



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 Hz

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 15°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
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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
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Connection

Connection	Front connection
Type of connection	with screw

Settings

Range of the magnetic adjustment	600 A
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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
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

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Temperature of calibration	50 °C
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