



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
Functions         Complete device with protection unit       TM         Trip Unit       TM         Integrated earth fault protection       Configuration         Number of modules       Configuration         Number of modules       Configuration         Main electrical features       Rated operational voltage Ue         Rated operational voltage Ue       220 / 41:         Frequency       50/60         Voltage       69/         Rated insulation voltage       69/         Rated insulation voltage release       8         Electric current       44         Rated current of 690 VA C IEC 60947-2       6         Thermal protection nob setting XIN       0.63 / 0.8         Breaking capacity on 1 pole for IT 230V NF       51         Breaking capacity on 1 pole for IT 200V NF       50         60947-2       51         Breaking capacity on 1 pole for IT 400V NF       50         60947-2       50         Rated ultimate short-circuit breaking capacity Ics AC according IEC 60947-2       85         Rated ultimate short-circuit breaking capacity Ics AC according IEC 60947-2       50         Rated ultimate short-circuit breaking capacity Ics MC IEC 60947-2       85         Rated ultimate short-circuit breaking capacity Icu	Number of poles	3 P
Complete device with protection unit       N         Trip Unit       TM /         Integrated earth fault protection       Configuration         Number of modules       A         Main electrical features       Rated operational voltage Ue       220 / 41:         Frequency       50/60         Voltage       S0/60         Rated insulation voltage Ue       690         Rated insulation voltage release       690         Electric current       40         Rated current t       40         Rated ultimate short-circuit breaking capacity Icu under 690 VA C IEC 60947-2       6         Thermal protection nob setting xIN       0.63 / 0.8         Breaking capacity on 1 pole for IT 230V NF       50         6947-2       9         Rated ultimate short-circuit breaking capacity Ics AC according IEC 60947-2       85         Rated ultimate short-circuit breaking capacity Ics AC according IEC 60947-2       85         Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2       85         Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2       85         Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2       85         Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2       85 <tr< td=""><td>Type of pole</td><td>3P3D</td></tr<>	Type of pole	3P3D
Trip Unit       TM /         Integrated earth fault protection       Configuration         Number of modules       Amin electrical features         Rated operational voltage Ue       220 / 413         Frequency       50/60         Voltage       S0/60         Voltage       69/         Rated insulation voltage nease       69/         Electric current       8         With under voltage release       8         Electric current       4/         Rated ultimate short-circuit breaking capacity lcu under 690V AC IEC 60947-2       6         Thermal protection nob setting xIN       0.63 / 0.8         Breaking capacity on 1 pole for IT 230V NF 60947-2       50         S0947-2       9         Rated ultimate short-circuit breaking capacity lcs AC according IEC 60947-2       85         Rated ultimate short-circuit breaking capacity lcs AC according IEC 60947-2       85         Rated ultimate short-circuit breaking capacity lcs AC according IEC 60947-2       85         Rated ultimate short-circuit breaking capacity lcu under 240V AC IEC 60947-2       85         Rated ultimate short-circuit breaking capacity lcu under 240V AC IEC 60947-2       85         Rated ultimate short-circuit breaking capacity lcu under 240V AC IEC 60947-2       85         Rated ultimate short-circuit b	Functions	
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Configuration         Number of modules         Main electrical features         Rated operational voltage Ue       220 / 413         Frequency       50/60         Voltage       8         Rated insulation voltage       690         Rated insulation voltage release       8         With under voltage release       8         Electric current       40         Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2       6         Thermal protection nob setting xIN       0.63 / 0.8         Breaking capacity on 1 pole for IT 230V NF 60947-2       51         Breaking capacity on 1 pole for IT 230V NF 60947-2       50         Rated service breaking capacity Ics AC according IEC 60947-2       50         Rated service breaking capacity Ics AC according IEC 60947-2       85         Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2       85         Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2       85         Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2       85         Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2       85         Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2       85         Rated ultimate short-circuit breaki	Trip Unit	TM A/F
Number of modules          Number of modules       220 / 41         Main electrical features       220 / 41         Frequency       50/60         Voltage       8         Rated insulation voltage       690         Rated insulation voltage       690         Rated impulse withstand voltage       8         With under voltage release       8         Electric current       40         Rated dultimate short-circuit breaking       6         capacity Icu under 690V AC IEC 60947-2       6         Thermal protection nob setting xIN       0.63 / 0.8         Breaking capacity on 1 pole for IT 230V NF       50         60947-2       51         Breaking capacity on 1 pole for IT 400V NF       9         Rated service breaking capacity Ics AC       50         according IEC 60947-2       85         Rated ultimate short-circuit breaking       85         Rated ult	Integrated earth fault protection	No
Main electrical features         Rated operational voltage Ue       220 / 41:         Frequency       50/60         Voltage       690         Rated insulation voltage       690         Rated insulation voltage release       8         With under voltage release       8         Electric current       40         Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2       6         Thermal protection nob setting xIN       0.63 / 0.8         Breaking capacity on 1 pole for IT 230V NF       9         Rated service breaking capacity Ics AC according IEC 60947-2       50         Breaking capacity on 1 pole for IT 400V NF       9         Rated ultimate short-circuit breaking capacity Ics AC according IEC 60947-2       50         Rated ultimate short-circuit breaking capacity Ics AC according IEC 60947-2       85         Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2       85         Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2       85         Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2       40         Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2       40         Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2       40         Rated ul	Configuration	
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Frequency       50/60         Voltage       690         Rated insulation voltage       690         Rated impulse withstand voltage       8         With under voltage release       8         Electric current       40         Rated ultimate short-circuit breaking capacity lcu under 690V AC IEC 60947-2       6         Thermal protection nob setting xIN       0.63 / 0.8         Breaking capacity on 1 pole for IT 230V NF       51         Breaking capacity on 1 pole for IT 230V NF       51         Breaking capacity on 1 pole for IT 400V NF       9         Rated ultimate short-circuit breaking capacity lcu under 230V AC IEC 60947-2       50         Rated ultimate short-circuit breaking capacity lcu under 230V AC IEC 60947-2       85         Rated ultimate short-circuit breaking capacity lcu under 240V AC IEC 60947-2       85         Rated ultimate short-circuit breaking capacity lcu under 240V AC IEC 60947-2       85         Rated ultimate short-circuit breaking capacity lcu under 400V AC IEC 60947-2       85         Rated ultimate short-circuit breaking capacity lcu under 400V AC IEC 60947-2       85         Rated ultimate short-circuit breaking capacity lcu under 415V AC IEC 60947-2       40         Rated ultimate short-circuit breaking capacity lcu under 415V AC IEC 60947-2       40         Rated ultimate short-circuit breaking	Main electrical features	
Voltage         Rated insulation voltage       690         Rated impulse withstand voltage       8         With under voltage release       8         Electric current       40         Rated dultimate short-circuit breaking capacity lcu under 690V AC IEC 60947-2       6         Thermal protection nob setting xIN       0.63 / 0.8         Breaking capacity on 1 pole for IT 230V NF 60947-2       51         Breaking capacity on 1 pole for IT 400V NF 60947-2       9         Rated service breaking capacity lcs AC according IEC 60947-2       50         Rated ultimate short-circuit breaking capacity lcu under 230V AC IEC 60947-2       85         Rated ultimate short-circuit breaking capacity lcu under 240V AC IEC 60947-2       85         Rated ultimate short-circuit breaking capacity lcu under 240V AC IEC 60947-2       85         Rated ultimate short-circuit breaking capacity lcu under 240V AC IEC 60947-2       85         Rated ultimate short-circuit breaking capacity lcu under 400V AC IEC 60947-2       85         Rated ultimate short-circuit breaking capacity lcu under 400V AC IEC 60947-2       40         Rated ultimate short-circuit breaking capacity lcu under 415V AC IEC 60947-2       40         Rated ultimate short-circuit breaking capacity lcu under 415V AC IEC 60947-2       40         Rated ultimate short-circuit breaking capacity lcu under 415V AC IEC 60947-2 <td< td=""><td>Rated operational voltage Ue</td><td>220 / 415 V</td></td<>	Rated operational voltage Ue	220 / 415 V
Rated insulation voltage       690         Rated impulse withstand voltage       8         With under voltage release       8         Electric current       40         Rated current       40         Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2       6         Thermal protection nob setting xIN       0.63 / 0.8         Breaking capacity on 1 pole for IT 230V NF 60947-2       51         Breaking capacity on 1 pole for IT 400V NF 60947-2       9         Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2       50         Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2       85         Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2       85         Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2       85         Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2       40         Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2       40         Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2       40         Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2       40         Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2       40	Frequency	50/60 Hz
Rated impulse withstand voltage       8         With under voltage release       8         Electric current       40         Rated current       40         Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2       6         Thermal protection nob setting XIN       0.63 / 0.8         Breaking capacity on 1 pole for IT 230V NF 60947-2       51         Breaking capacity on 1 pole for IT 400V NF 60947-2       9         Rated service breaking capacity Ics AC according IEC 60947-2       50         Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2       85         Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2       85         Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2       85         Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2       40         Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2       40         Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2       40         Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2       40         Rated ultimate short-circuit breaking       40         Rated ultimate short-circuit breaking       40         Rated ultimate short-circuit breaking       40         Rated	Voltage	
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Electric current       40         Rated current       40         Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2       6         Thermal protection nob setting xIN       0.63 / 0.8         Breaking capacity on 1 pole for IT 230V NF 60947-2       51         Breaking capacity on 1 pole for IT 400V NF 60947-2       9         Rated service breaking capacity Ics AC according IEC 60947-2       50         Rated service breaking capacity Ics AC according IEC 60947-2       50         Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2       85         Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2       85         Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2       40         Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2       40         Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2       40         Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2       40         Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2       40         Rated ultimate short-circuit breaking	Rated impulse withstand voltage	8 kV
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capacity Icu under 400V AC IEC 60947-2     40       Rated ultimate short-circuit breaking     40       Rated ultimate short-circuit breaking     40       Rated ultimate short-circuit breaking     40		85 kA
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 <sup>2</sup> Front connectior
Connection Type of connection	4 / 95mm <sup>2</sup> Front connectior
Connection Type of connection Settings	4 / 95mm <sup>2</sup> Front connection with screw
Connection	4 / 95mm <sup>2</sup> Front connection with screw 600 A
Connection Type of connection Settings Range of the magnetic adjustment Setting type In or Ith	4 / 95mm <sup>2</sup> 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 <sup>2</sup> 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 <sup>2</sup> 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 <sup>2</sup> 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 <sup>2</sup> Front connection with screw 600 A IN
Connection Type of connection Settings Range of the magnetic adjustment	4 / 95mm <sup>2</sup>
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 <sup>2</sup> 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 <sup>2</sup> 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