Product Datasheet
HDA100Z



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Moulded Case Circuit Breaker h3 x160 TM FIX 3P3D 100A 18kA CTC

Technical Features

Electric current	
Rated current IN	100 A
Rated ultimate short-circuit breaking capacity Icu under 400 V AC IEC 60947-2	18 kA
Rated ultimate short-circuit breaking capacity Icu under 240 V AC IEC 60947-2	25 kA
Rated service breaking capacity Ics under 230 V AC according to IEC 60947-2	25 kA
Rated service breaking capacity Ics under 400 V AC according to IEC 60947-2	18 kA
Rated current 10°C according to IEC 60947	120.50 A
Rated current 15°C according to IEC 60947	118.10 A
Rated current 20°C according to IEC 60947	115.70 A
Rated current 25°C according to IEC 60947	113.20 A
Rated current 30°C according to IEC 60947	110.70 A
Rated current at 35°C according to IEC 60947	108.10 A
Rated current at 40°C according to IEC 60947	105.50 A
Rated current 45°C according to IEC 60947	102.70 A
Rated current 50°C according to IEC 60947	100 A
Rated current 55°C according to IEC 60947	97.10 A
Rated current at 60°C according to IEC 60947	94.10 A
Rated current 65°C according to IEC 60947	91.10 A
Rated current 70°C according to IEC 60947	87.90 A
Architecture	
Number of poles	3
Control/operation element	Toggle
Device construction type	Fixed built-in
Neutral position	Without neutral
Tripping	
Response time when opening	10 ms
Frequency	
Frequency	50 - 60 Hz
Voltage	
Rated impulse withstand voltage Uimp	8000 V
Rated insulation voltage Ui	690 V
Rated operational voltage Ue	220 - 415 V
Functions	
Trip unit	TM F/F
Power	
Power dissipation at IN	39 W
Endurance	
Electric endurance in number of cycles	10000
Number of mechanical operations	20000
Safety	
Ingress Protection (IP) class	IP4X
Connection	
Cross-section flexible conductor	4 - 70 mm^2
Cross-section rigid conductor	4 - 95 mm^2
Installation, mounting	
Mounting-/Connection Position	Front
Connectivity	
Type of connection	Screw terminal

Cover, door	
Interlockable	Yes
Settings	
Thermal protection knob setting xIN	1 1
Cable	
Cable material	Copper
Dimensions	
Height	130 mm
Width	75 mm
Depth	68 mm
Downstream busbar: width, height, diameter screw (max.)	130 mm 75 mm
Compatibility	
Compatible with RDC AOB	Yes
Suitable for DIN Rail	Yes
Suitable for distribution board	Yes
Installation, mounting	
Nominal tightening torque down terminal	5 - 5 Nm
Nominal tightening torque top terminal	5 - 5 Nm
Main electrical attributes	
Magnetic protection trip time	0 - 0 ms
Sustainability	
REACh-SVHC free	Yes
RoHS conform	Yes