



HDA078Z

Moulded Case Circuit Breaker h3 x160 TM FIX 1P1D 80A 18kA CTC

Technical characteristics

Architecture

Type of order	Toggle
Neutral position	without neutral
Number of protected poles	1
Number of poles	1 P
Type of pole	1P1D
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 / 240 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	80 A
Thermal protection nob setting xIN	1
Rating current 10°C according to IEC 60947	106.9 A
Rating current 15°C according to IEC 60947	103.9 A
Rating current 20°C according to IEC 60947	100.9 A
Rating current 25°C according to IEC 60947	97.7 A
Rating current 30°C according to IEC 60947	94.4 A
Rating current 35°C according to IEC 60947	91 A
Rating current 40°C according to IEC 60947	87.5 A
Rating current 45°C according to IEC 60947	83.8 A
Rating current 50°C according to IEC 60947	80 A
Rating current 55°C according to IEC 60947	75.9 A

Rating current 60°C according to IEC 60947	71.6 A
Rating current 65°C according to IEC 60947	67.1 A
Rating current 70°C according to IEC 60947	62.2 A
Breaking capacity on 1 pole for IT 230V NF 60947-2	18 kA
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	18 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	18 kA
Range of the thermal adjustment	80 A
Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2	18 kA
Dimensions	
Depth of installed product	68 mm
Height of installed product	130 mm
Width of installed product	25 mm
Frequency	
Frequency	50 to 60 Hz
Power	
Total power loss under IN	4.8 W
Power loss per pole at In	4.8 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	1000 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
Safety	

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
temperatur	
Temperature of calibration	50 °C