

HMX116

MCB 1P 50kA C-16A 1.5M

Product Datasheet

Architecture	
Number of protected poles	1
Number of poles	1 P
Type of pole	1 P
Curve	C
Functions	
Concurrently switching N-neutral	no
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	50 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	16 A
min/maxi threshold value of the AC thermal operation	1,05 / 1,3 lr
Magnetic regulating currrent	5 / 10 In
Rating current -10°C according to IEC 60947	20,83 A
Rating current -15°C according to IEC 60947	21,26 A
Rating current -20°C according to IEC 60947	21,67 A
Rating current -25°C according to IEC 60947	22,08 A
Rating current -5°C according to IEC 60947	20,4 A
Rating current 0°C according to IEC 60947	19,96 A
Rating current 10°C according to IEC 60947	19,05 A
Rating current 150°C according to IEC 60947	18,58 A
Rating current 20°C according to IEC 60947	18,09 A
Rating current 25°C according to IEC 60947	17,59 A
Rating current 30°C according to IEC 60947	17,08 A
Rating current 35°C according to IEC 60947	16,55 A
Rating current 40°C according to IEC 60947	16 A
Rating current 45°C according to IEC 60947	15,43 A
Rating current 5°C according to IEC 60947	19,51 A
Rating current 50°C according to IEC 60947	14,85 A
Rating current 55°C according to IEC 60947	14,23 A
Rating current 60°C according to IEC 60947	13,59 A
Rating current 65°C according to IEC 60947	12,92 A
Rating current 70°C according to IEC 60947	12,21 A
Rated ultimate short-circuit breaking capacity Icu AC IEC 60947-2	50 kA
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 service breaking capacity Ics AC according IEC 60947-2	50 %
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	50 kA
Current correction factors	
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

Frequency

Frequency	50 to 60 Hz
Frequency	50 to 60 Hz



Total power loss under IN	3,46 V
Power loss per pole at In	3,46 V
Endurance	
Electric endurance in number of cycles	4000
Number of mechanical operations	2000
Dimensions	
Depth of installed product	70 mn
Height of installed product	90 mn
Width of installed product	27 mn
Installation, mounting	
Type of top connection for modular devices	with screw
Tightening torque	3,5 to 5Nr
Type of top rail clip for modular devices	Plasti
Type of bottom rail clip for modular devices	plasti
Type of Bottom Connection for modular devices	with screw
Top removability for modular devices	уе
Bottom removability for modular devices	уе
360° product mounting position	уе
Connection cross-section at output with screw, for flexible conductor	1 / 50 mm
Connection cross-section at output with screw, for massive conductor	1 / 70 mm
Connection cross-sect. flexible conductor	50mm
Connection cross-sect. rigid cable	70mm
Connection cross-section for rigid conductor, upstream terminals with screws	1 / 70 mm
Connection cross-section of the access with screws, with flexible conductor	1 / 50 mm
Connection cross-section of input and output with screws, for massive conductors	1 / 70 mm
Connection cross section of access and exit with screws, for flexible conductor	1 / 50 mm
Type of connection	terminal with tightening compensation system
Nominal tightening torque bottom terminal	3,6 Nr
Nominal tightening torque top terminal	3,6 Nr
Standards	
Standard text	IEC 60947-
European directive WEEE	concerne
Product categories described in the W3E directive 2012/19/EU	Category
Safety	
Protection index IP	IP2

Protection index IP IP20

40 °C

Use conditions

Degree of pollution according to IEC 60664 / IEC 60947-2	3
Class of energy limitation I ² t	3
Altitude	2000 m
Air humidity protection	for all climates

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Temperature of calibration
