



HNA050Z

Moulded Case Circuit Breaker x160 3P 40kA 50A

Technical properties

Type of pole 3P31 Functions Complete device with protection unit Ye Trip Unit TM F/ Integrated earth fault protection N Configuration Number of modules 4. Main electrical features Rated operational voltage Ue 220 / 415 Frequency 50/60 H Voltage Rated insulation voltage Ue 220 / 415 Frequency 50/60 H Voltage Rated insulation voltage Ue 88 k With under voltage release N Electric current Rated current 50 / Rated ultimate short-circuit breaking capacity cu nder 200 VAC IEC 60947-2 So 9 ka Rated service breaking capacity Ics AC according IEC 60947-2 So 9 Rated ultimate short-circuit breaking capacity lcu under 2400 VAC IEC 60947-2 So 9 Rated ultimate short-circuit breaking capacity lcu under 2400 VAC IEC 60947-2 So 9 Rated ultimate short-circuit breaking capacity lcu under 2400 VAC IEC 60947-2 So 9 Rated ultimate short-circuit breaking capacity lcu under 2400 VAC IEC 60947-2 So 9 Rated ultimate short-circuit breaking capacity lcu under 2400 VAC IEC 60947-2 So 9 Rated ultimate short-circuit breaking capacity lcu under 2400 VAC IEC 60947-2 So 9 Rated ultimate short-circuit breaking capacity lcu under 2400 VAC IEC 60947-2 So 9 Rated ultimate short-circuit breaking capacity lcu under 2400 VAC IEC 60947-2 So 9 Rated ultimate short-circuit breaking capacity lcu under 2400 VAC IEC 60947-2 So 9 Rated ultimate short-circuit breaking capacity lcu under 2400 VAC IEC 60947-2 So 9 Rated ultimate short-circuit breaking capacity lcu under 2400 VAC IEC 60947-2 So 9 Rated ultimate short-circuit breaking capacity lcu under 2400 VAC IEC 60947-2 So 9 Rated ultimate short-circuit breaking capacity lcu under 2400 VAC IEC 60947-2 So 9 Rated ultimate short-circuit breaking capacity lcu under 2400 VAC IEC 60947-2 So 9 Rated ultimate short-circuit breaking capacity lcu under 2400 VAC IEC 60947-2 So 9 Rated ultimate short-circuit breaking capacity lcu under 2400 VAC IEC 60947-2 So 9 Rated ultimate short-circuit breaking capacity lcu under 2400 VAC IEC 60947-2 So 9 Rated ultimate short-circuit breaking capacity lcu under 2400 VAC IEC 60947-2 S	Type of order	Toggle
Functions Complete device with protection unit Ye Trip Unit TM F/ Integrated earth fault protection N Configuration N Number of modules 4. Main electrical features 220 / 415 ' Rated operational voltage Ue 220 / 415 ' Frequency 50/60 H Voltage 8 Rated insulation voltage Ue 8 kd With under voltage release N Electric current 8 Rated urrent 50 / Rated urrent 50 / Electric current 50 / Rated urrent for H T 230V NF 51 k Breaking capacity on 1 pole for IT 230V NF 50 / S0947-2 51 k Breaking capacity on 1 pole for IT 400V NF 9 k Rated service breaking capacity Ics AC 250 / according IEC 60947-2 65 k Rated ultimate short-circuit breaking 26 k/	Number of poles	3 P
Complete device with protection unit Ye Trip Unit TM F/ Integrated earth fault protection N Configuration N Number of modules 4.1 Main electrical features 220 / 415 ° Rated operational voltage Ue 220 / 415 ° Frequency 50/60 H Voltage 8 Rated insulation voltage 690 ° Rated insulation voltage release N Electric current 50 ° Rated current 50 ° Rated current 50 ° Rated current 50 ° Breaking capacity on 1 pole for IT 230V NF 51 k Breaking capacity on 1 pole for IT 230V NF 50 ° Sted duttimate short-circuit breaking capacity ICS AC 50 ° according IEC 60947-2 58 k Rated service breaking capacity ICS AC 50 ° according IEC 60947-2 85 k Rated ultimate short-circuit breaking capacity ICS 60947-2 50 ° Rated ultimate short-circuit breaking capacity ICS AC 50 ° Capacity Icu under 2400 VAC IEC 60947-2 85 k Rated ultimate short-circuit breaking	Type of pole	3P3D
Trip Unit TM F/ Integrated earth fault protection N Configuration Number of modules 4. Main electrical features Rated operational voltage Ue 220 / 415 v Frequency 50/60 H Voltage Rated insulation voltage 0 Rated insulation voltage 8 k0 With under voltage release 8 k0 With under voltage release 8 k0 Electric current 50 / Rated ultimate short-circuit breaking capacity Icu under 690 VA C IEC 60947-2 6 k0 Thermal protection nob setting x1N Breaking capacity on 1 pole for IT 230V NF 60947-2 9 k0 Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 85 k0 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 85 k0 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 85 k0 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 85 k0 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 85 k0 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 85 k0 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 85 k0 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 85 k0 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 85 k0 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 85 k0 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 85 k0 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 85 k0 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 40 k0 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 40 k0 Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 40 k0 Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 40 k0 Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 40 k0	Functions	
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Configuration Number of modules 4. Main electrical features 220 / 415 4 Rated operational voltage Ue 220 / 415 4 Frequency 50/60 H Voltage 8 Rated insulation voltage 690 4 Rated insulation voltage 8 k4 With under voltage release N Electric current 50 / Rated dultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2 6 k2 Thermal protection nob setting xIN 51 k Breaking capacity on 1 pole for IT 230V NF 60947-2 50 9 Rated service breaking capacity Ics AC according IEC 60947-2 50 9 Rated service breaking capacity Ics AC according IEC 60947-2 50 9 Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 50 9 Rated ultimate short-circuit breaking capacity Ics AC according IEC 60947-2 50 9 Rated ultimate short-circuit breaking capacity Icu under 240V 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 240V AC IEC 60947-2 85 k Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2<	Trip Unit	TM F/F
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capacity Icu under 415V AC IEC 60947-2 40 k/ Rated ultimate short-circuit breaking	-	40 kA
		40 kA
		25 kA

Current correction factors

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	17.3 W
Power loss per pole at In	5.8 W
Tripping	
Tripmode	TM
Thermal protection trip time	0 m:
Time of response when opening	10 ms
Electrical specifications	
Magnetic trip delay time	0 m:
Endurance	
Electric endurance in number of cycles	1000
Number of mechanical operations	4000
Installation, mounting	
DIN rail mounting with optional adaptator	Yes
Connection	
Connection cross-sect. flexible conductor	4 / 70mm ²
Connection cross-sect. rigid cable	4 / 0Emm
Connection	4 / 95mm ²
Type of connection	Front connection
Settings	Front connection
	Front connection with screv
Range of the magnetic adjustment	Front connection with screw 600 A
Range of the magnetic adjustment Setting type In or Ith	Front connection with screw 600 /
Range of the magnetic adjustment Setting type In or Ith Equipment Number of auxiliary contacts as normally	Front connection with screw 600 /
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	Front connection with screw 600 / IN
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-	Front connection with screw 600 / IN
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	Front connection with screw 600 / IN
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	Front connection with screw 600 / IN
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	Front connection with screv 600 / 600 / 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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	Front connection with screw 600 / 10
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	Front connection

Use conditions

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