



HNA160U

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

Technical characteristics

Type of order	Toggle
Neutral position	without neutral
Number of protected poles	3
Number of poles	3 P
Type of pole	3P3D
Type of case	Fixed built-in
Functions	
Complete device with protection unit	Yes
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
	167 5 4
Rating current 40°C according to IEC 60947	107.5 A
	167.5 A 163.8 A

Rating current 60°C according to IEC 60947	152 /
Rating current 65°C according to IEC 60947	147.8
Rating current 70°C according to IEC 60947	143.6
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	85 k
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	85 k
Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	40 k
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	40 k
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 mr
Height of installed product	130 mn
Width of installed product	75 mr
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 \
Total power loss at 0.8*In	26.7 V
Total power loss under IN	43.8 \
Power loss per pole at In	14.6 V
Endurance	
Electric endurance in number of cycles	100
Number of mechanical operations	2000
Installation, mounting	
DIN rail mounting with optional adaptator	Ν
Connection	
Connection	Front connectio
Settings	
Range of the magnetic adjustment	1600
Equipment	
Number of auxiliary contacts as normally closed contact	
Number of auxiliary contacts as normally	
open contact	
open contact Number of auxiliary contacts as change-	(

Standards

Standard text	IEC 60947-2
European directive WEEE	concerned
Safety	
REACH conform	Yes
RoHS conform	Yes
Halogen free	No
Use conditions	
Degree of pollution according to IEC 60664 / IEC 60947-2	З
Altitude	2000 m
temperatur	