|
| Protection index IP | IP20 |
|---------------------|------|

Use conditions

| | |
|--|-----------|
| Operating temperature | -25 70 °C |
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 2 |
| Class of energy limitation I ² t | 3 |
| Altitude | 2000 m |
| Storage/transport temperature | -25 80 °C |

temperatur

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