



HNA040U

Moulded Case Circuit Breaker X160 3P 40kA 40A

Technical properties

Type of pole 3P Functions Complete device with protection unit 1N Trip Unit 1N Trip Unit 1N Trip Unit 1N Configuration Configuration Number of modules Main electrical features Rated operational voltage Ue 220 / 411 Frequency 50/60 Voltage Rated insulation voltage Ue 220 / 411 Frequency 50/60 Voltage Rated insulation voltage Ue 690 Rated insulation voltage 690 Rated insulation voltage 70 Rated current Rated current Rated current Rated current 44 Rated ultimate short-circuit breaking capacity (ou under 500 VAC IEC 60947-2 S1 Breaking capacity on 1 pole for IT 230V NF 60947-2 S1 Breaking capacity on 1 pole for IT 230V NF 60947-2 Rated service breaking capacity Ics AC according IEC 60947-2 Rated ultimate short-circuit breaking capacity (ou under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity (ou under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity (ou under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity (ou under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity (ou under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity (ou under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity (ou under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity (ou under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity (ou under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity (ou under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity (ou under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity (ou under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity (ou under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity (ou under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity (ou under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity (ou under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity (ou under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capa	Type of order	Toggle
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capacity Icu under 415V AC IEC 60947-2 40 	-	40 kA
		40 kA
		25 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	11 W
Power loss per pole at In	3.7 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	Yes
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
	4 / 95mm ² Front connectior
Connection Type of connection	4 / 95mm ² Front connectior
Connection Type of connection Settings	4 / 95mm ² Front connection with screw
Connection	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
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
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	4 / 95mm ² Front connection with screw 600 A IN
Connection Type of connection Settings Range of the magnetic adjustment	4 / 95mm ²
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	4 / 95mm ² Front connection with screw 600 A 1N 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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 / 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- over contact Motor drive optional Use cases Category of use	4 / 95mr Front connection with screen 600

Use conditions

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