



HNA020Z

### Moulded Case Circuit Breaker h3 x160 TM FIX 3P3D 20A 40kA CTC

#### Technical characteristics

##### Architecture

Neutral position	without neutral
Number of protected poles	3
Number of poles	3 P
Type of pole	3P3D

##### Functions

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	20 A
Thermal protection nob setting xIN	1
Rating current 10°C according to IEC 60947	24.9 A
Rating current 15°C according to IEC 60947	24.4 A
Rating current 20°C according to IEC 60947	23.8 A
Rating current 25°C according to IEC 60947	23.2 A
Rating current 30°C according to IEC 60947	22.6 A
Rating current 35°C according to IEC 60947	22 A
Rating current 40°C according to IEC 60947	21.3 A
Rating current 45°C according to IEC 60947	20.6 A
Rating current 50°C according to IEC 60947	20 A
Rating current 55°C according to IEC 60947	19.2 A
Rating current 60°C according to IEC 60947	18.5 A
Rating current 65°C according to IEC 60947	17.7 A
Rating current 70°C according to IEC 60947	16.9 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	20 A
Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2	40 kA
<b>Dimensions</b>	
Depth of installed product	68 mm
Height of installed product	130 mm
Width of installed product	75 mm
<b>Frequency</b>	
Frequency	50 to 60 Hz
<b>Power</b>	
Total power loss under IN	8.7 W
Power loss per pole at In	2.9 W
<b>Endurance</b>	
Electric endurance in number of cycles	1000
Number of mechanical operations	4000
<b>Connection</b>	
Type of connection	with screw
<b>Settings</b>	
Range of the magnetic adjustment	600 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
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

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Temperature of calibration

50 °C