



### HMC190

# MCB 1P 15kA C-100A 1.5M

Product Datasheet

# Architecture

Number of protected poles	1
Number of poles	1 P
Type of pole	1 P
Curve	С

### **Functions**

Concurrently switching N-neutral	no
ouriounity of thousand	

# Connectivity

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

### Main electrical features

Rated short circuit breaking capacity Icn AC according IEC60898-1	15 kA
Rated operational voltage Ue	240 / 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 Ics AC according IEC 60898-1	7,5 kA
min/maxi threshold value of the AC thermal operation	1,13 / 1,45 ln
Magnetic regulating currrent	5 / 10 ln
Rating current 10°C according to IEC 60947	124 A
Rating current 150°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 Icn under 230V AC according IEC60898-1	15 kA
Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1	15 kA
Rated service breaking capacity Ics AC according IEC 60947-2	50 %
Rated ultimate short-circuit breaking capacity lcu under 230V AC IEC 60947-2	15 kA
Rated ultimate short-circuit breaking capacity lcu under 240V AC IEC 60947-2	15 kA
Rated ultimate short-circuit breaking capacity lcu under 400V AC IEC 60947-2	15 kA
Rated ultimate short-circuit breaking capacity lcu under 415V AC IEC 60947-2	15 kA
Electric current / temperature	
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



1
0,95
0,9
0,85
50 to 60 Hz
6,48 W
6,48 W
4000
20000
70 mm
90 mm
27 mm
with screw
3,5 to 5Nm
Plastic
plastic
with screw
yes
yes
yes



#### Connection Connection cross-section at output with screw, for 1 / 50 mm<sup>2</sup> flexible conductor 1 / 70 mm<sup>2</sup> Connection cross-section at output with screw, for massive conductor Connection cross-sect. flexible conductor 50mm<sup>2</sup> Connection cross-sect. rigid cable 70mm<sup>2</sup> 1 / 70 mm<sup>2</sup> Connection cross-section for rigid conductor, upstream terminals with screws Connection cross-section of the access with 1 / 50 mm<sup>2</sup> screws, with flexible conductor Connection cross-section of input and output with 1 / 70 mm<sup>2</sup> screws, for massive conductors Connection cross section of access and exit with 1 / 50 mm<sup>2</sup> screws, for flexible conductor Type of connection terminal with tightening compensation system Nominal tightening torque bottom terminal 3,6 Nm Nominal tightening torque top terminal 3,6 Nm **Standards** EN 60898-1, IEC 60947-2 Standard text European directive WEEE concerned Product categories described in the W3E directive Category 5 2012/19/EU Safety Protection index IP IP20 **Use conditions** Degree of pollution according to IEC 60664 / IEC 3 60947-2 Altitude 2000 m for all climates Air humidity protection temperatur Temperature of calibration 30 °C