



HMC380

MCB 3P 15kA C-80A 4.5M

Technical Features

Architecture

| | |
|--------------|----|
| Type of pole | 3P |
| Curve | C |

Voltage

| | |
|---|-------------|
| Rated operational voltage U_e | 415 - 415 V |
| Type voltage supply | AC |
| Rated insulation voltage U_i | 500 V |
| Rated impulse withstand voltage U_{imp} | 6000 V |

Frequency

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

Installation, mounting

| | |
|---|----------------|
| Nominal tightening torque | 3.5 - 5.0 Nm |
| Type of top connection for modular devices | Screw terminal |
| Type of bottom connection for modular devices | Screw terminal |

Electric current

| | |
|--|---------|
| Rated current | 80 A |
| Rated service breaking capacity I_{cs} AC according to IEC 60898-1 | 7.50 kA |
| Rated short-circuit breaking capacity I_{cn} under 230 V AC according to IEC 60898-1 | 15 kA |
| Rated ultimate short-circuit breaking capacity I_{cu} under 230 V AC IEC 60947-2 | 15 kA |
| Rated ultimate short-circuit breaking capacity I_{cu} under 400 V AC IEC 60947-2 | 15 kA |
| Rated current at -20°C | 112 A |
| Rated current -15°C | 109 A |
| Rated current -10°C | 106 A |
| Rated current -5°C | 102 A |
| Rated current at 0°C | 99.20 A |
| Rated current 5°C | 96 A |
| Rated current 10°C | 92.80 A |
| Rated current 15°C | 89.60 A |
| Rated current at 20°C | 86.40 A |
| Rated current 25°C | 83.20 A |
| Rated current 30°C | 80 A |
| Rated current 35°C | 77.60 A |
| Rated current at 40°C | 75.10 A |
| Rated current at 45°C | 72.60 A |
| Rated current at 50°C | 70 A |
| Rated current 55°C | 67.20 A |
| Rated current 60°C | 64.30 A |

Main electrical attributes

| | |
|--|-------|
| Rated short-circuit breaking capacity I_{cn} AC according to IEC 60898-1 | 15 kA |
|--|-------|

Installation, mounting

| | |
|---|----------------|
| Nominal tightening torque down terminal | 3.60 - 3.60 Nm |
| Nominal tightening torque top terminal | 3.60 - 3.60 Nm |

Safety

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

Power

| | |
|------------------------------|---------|
| Total power loss under I_N | 20.32 W |
|------------------------------|---------|

Endurance

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

Connection

| | |
|--|------------------------|
| Cross-section of input and output with screws, for massive conductors | 1 - 70 mm ² |
| Cross-section of input and output with screws, for flexible conductors | 1 - 50 mm ² |
| Cross-section flexible conductor | 50 mm ² |
| Cross-section rigid conductor | 70 mm ² |

Use conditions

| | |
|--|------------------|
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 3 |
| Class of energy limitation I ² t | 3 |
| Air humidity protection | For all climates |
| Operating temperature | -25 - 70 °C |

Capacity

| | |
|-------------------|------|
| Number of modules | 4.50 |
|-------------------|------|

Connectivity

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

Dimensions

| | |
|--------|-------|
| Height | 90 mm |
| Width | 80 mm |
| Depth | 70 mm |

Sustainability

| | |
|-----------------|-----|
| REACH-SVHC free | Yes |
| RoHS conform | Yes |

Illustrations | Drawings

