



HMC399



MCB 3P 15kA C-125A 4.5M

Technical characteristics

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Architecture	
Number of protected poles	3
Number of poles	3 P
Type of pole	3 P
Curve	С
Functions	
Concurrently switching N-neutral	No
Configuration	
Number of modules	4.5
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	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	125 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 In
Magnetic regulating currrent	5 / 10 ln
Rating current 40°C according to IEC 60947	125 A
Rating current 45°C according to IEC 60947	122 A
Rating current 50°C according to IEC 60947	119 A
Rating current 55°C according to IEC 60947	115.7 A
Rating current 60°C according to IEC 60947	112 A
Rating current 65°C according to IEC 60947	109.1 A

Breaking capacity on 1 pole for IT 400V NF 60947-2 Breaking capacity on 1 pole for IT 415V NF 60947-2 Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1 Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1 Rated service breaking capacity Ics AC according IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 Betetric current / temperature Rating current 30°C Rating current 30°C Rating current 45°C Rating current 50°C Rating current 50°C Rating current 50°C Curretton factor of rating current for 2 devices placed side-by-side Correction factor of rating current for 3 devices placed side-by-side Correction factor of rating current for 4 and 5 devices placed side-by-side Correction factor of rating current for 6 devices placed side-by-side Correction factor of rating current for 6 devices placed side-by-side Dimensions Depth of installed product Height of installed product Height of installed product Width of installed product Frequency Power Total power loss under IN Power loss per pole at In	105.6 A
Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1 Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1 Rated service breaking capacity Ics AC according IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 Rating current / temperature Rating current 30°C Rating current 35°C Rating current 45°C Rating current 45°C Rating current 55°C Rating current 60°C Current correction factor of rating current for 2 devices placed side-by-side Correction factor of rating current for 3 devices placed side-by-side Correction factor of rating current for 4 and 5 devices placed side-by-side Correction factor of rating current for 6 devices placed side-by-side Dimensions Depth of installed product Height of installed product Height of installed product Width of installed product Frequency Frequency Power Total power loss under IN	4.5 kA
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Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 Rating current / temperature Rating current 30°C Rating current 40°C Rating current 40°C Rating current 50°C Rating current 50°C Rating current 50°C Rating current for C 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 Correction factor of rating current for 4 and 5 devices placed side-by-side Correction factor of rating current for 6 devices placed side-by-side Dimensions Depth of installed product Height of installed product Width of installed product Width of installed product Frequency Frequency Power Total power loss under IN	15 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 Electric current / temperature Rating current 30°C Rating current 35°C Rating current 40°C Rating current 50°C Rating current 55°C Rating current 60°C Current correction factors Correction factor of rating current for 2 deevices placed side-by-side Correction factor of rating current for 3 devices placed side-by-side Correction factor of rating current for 4 and 5 devices placed side-by-side Correction factor of rating current for 6 devices placed side-by-side Dimensions Depth of installed product Height of installed product Width of installed product Frequency Power Total power loss under IN	50 %
capacity Icu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 Electric current / temperature Rating current 30°C Rating current 35°C Rating current 40°C Rating current 50°C Rating current 55°C Rating current 55°C Rating current 60°C 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 Correction factor of rating current for 6 devices placed side-by-side Dimensions Depth of installed product Height of installed product Width of installed product Frequency Power Total power loss under IN	15 kA
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Rating current 45°C Rating current 50°C Rating current 50°C Rating current 60°C 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 Correction factor of rating current for 4 and 5 devices placed side-by-side Correction factor of rating current for 6 devices placed side-by-side Dimensions Depth of installed product Height of installed product Width of installed product Frequency Frequency Power Total power loss under IN	122 A
Rating current 50°C Rating current 60°C 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 Correction factor of rating current for 4 and 5 devices placed side-by-side Correction factor of rating current for 6 devices placed side-by-side Dimensions Depth of installed product Height of installed product Width of installed product Frequency Frequency Power Total power loss under IN	119 A
Rating current 55°C Rating current 60°C 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 Correction factor of rating current for 4 and 5 devices placed side-by-side Correction factor of rating current for 6 devices placed side-by-side Dimensions Depth of installed product Height of installed product Width of installed product Frequency Power Total power loss under IN	115.7 A
Rating current 60°C 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 Correction factor of rating current for 4 and 5 devices placed side-by-side Correction factor of rating current for 6 devices placed side-by-side Dimensions Depth of installed product Height of installed product Width of installed product Frequency Frequency Power Total power loss under IN	112 A
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Correction factor of rating current for 2 devices placed side-by-side Correction factor of rating current for 3 devices placed side-by-side Correction factor of rating current for 4 and 5 devices placed side-by-side Correction factor of rating current for 6 devices placed side-by-side Dimensions Depth of installed product Height of installed product Width of installed product Frequency Frequency Power Total power loss under IN	105.6 A
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5 devices placed side-by-side Correction factor of rating current for 6 devices placed side-by-side Dimensions Depth of installed product Height of installed product Width of installed product Frequency Frequency Fower Total power loss under IN	0.95
Dimensions Depth of installed product Height of installed product Width of installed product Frequency Frequency Fower Total power loss under IN	0.9
Depth of installed product Height of installed product Width of installed product Frequency Frequency Power Total power loss under IN	0.85
Height of installed product Width of installed product Frequency Frequency Power Total power loss under IN	
Frequency Frequency Power Total power loss under IN	70 mm
Frequency Frequency Power Total power loss under IN	90 mm
Power Total power loss under IN	80 mm
Power Total power loss under IN	
Total power loss under IN	50 to 60 Hz
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Power loss per pole at In	34.93 W
	12 W
Endurance	
Electric endurance in number of cycles	4000
Number of mechanical operations	20000

Installation, mounting	
Type of top connection for modular devices	with screw
Type of top rail clip for modular devices	Plastic
Type of bottom rail clip for modular devices	plastic
Type of Bottom Connection for modular devices	with screw
Top removability for modular devices	Yes
Bottom removability for modular devices	Yes
Connection	
Connection cross-section at output with screw, for flexible conductor	1 / 50 mm²
Connection cross-section at output with screw, for massive conductor	1 / 70 mm²
Connection cross-section for rigid conductor, upstream terminals with screws	1 / 70 mm²
Connection cross-section of the access with screws, with flexible conductor	1 / 50 mm²
Connection cross-section of input and output with screws, for massive conductors	1 / 70 mm²
Connection cross section of access and exit with screws, for flexible conductor	1 / 50 mm²
Standards	
Standard text	EN 60898-1 ; IEC 60947-2
European directive WEEE	concerned
Safety	
Protection index IP	IP20
REACH conform	Yes
RoHS conform	Yes
Halogen free	No
Use conditions	
Degree of pollution according to IEC 60664 / IEC 60947-2	3
Altitude	2000 m
temperatur	
temperatur	

30 °C

Temperature of calibration