



HMF490

MCB 4P 10kA C-100A 6M

Technical Features

Electric current

Rated current	100 A
Rated short-circuit breaking capacity I_{cn} under 230 V AC according to IEC 60898-1	10 kA
Rated ultimate short-circuit breaking capacity I_{cu} under 400 V AC IEC 60947-2	10 kA
Rated current at 0°C	124 A
Rated current 5°C	120 A
Rated current 10°C	116 A
Rated current 15°C	112 A
Rated current at 20°C	108 A
Rated current 25°C	104 A
Rated current 30°C	100 A
Rated current 35°C	96.60 A
Rated current at 40°C	93.10 A
Rated current at 45°C	89.40 A
Rated current at 50°C	85.60 A
Rated current 55°C	81.60 A
Rated current 60°C	77.50 A

Architecture

Type of pole	4P
--------------	----

Electric current

Rated service breaking capacity I_{cs} AC according to IEC 60947-2	75 %
Rated service breaking capacity I_{cs} AC according to IEC 60898-1	7.50 kA

Architecture

Curve	C
-------	---

Capacity

Number of modules	6
-------------------	---

Main electrical attributes

Rated short-circuit breaking capacity I_{cn} AC according to IEC 60898-1	10 kA
--	-------

Installation, mounting

Nominal tightening torque top terminal	3.60 - 3.60 Nm
Nominal tightening torque down terminal	3.60 - 3.60 Nm
Nominal tightening torque	3.5 - 5.0 Nm

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
-----------	------------

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

Installation, mounting

Type of bottom connection for modular devices	Screw terminal
Type of top connection for modular devices	Screw terminal

Installation, mounting

360° mounting position possible	Yes
---------------------------------	-----

Safety

Ingress Protection (IP) class	IP20
Grid distance	110 mm

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

Power

Total power loss under IN	28.10 W
---------------------------	---------

Connectivity

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

Dimensions

Height	90 mm
Width	106 mm
Depth	70 mm

Sustainability

REACH-SVHC free	Yes
RoHS conform	Yes