Product Data Sheet HMK390





HMK390

MCB 3P 30kA C-100A 4.5M

Product Datasheet

Number of protected poles	3
Number of poles	3 F
Type of pole	3 F
Curve	C
Functions	
Concurrently switching N-neutral	nc
Connectivity	
Top connection alignement for modular devices	Aligned termina
Bottom connection alignement for modular devices	Aligned terminal
Main electrical features	
Rated short circuit breaking capacity Icn AC	30 kA
Rated short circuit breaking capacity Icn AC according IEC60898-1	
Rated short circuit breaking capacity Icn AC according IEC60898-1 Rated operational voltage Ue	415 \
Main electrical features Rated short circuit breaking capacity Icn AC according IEC60898-1 Rated operational voltage Ue Type of supply voltage Frequency	415 V AC
Rated short circuit breaking capacity Icn AC according IEC60898-1 Rated operational voltage Ue Type of supply voltage	415 V AC
Rated short circuit breaking capacity Icn AC according IEC60898-1 Rated operational voltage Ue Type of supply voltage Frequency	30 kA 415 v AC 50/60 Hz 50/0 v

Electric current

Rated current	100 A
min/maxi threshold value of the AC thermal operation	1,13 / 1,45 ln
Magnetic regulating currrent	5 / 10 ln
Rating current 10°C according to IEC 60947	124 A
Rating current 150°C according to IEC 60947	120 A
Rating current 20°C according to IEC 60947	116 A
Rating current 25°C according to IEC 60947	112 A
Rating current 30°C according to IEC 60947	108 A
Rating current 35°C according to IEC 60947	104 A
Rating current 40°C according to IEC 60947	100 A
Rating current 45°C according to IEC 60947	96,6 A
Rating current 50°C according to IEC 60947	93,1 A
Rating current 55°C according to IEC 60947	89,4 A
Rating current 60°C according to IEC 60947	85,6 A
Rating current 65°C according to IEC 60947	81,6 A
Rating current 70°C according to IEC 60947	77,5 A
Rated ultimate short-circuit breaking capacity Icu AC IEC 60947-2	30 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	25 %
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	30 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	30 kA
Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	30 kA
Rated ultimate short-circuit breaking capacity lcu under 415V AC IEC 60947-2	30 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	1
Correction factor of rating current for 4 and 5 devices placed side-by-side	1
Correction factor of rating current for 6 devices placed side-by-side	1
Frequency	
Frequency	50 to 60 Hz
Power	
Total power loss under IN	21,66 W
Power loss per pole at In	7,98 W

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Endurance	
Electric endurance in number of cycles	1500
Number of mechanical operations	20000
Dimensions	
Depth of installed product	70 mm
Height of installed product	90 mm
Width of installed product	80 mm
Installation, mounting	
Type of top connection for modular devices	with screw
Tightening torque	3,5 to 5Nm
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
360° product mounting position	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-sect. flexible conductor	50mm²
Connection cross-sect. rigid cable	70mm²
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
Type of connection	terminal with tightening compensation system
Nominal tightening torque bottom terminal	3,6 Nm
Nominal tightening torque top terminal	3,6 Nm
Standards	
Standard text	IEC 60947-2
European directive WEEE	concerned
Product categories described in the W3E directive 2012/19/EU	Category 5
Safety	

Protection index IP	IP20
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40 °C

Use conditions

egree of pollution according to IEC 60664 / IEC 0947-2	3
ltitude	2000 m
ir humidity protection	for all climates

temperatur

re of calibration
