



HNA160U

## Moulded Case Circuit Breaker h3 x160 TM ADJ 3P3D 160A 40kA CTC

## **Technical properties**

Arc	hi	tec	tu	re
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Neutral position	without neutral
Number of protected poles	3
Number of poles	3 P
Type of pole	3P3D
Functions	
Trip Unit	TM A/F
Integrated earth fault protection	No
Concurrently switching N-neutral	No
Controls and indicators	
Motor drive integrated	No
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	160 A
Thermal protection nob setting xIN	0.63 / 0.8 / 1
Rating current 10°C according to IEC 60947	188.5 A
Rating current 15°C according to IEC 60947	185.2 A
Rating current 20°C according to IEC 60947	181.8 A
Rating current 25°C according to IEC 60947	178.3 A
Rating current 30°C according to IEC 60947	174.8 A
Rating current 35°C according to IEC 60947	171.2 A
Rating current 40°C according to IEC 60947	167.5 A
Rating current 45°C according to IEC 60947	163.8 A
Rating current 50°C according to IEC 60947	160 A
Rating current 55°C according to IEC 60947	156 A
Rating current 60°C according to IEC 60947	152 A
Rating current 65°C according to IEC 60947	147.8 A
Rating current 70°C according to IEC 60947	143.6 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 k <i>A</i>
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	100 / 125 / 160 /
Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2	40 k/
Dimensions	
Depth of installed product	68 mn
Height of installed product	130 mn
Width of installed product	75 mn
Frequency	
Frequency	50 to 60 H:
Power	
Power loss per pole at 0.63*In	5.7 V
Power loss per pole at 0.8*In	8.9 V
Total power loss at 0.63*In	17.1 V
Total power loss at 0.8*In	26.7 V
Total power loss under IN	43.8 V
Power loss per pole at In	14.6 W
Endurance	
Electric endurance in number of cycles	1000
Number of mechanical operations	4000
Settings	
Range of the magnetic adjustment	1600 A
Equipment	
Number of auxiliary contacts as normally closed contact	(
Number of auxiliary contacts as normally open contact	(
Number of auxiliary contacts as change- over contact	(
Can be accessorized	Ye
Standards	
Standard text	IEC 60947-
European directive WEEE	concerned
Safety	
REACH conform	Ye
RoHS conform	Ye

Use conditions	
Degree of pollution according to IEC 60664 / IEC 60947-2	3
Altitude	2000 m
temperatur	
Temperature of calibration	50 °C