

HMX240

## MCB 2P 50kA C-40A 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	40 A
nin/maxi threshold value of the AC thermal operation	1,05 / 1,3 In
Aagnetic regulating currrent	5 / 10 In
Rating current -10°C according to IEC 60947	54,8 A
Rating current -15°C according to IEC 60947	56,07 A
Rating current -20°C according to IEC 60947	57,31 A
Rating current -25°C according to IEC 60947	58,52 A
Rating current -5°C according to IEC 60947	53,51 A
Rating current 0°C according to IEC 60947	52,18 A
Rating current 10°C according to IEC 60947	49,42 A
Rating current 150°C according to IEC 60947	47,98 A
ating current 20°C according to IEC 60947	46,49 A
ating current 25°C according to IEC 60947	44,96 A
ating current 30°C according to IEC 60947	43,37 A
ating current 35°C according to IEC 60947	41,72 A
ating current 40°C according to IEC 60947	40 A
Rating current 45°C according to IEC 60947	38,21 A
Rating current 5°C according to IEC 60947	50,82 A
Rating current 50°C according to IEC 60947	36,32 A
Rating current 55°C according to IEC 60947	34,34 A
Rating current 60°C according to IEC 60947	32,23 A
Rating current 65°C according to IEC 60947	29,97 A
ating current 70°C according to IEC 60947	27,53 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 EC 60947-2	50 %
Rated ultimate short-circuit breaking capacity Icu Inder 230V AC IEC 60947-2	50 kA
ated ultimate short-circuit breaking capacity Icu Inder 240V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity Icu Inder 400V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity Icu Inder 415V AC IEC 60947-2	50 kA
Current correction factors	
Correction factor of rating current for 2 devices laced side-by-side	1
Correction factor of rating current for 3 devices laced side-by-side	0,95
Correction factor of rating current for 4 and 5 levices placed side-by-side	0,9
Correction factor of rating current for 6 devices laced side-by-side	0,85

## Frequency

60 Hz



Power	
Total power loss under IN	7,28 W
Power loss per pole at In	3,68 W
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	53 mn
Installation, mounting	
Type of top connection for modular devices	with screv
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	ye
Connection cross-section at output with screw, for flexible conductor Connection cross-section at output with screw, for	1 / 50 mm 1 / 70 mm
massive conductor	
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 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

Technical subject to change

40 °C

# 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

### temperatur

Temperature of calibration
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