

HMX250

## MCB 2P 50kA C-50A 3M

Product Datasheet

Architecture	
Number of protected poles	2
Number of poles	2 F
Type of pole	2 F
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	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	50 A
min/maxi threshold value of the AC thermal operation	1,05 / 1,3 lr
Magnetic regulating currrent	5 / 10 Ir
Rating current -10°C according to IEC 60947	67,32 A
Rating current -15°C according to IEC 60947	69,43 A
Rating current -20°C according to IEC 60947	71 A
Rating current -25°C according to IEC 60947	72,57 A
Rating current -5°C according to IEC 60947	66,29 A
Rating current 0°C according to IEC 60947	64,72 A
Rating current 10°C according to IEC 60947	61,58 A
Rating current 150°C according to IEC 60947	60,01 A
Rating current 20°C according to IEC 60947	58,44 A
Rating current 25°C according to IEC 60947	56,87 A
Rating current 30°C according to IEC 60947	58 A
Rating current 35°C according to IEC 60947	53,73 A
Rating current 40°C according to IEC 60947	50 A
Rating current 45°C according to IEC 60947	50,59 A
Rating current 5°C according to IEC 60947	63,15 A
Rating current 50°C according to IEC 60947	49,02 A
Rating current 55°C according to IEC 60947	47,45 /
Rating current 60°C according to IEC 60947	45,88 A
Rating current 65°C according to IEC 60947	44,31 A
Rating current 70°C according to IEC 60947	42,74 <i>A</i>
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 k/
Breaking capacity on 1 pole for IT 415V NF 60947-2	4,5 kA
Rated service breaking capacity Ics AC according EC 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	
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
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Total power loss under IN	7,46 W
Power loss per pole at In	3,77 W
Endurance	
Electric endurance in number of cycles	4000
Number of mechanical operations	20000
Dimensions	
Depth of installed product	70 mm
Height of installed product	90 mm
Width of installed product	53 mr
Installation, mounting	
Type of top connection for modular devices	with screw
Tightening torque	3.5 to 5Nn
Type of top rail clip for modular devices	Plastic
Type of bottom rail clip for modular devices	plasti
Type of Bottom Connection for modular devices	with screv
Top removability for modular devices	ye
Bottom removability for modular devices	ye
360° product mounting position	ye
Connection	
Connection cross-section at output with screw, for	1 / 50 mm
flexible conductor	1, 00 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 Nn
Nominal tightening torque top terminal	3,6 Nn
Standards	
Standard text	IEC 60947-2
European directive WEEE	concerned
Product categories described in the W3E directive	Category

Protection index IP	IP20
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40 °C

## Use conditions

Degree of pollution according to IEC 60664 / IEC 60947-2	3
Class of energy limitation I²t	3
Altitude	2000 m
Air humidity protection	for all climates

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Temperature of calibration	
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