



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
<b>Dimensions</b>	
Depth of installed product	68 mm
Height of installed product	130 mm
Width of installed product	25 mm
<b>Frequency</b>	
Frequency	50 to 60 Hz
<b>Power</b>	
Total power loss under IN	4.8 W
Power loss per pole at In	4.8 W
<b>Endurance</b>	
Electric endurance in number of cycles	1000
Number of mechanical operations	4000
<b>Installation, mounting</b>	
DIN rail mounting with optional adaptor	No
<b>Connection</b>	
Connection	Front connection
Type of connection	with screw
<b>Settings</b>	
Range of the magnetic adjustment	1000 A
<b>Equipment</b>	
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
<b>Standards</b>	
Standard text	IEC 60947-2
<b>Safety</b>	

REACH conform	Yes
RoHS conform	Yes
Halogen free	No
<b>Use conditions</b>	
Degree of pollution according to IEC 60664 / IEC 60947-2	3
Altitude	2000 m
<b>temperatur</b>	
Temperature of calibration	50 °C