



HNA081Z

**Moulded Case Circuit Breaker h3 x160 TM FIX 4P4D 80A 40kA CTC**

**Technical characteristics**

**Architecture**

Number of protected poles	4
Number of poles	4 P
Type of pole	4P4D

**Functions**

Trip Unit	TM F/F
Integrated earth fault protection	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	80 A
Thermal protection nob setting xIN	1
Rating current 10°C according to IEC 60947	101.9 A
Rating current 15°C according to IEC 60947	99.4 A
Rating current 20°C according to IEC 60947	96.9 A
Rating current 25°C according to IEC 60947	94.3 A
Rating current 30°C according to IEC 60947	91.6 A
Rating current 35°C according to IEC 60947	88.8 A
Rating current 40°C according to IEC 60947	86 A
Rating current 45°C according to IEC 60947	83 A
Rating current 50°C according to IEC 60947	80 A
Rating current 55°C according to IEC 60947	76.8 A
Rating current 60°C according to IEC 60947	73.4 A
Rating current 65°C according to IEC 60947	70 A
Rating current 70°C according to IEC 60947	66.3 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	80 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	100 mm
<b>Frequency</b>	
Frequency	50 to 60 Hz
<b>Power</b>	
Total power loss under IN	18.9 W
Power loss per pole at In	6.3 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	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
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

