



HNA050Z

Moulded Case Circuit Breaker h3 x160 TM FIX 3P3D 50A 40kA CTC

Technical characteristics

Architecture

Type of order	Toggle
Neutral position	without neutral
Number of protected poles	3
Number of poles	3 P
Type of pole	3P3D
Fixing mode	DIN rail type O or type J
Type of case	Fixed built-in

Functions

Complete device with protection unit	Yes
Trip Unit	TM F/F
Integrated earth fault protection	No
Concurrently switching N-neutral	No

Controls and indicators

Motor drive integrated	No
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Main electrical features

Rated operational voltage Ue	220 / 415 V
Frequency	50/60

Voltage

Rated insulation voltage	690 V
Rated impulse withstand voltage	8 kV
With under voltage release	No

Electric current

Rated current	50 A
Thermal protection nob setting xIN	1
Rating current 10°C according to IEC 60947	60.4 A
Rating current 150°C according to IEC 60947	59.2 A
Rating current 20°C according to IEC 60947	58 A
Rating current 25°C according to IEC 60947	56.7 A
Rating current 30°C according to IEC 60947	55.4 A
Rating current 35°C according to IEC 60947	54.1 A
Rating current 40°C according to IEC 60947	52.8 A
Rating current 45°C according to IEC 60947	51.4 A
Rating current 50°C according to IEC 60947	50 A

Rating current 55°C according to IEC 60947	48.5 A
Rating current 60°C according to IEC 60947	47 A
Rating current 65°C according to IEC 60947	45.4 A
Rating current 70°C according to IEC 60947	43.8 A
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	85 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	85 kA
Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	40 kA
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	40 kA
Range of the thermal adjustment	50 A
Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2	40 kA
Dimensions	
Depth of installed product	68 mm
Height of installed product	130 mm
Width of installed product	75 mm
Frequency	
Frequency	50 to 60 Hz
Power	
Total power loss under IN	17.3 W
Power loss per pole at In	5.8 W
Endurance	
Electric endurance in number of cycles	1000
Number of mechanical operations	4000
Installation, mounting	
DIN rail mounting with optional adaptor	No
Connection	
Connection	Front connection
Type of connection	with screw
Settings	
Range of the magnetic adjustment	600 A
Equipment	
Number of auxiliary contacts as normally closed contact	0
Number of auxiliary contacts as normally open contact	0
Number of auxiliary contacts as change-over contact	0
Motor drive optional	No
Can be accessorized	Yes
Standards	

Standard text	IEC 60947-2
European directive WEEE	concerned
Safety	
Protection index IP	IP4X
Use conditions	
Degree of pollution according to IEC 60664 / IEC 60947-2	3
Altitude	2000 m
temperatur	
Temperature of calibration	50 °C