



HDA020L

Moulded Case Circuit Breaker X160 3P 18kA 20A

Technical properties

Type of poles 3 F Type of pole 3P3C Functions 2 Complete device with protection unit Yes Trip Unit TM F// Integrated earth fault protection No Configuration Number of modules Number of modules 4.5 Main electrical features 4.5 Rated operational voltage Ue 220 / 415 \ Frequency 50/60 Hz Voltage 8 Rated insulation voltage 690 \ Rated insulation voltage 690 \ Rated current 20 / Rated current 20 / Rated current 20 / Rated current 20 / Rated duitimate short-circuit breaking capacity loc MAF 3 Gog47-2 15 k/ Breaking capacity on 1 pole for IT 230V NF 9 k/ Gog47-2 100 % Rated ultimate short-circuit breaking capacity loc AC IEC 60947-2 25 k/ Rated ultimate short-circuit breaking capacity loc Co Gog47-2 25 k/ Rated ultimate short-circuit breaking capacity loc Co Gog47-2 25 k/ Rated ultimate short-circuit breaking capacity loc Under 320 VA C IEC 60947-2 25 k/ Rated ultimate short-circuit breaking capacity loc Under 320 VA C IEC 60947-2 25 k/	Type of order	Toggle
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		15 kA

Current correction factors

Correction factor of rating current for 2 devices placed side-by-side	1
Correction factor of rating current for 3 devices placed side-by-side	1
Correction factor of rating current for 4 and 5 devices placed side-by-side	1
Correction factor of rating current for 6 devices placed side-by-side	1
Power	
Total power loss under IN	8.7 W
Power loss per pole at In	2.9 W
Tripping	
Tripmode	TM
Thermal protection trip time	0 ms
Time of response when opening	10 ms
Electrical specifications	
Magnetic trip delay time	0 ms
Endurance	
Electric endurance in number of cycles	1000
Number of mechanical operations	4000
Installation, mounting	
DIN rail mounting with optional adaptator	No
Connection	
Connection cross-sect. flexible conductor	
	4 / 70mm²
Connection cross-sect. rigid cable	
Connection cross-sect. rigid cable Connection	4 / 70mm² 4 / 95mm² Front connection
Connection	4 / 95mm² Front connection
Connection Type of connection	4 / 95mm² Front connection
Connection Type of connection Settings	4 / 95mm² Front connection with screw
Connection Type of connection Settings Range of the magnetic adjustment	4 / 95mm ² Front connection with screw 600 A
Connection Type of connection Settings Range of the magnetic adjustment Setting type In or Ith	4 / 95mm ² Front connection with screw 600 A
Connection Type of connection Settings Range of the magnetic adjustment Setting type In or Ith Equipment Number of auxiliary contacts as normally	4 / 95mm ² Front connection with screw 600 A IN
Connection Type of connection Settings Range of the magnetic adjustment Setting type In or Ith Equipment Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally	4 / 95mm ² Front connection with screw 600 A IN
Connection Type of connection Settings Range of the magnetic adjustment Setting type In or Ith Equipment Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-	4 / 95mm ² Front connection with screw 600 A IN 0
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Connection Type of connection Settings Range of the magnetic adjustment Setting type In or Ith 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 Motor drive optional Use cases	4 / 95mm² Front connection with screw 600 A IN 0 0 0 0 0 0
Type of connection Settings Range of the magnetic adjustment Setting type In or Ith 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 Motor drive optional	4 / 95mm²
Connection Type of connection Settings Range of the magnetic adjustment Setting type In or Ith 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 Motor drive optional Use cases Category of use	4 / 95mm² Front connection with screw 600 A IN 0 0 0 0 0 0

Use conditions

Operating temperature	-2570 °C
Altitude	2000 m
Air humidity protection	for all climates
Storage/transport temperature	-3570 °C