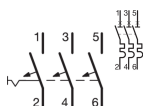




HMC390



## MCB 3P 15kA C-100A 4.5M

### Technical properties

#### Architecture

Number of protected poles	3
Number of poles	3 P
Curve	C

#### Functions

Concurrently switching N-neutral	No
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#### Configuration

Number of modules	4.5
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#### Connectivity

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

#### Main electrical features

Rated short circuit breaking capacity $I_{cn}$ AC according IEC60898-1	15 kA
Rated operational voltage $U_e$	415 V
Type of supply voltage	AC
Frequency	50/60 Hz

#### Voltage

Rated insulation voltage	500 V
Rated impulse withstand voltage	6000 V

#### Electric current

Rated current	100 A
Rated service breaking capacity $I_{cs}$ AC according IEC 60898-1	7.5 kA
min/maxi threshold value of the AC thermal operation	1.13 / 1.45 $I_n$
Magnetic regulating current	5 / 10 $I_n$
Rating current 10°C according to IEC 60947	124 A
Rating current 15°C according to IEC 60947	120 A
Rating current 20°C according to IEC 60947	116 A
Rating current 25°C according to IEC 60947	112 A
Rating current 30°C according to IEC 60947	108 A
Rating current 35°C according to IEC 60947	104 A
Rating current 40°C according to IEC 60947	100 A

Rating current 45°C according to IEC 60947	96.6 A
Rating current 50°C according to IEC 60947	93.1 A
Rating current 55°C according to IEC 60947	89.4 A
Rating current 60°C according to IEC 60947	85.6 A
Rating current 65°C according to IEC 60947	81.6 A
Rating current 70°C according to IEC 60947	77.5 A
Breaking capacity on 1 pole for IT 400V NF 60947-2	4.5 kA
Breaking capacity on 1 pole for IT 415V NF 60947-2	4.5 kA
Rated short circuit breaking capacity I <sub>cn</sub> under 230V AC according IEC60898-1	15 kA
Rated short circuit breaking capacity I <sub>cn</sub> under 400V AC according IEC60898-1	15 kA
Rated service breaking capacity I <sub>cs</sub> AC according IEC 60947-2	50 %
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 230V AC IEC 60947-2	15 kA
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 240V AC IEC 60947-2	15 kA
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 400V AC IEC 60947-2	15 kA
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 415V AC IEC 60947-2	15 kA
<b>Electric current / temperature</b>	
Rating current 0°C	124 A
Rating current 5°C	120 A
Rating current 10°C	116 A
Rating current 15°C	112 A
Rating current 20°C	108 A
Rating current 25°C	104 A
Rating current 30°C	100 A
Rating current 35°C	96.6 A
Rating current 40°C	93.1 A
Rating current 45°C	89.4 A
Rating current 50°C	85.6 A
Rating current 55°C	81.6 A
Rating current 60°C	77.5 A
<b>Current correction factors</b>	
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
<b>Dimensions</b>	
Depth of installed product	70 mm
Height of installed product	90 mm

Width of installed product 80 mm

### Frequency

Frequency 50 to 60 Hz

### Power

Total power loss under IN 21.66 W

Power loss per pole at In 7.98 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 3,5 to 5Nm

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 with screw

Top removability for modular devices Yes

Bottom removability for modular devices Yes

### Connection

Connection cross-section at output with screw, for flexible conductor 1 / 50 mm<sup>2</sup>

Connection cross-section at output with screw, for massive conductor 1 / 70 mm<sup>2</sup>

Connection cross-section for rigid conductor, upstream terminals with screws 1 / 70 mm<sup>2</sup>

Connection cross-section of the access with screws, with flexible conductor 1 / 50 mm<sup>2</sup>

Connection cross-section of input and output with screws, for massive conductors 1 / 70 mm<sup>2</sup>

Connection cross section of access and exit with screws, for flexible conductor 1 / 50 mm<sup>2</sup>

Type of connection terminal with tightening compensation system

### Standards

Standard text EN 60898-1 ; IEC 60947-2

### Safety

Protection index IP IP20

REACH conform Yes

RoHS conform Yes

Halogen free No

### Use conditions

Degree of pollution according to IEC 60664 / IEC 60947-2 3

Class of energy limitation I<sup>2</sup>t 3

Altitude 2000 m

Air humidity protection for all climates

