



HDA078Z

Moulded Case Circuit Breaker X160 1P 18kA 80A

Technical properties

Type of pole 1P1E Functions Complete device with protection unit Yee Trip Unit TM F/ Integrated earth fault protection Configuration Number of modules 1.1 Main electrical features Rated operational voltage Ue 220 / 240 V Frequency 50/60 H Voltage Rated insulation voltage Ue 220 / 240 V Frequency 50/60 H Voltage Rated insulation voltage Ue 840 Voltage Rated insulation voltage 040 Rated ultimate short-circuit breaking capacity (voltage 047-2 Rated sprvice breaking capacity (cs AC according IEC 60947-2 Rated ultimate short-circuit breaking capacity (voltage 240 VAC IEC 60947-2 Rated ultimate short-circuit breaking capacity (voltage 240 VAC IEC 60947-2 Rated ultimate short-circuit breaking capacity (voltage 250 VAC IEC 60947-2 Rated ultimate short-circuit breaking capacity (voltage 250 VAC IEC 60947-2 Rated ultimate short-circuit breaking capacity (voltage 250 VAC IEC 60947-2 Rated ultimate short-circuit breaking capacity (voltage 250 VAC IEC 60947-2 Rated ultimate short-circuit breaking capacity (voltage 250 VAC IEC 60947-2 Rated ultimate short-circuit breaking capacity (voltage 250 VAC IEC 60947-2 Rated ultimate short-circuit breaking capacity (voltage 250 VAC IEC 60947-2 Rated ultimate short-circuit breaking capacity (voltage 250 VAC IEC 60947-2 Rated 250 VAC IEC 60947-2 Rated ultimate short-circuit breaking capacity (voltage 250 VAC IEC 60947-2 Rated 250 VAC IEC 60947-2 Rated ultimate short-circuit breaking capacity (voltage 250 VAC IEC 60947-2 Rated 250 VAC IEC	Type of order	Toggle
Functions Complete device with protection unit Yes Trip Unit TM F/I Integrated earth fault protection No Configuration No Number of modules 1.1 Main electrical features 220 / 240 V Rated operational voltage Ue 220 / 240 V Frequency 50/60 H Voltage 200 / 240 V Rated insulation voltage Ue 280 / 240 V Voltage 8 Rated insulation voltage Ue 280 / 260 V Rated insulation voltage release 860 / Rated insulation voltage release No Breaking capacity cu under 6900 VAC IEC 60947-2 4 k/ Thermal protection nob setting xIN 21 Breaking capacity on 1 pole for IT 230V NF 50 k 60947-2 15 k/ Breaking capacity on 1 pole for IT 230V NF 9 k/ Rated service breaking capacity ICS AC 200 / acording IEC 60947-2 18 k/ Rated ultimate short-circuit breaking 21 k/ Rated ultimate short-circuit breaking 21 k/ Rated ultimate short-circuit breaking 21 k/	Number of poles	1 F
Complete device with protection unit Yee Trip Unit TM F/I Integrated earth fault protection Nu Configuration Number of modules Number of modules 1.1 Main electrical features 220 / 240 N Rated operational voltage Ue 220 / 240 N Frequency 50/60 H Voltage 8 Rated insulation voltage 690 N Rated insulation voltage release Nu With under voltage release Nu Electric current 80 / Rated uurient of 900 VAC IEC 60947-2 4 k/ Thermal protection nob setting XIN 15 k/ Breaking capacity on 1 pole for IT 230V NF 9 k/ Breaking capacity on 1 pole for IT 400V NF 9 k/ Rated service breaking capacity Ics AC 100 9 Rated ultimate short-circuit breaking 18 k/ Rated ultimate short-circuit breaking 25 k/ Rated ultimate short-circuit breaking 25 k/ Rated service breaking capacity Ics AC 100 9 Rated ultimate short-circuit breaking 25 k/ Rated ultimate short-circuit breaking 25 k/ <	Type of pole	1P1D
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Integrated earth fault protection No Configuration Number of modules 1.1 Main electrical features Rated operational voltage Ue 220 / 240 \ Frequency 50/60 H Voltage Rated insulation voltage Applied	Complete device with protection unit	Yes
Configuration Number of modules 1.1 Main electrical features 220 / 240 \ Rated operational voltage Ue 220 / 240 \ Frequency 50/60 H Voltage 8 Rated insulation voltage 690 \ Rated insulation voltage 8 kt With under voltage release No Electric current 80 / Rated dultimate short-circuit breaking capacity Icu under 690 VAC IEC 60947-2 4 k/ Thermal protection nob setting xIN 1 Breaking capacity on 1 pole for IT 230V NF 60947-2 9 k/ Breaking capacity on 1 pole for IT 200 V NF 60947-2 9 k/ Rated service breaking capacity Ics AC according IEC 60947-2 100 9 Rated service breaking capacity Ics AC according IEC 60947-2 18 k/ Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 25 k/ Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 18 k/ Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 18 k/ Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 18 k/ Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 18 k	Trip Unit	TM F/F
Number of modules 1.1 Main electrical features 220 / 240 N Rated operational voltage Ue 220 / 240 N Frequency 50/60 H Voltage 8 Rated insulation voltage 690 N Rated insulation voltage 690 N Rated insulation voltage 8 kN With under voltage release No Electric current 80 / Rated current active release 80 / Rated ultimate short-circuit breaking 690 N capacity Icu under 690 VAC IEC 60947-2 4 k/ Thermal protection nob setting xIN 2 Breaking capacity on 1 pole for IT 230V NF 5 k/ Breaking capacity on 1 pole for IT 400V NF 9 k/ Rated service breaking capacity Ics AC 200 9 according IEC 60947-2 18 k/ Rated ultimate short-circuit breaking 25 k/	Integrated earth fault protection	Nc
Main electrical features Rated operational voltage Ue 220 / 240 V Frequency 50/60 H: Voltage 690 V Rated insulation voltage 690 V Rated insulation voltage 690 V Rated insulation voltage 8 kV With under voltage release No Electric current 80 / Rated dultimate short-circuit breaking 690 V capacity Icu under 690V AC IEC 60947-2 4 k/ Thermal protection nob setting xIN 3 Breaking capacity on 1 pole for IT 230V NF 9 k/ Breaking capacity on 1 pole for IT 230V NF 9 k/ Rated service breaking capacity Ics AC 300 9 according IEC 60947-2 18 k/ Rated ultimate short-circuit breaking 38 k	Configuration	
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Frequency 50/60 Hz Voltage 690 V Rated insulation voltage 690 V Rated impulse withstand voltage 8 kV With under voltage release No Electric current 80 / Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2 4 k/ Thermal protection nob setting xIN 1 Breaking capacity on 1 pole for IT 230V NF 15 k/ Breaking capacity on 1 pole for IT 400V NF 9 k/ Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 18 k/ Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 18 k/ Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 18 k/ Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 18 k/ Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 18 k/ Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 18 k/ Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 18 k/ Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 18 k/ Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 18 k/ <td>Main electrical features</td> <td></td>	Main electrical features	
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Rated current80 /Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-24 k/Thermal protection nob setting xIN1Breaking capacity on 1 pole for IT 230V NF 60947-215 k/Breaking capacity on 1 pole for IT 400V NF 60947-29 k/Rated service breaking capacity Ics AC according IEC 60947-2100 %Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-218 k/Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-225 k/Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-218 k/Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-218 k/Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-218 k/Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-218 k/Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-218 k/Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-218 k/Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-218 k/Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-218 k/	With under voltage release	No
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capacity Icu under 415V AC IEC 60947-2 18 k/ Rated ultimate short-circuit breaking	-	18 kA
		18 kA
		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	4.8 W
Power loss per pole at In	4.8 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. flexible conductor Connection cross-sect_rigid cable	
Connection cross-sect. rigid cable	4 / 95mm²
Connection cross-sect. rigid cable Connection	4 / 95mm² Front connection
Connection cross-sect. rigid cable Connection	4 / 95mm² Front connection
Connection cross-sect. rigid cable Connection Type of connection Settings	4 / 95mm ² Front connection with screw
Connection cross-sect. rigid cable Connection Type of connection Settings Range of the magnetic adjustment	4 / 95mm ² Front connection with screw 1000 A
Connection cross-sect. rigid cable Connection Type of connection Settings	4 / 95mm ² Front connection with screw 1000 A
Connection cross-sect. rigid cable Connection Type of connection Settings Range of the magnetic adjustment	4 / 95mm ² Front connection with screw 1000 A
Connection cross-sect. rigid cable Connection Type of connection Settings Range of the magnetic adjustment Setting type In or Ith	4 / 95mm ² Front connection with screw 1000 A
Connection cross-sect. rigid cable 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 1000 A IN
Connection cross-sect. rigid cable 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 Front connection with screw 1000 A IN
Connection cross-sect. rigid cable 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 Front connection with screw 1000 A IN
Connection cross-sect. rigid cable 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 Front connection with screw 1000 A IN
Connection cross-sect. rigid cable 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 1000 A IN C C C C No
Connection cross-sect. rigid cable 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 1000 A IN C C C C No
Connection cross-sect. rigid cable 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 / 70mm ² 4 / 95mm ² Front connection with screw 1000 A 1000 A IN 0 0 0 0 0 0 0 0 0 0 0 0 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