



HHA160Z

Moulded Case Circuit Breaker h3 x160 TM FIX 3P3D 160A 25kA 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
Type of case	FIX

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	160 A
Thermal protection nob setting xIN	1
Rating current 10°C according to IEC 60947	187.2 A
Rating current 150°C according to IEC 60947	184 A
Rating current 20°C according to IEC 60947	180.7 A
Rating current 25°C according to IEC 60947	177.4 A
Rating current 30°C according to IEC 60947	174.1 A
Rating current 35°C according to IEC 60947	170.7 A
Rating current 40°C according to IEC 60947	167.2 A
Rating current 45°C according to IEC 60947	163.6 A
Rating current 50°C according to IEC 60947	160 A
Rating current 55°C according to IEC 60947	156.2 A

Rating current 60°C according to IEC 60947	152.4 A
Rating current 65°C according to IEC 60947	148.5 A
Rating current 70°C according to IEC 60947	144.4 A
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	35 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	35 kA
Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	25 kA
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	25 kA
Range of the thermal adjustment	160 A
Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2	25 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	43.8 W
Power loss per pole at In	14.6 W
Endurance	
Electric endurance in number of cycles	1000
Number of mechanical operations	4000
Installation, mounting	
DIN rail mounting with optional adaptator	Yes
Connection	
Connection	Front connection
Type of connection	with screw
Settings	
Range of the magnetic adjustment	1600 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	Yes
Can be accessorized	Yes
Standards	
Standard text	IEC 60947-2

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