



HHA125Z

Moulded Case Circuit Breaker X160 3P 25kA 125A

Technical properties

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Number of poles 3 P Type of pole 3P3D Type of po		
Functions Complete device with protection unit TM F/F With integrated earth leakage fault protection With integrated earth leakage fault protection No Configuration Sumber of modules A.5 Main electrical features Rated operational voltage Ue Rated insulation voltage Rated insulation voltage Rated insulation voltage Rated insulation voltage Rated insulation voltage Rated insulation voltage Rated insulation voltage Rated insulation voltage Rated insulation voltage Rated insulation voltage Rated insulation voltage Rated insulation voltage Rated insulation voltage Rated insulation voltage Rated insulation voltage Rated insulation voltage Rated insulation voltage Rated insulation voltage Rated insulation voltage Rated insulation voltage Rated current Rated current Rated current Rated current Rated current Rated operation nob setting xiN 1 Rateaking capacity on 1 pole for IT 230V NF 30947-2 2 1 kA Rated service breaking capacity ics AC seconding IEC 60947-2 Rated ultimate short-circuit breaking capacity icu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity icu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity icu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity icu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity icu under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity icu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity icu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity icu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity icu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity icu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity icu under 415V AC IEC 60947-2 25 kA	Type of order	Toggle
Functions Complete device with protection unit Yes Trip Unit TM F/F With integrated earth leakage fault protection No Configuration Number of modules Asted operational voltage Ue Serequency Sol/60 Hz Voltage Rated insulation voltage Rated insulation voltage Rated insulation voltage Rated insulation voltage release No Selectric current Rated current Rated current Rated current Rated ultimate short-circuit breaking capatity Icu under 490V AC IEC 60947-2 Rated service breaking capacity on 1 pole for IT 400V NF 50947-2 Rated service breaking capacity on 1 pole for IT 400V NF 50947-2 Rated ultimate short-circuit breaking capatity Icu under 450V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity Icu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity Icu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity Icu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity Icu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity Icu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity Icu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity Icu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity Icu under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity Icu under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity Icu under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity Icu under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity Icu under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity Icu under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity Icu under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity Icu under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity Icu under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity Icu under 400V AC IEC 60947-2 Rated ultimate short-circuit br	Number of poles	3 P
Complete device with protection unit TM F/F With integrated earth leakage fault protection No Configuration Number of modules Asted operational voltage Ue Serequency Solfon Hz Frequency Solfon Hz With under voltage release No Rated inpulse withstand voltage Rated current Rated current Rated current Rated current Rated current Rated ultimate short-circuit breaking capatity lcu under 590 v AC IEC 60947-2 Rated service breaking capacity on 1 pole for IT 400 v NF 50947-2 Rated ultimate short-circuit breaking capatity lcu under 230 v AC IEC 60947-2 Rated ultimate short-circuit breaking capatity lcu under 230 v AC IEC 60947-2 Rated ultimate short-circuit breaking capatity lcu under 240 v AC IEC 60947-2 Rated ultimate short-circuit breaking capatity lcu under 230 v AC IEC 60947-2 Rated ultimate short-circuit breaking capatity lcu under 230 v AC IEC 60947-2 Rated ultimate short-circuit breaking capatity lcu under 230 v AC IEC 60947-2 Rated ultimate short-circuit breaking capatity lcu under 240 v AC IEC 60947-2 Rated ultimate short-circuit breaking capatity lcu under 240 v AC IEC 60947-2 Rated ultimate short-circuit breaking capatity lcu under 415 v AC IEC 60947-2 Rated ultimate short-circuit breaking capatity lcu under 415 v AC IEC 60947-2 Rated ultimate short-circuit breaking capatity lcu under 415 v AC IEC 60947-2 Z5 kA Rated ultimate short-circuit breaking capatity lcu under 415 v AC IEC 60947-2 Z5 kA Rated ultimate short-circuit breaking capatity lcu under 415 v AC IEC 60947-2 Z5 kA Rated ultimate short-circuit breaking capatity lcu under 415 v AC IEC 60947-2 Z5 kA Rated ultimate short-circuit breaking capatity lcu under 415 v AC IEC 60947-2 Z5 kA Rated ultimate short-circuit breaking capatity lcu under 415 v AC IEC 60947-2 Z5 kA Rated ultimate short-circuit breaking capatity lcu under 415 v AC IEC 60947-2 Z5 kA	Type of pole	3P3D
Trip Unit TM F/F With integrated earth leakage fault protection No Configuration Number of modules 4.5 Main electrical features Rated operational voltage Ue 220 / 415 V Frequency 50/60 Hz Voltage Rated insulation voltage 690 V Rated insulation voltage 8 kV With under voltage release No Rated current Rated current 125 A Rated current 125 A Rated ultimate short-circuit breaking capatity lcu under 690 V AC IEC 60947-2 Rated service breaking capacity on 1 pole for IT 230V NF 50947-2 Rated service breaking capacity on 1 pole for IT 400V NF 50947-2 Rated ultimate short-circuit breaking capatity lcu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity lcu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity lcu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity lcu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity lcu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity lcu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity lcu under 410V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity lcu under 410V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity lcu under 410V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity lcu under 410V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity lcu under 410V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity lcu under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity lcu under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity lcu under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity lcu under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity lcu under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity lcu under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity lcu under 415V AC IEC 60947-2	Functions	
With integrated earth leakage fault protection No Configuration Number of modules 4.5 Main electrical features Rated operational voltage Ue 220 / 415 V Frequency 50/60 Hz Voltage Rated insulation voltage 9690 V Rated insulation voltage 9690 V Rated impulse withstand voltage 9690 V With under voltage release No Electric current Rated current 125 A Rated ultimate short-circuit breaking capatity Icu under 6900 V AC IEC 60947-2 4 kA Frequency 4 kA Rated service breaking capacity on 1 pole for IT 230V NF 50947-2 9 kA Rated service breaking capacity Ics AC Rated service breaking capacity Ics AC Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 35 kA Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 35 kA Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 35 kA Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 35 kA Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 35 kA Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 35 kA Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 35 kA Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 35 kA Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 35 kA Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 25 kA	Complete device with protection unit	Yes
Sourier of modules 4.5 Main electrical features Rated operational voltage Ue 220 / 415 V Frequency 50/60 Hz Voltage Rated insulation voltage 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Trip Unit	TM F/F
Main electrical features Rated operational voltage Ue 220 / 415 V Frequency 50/60 Hz Voltage Rated insulation voltage 690 V Rated impulse withstand voltage 8 kV With under voltage release No Electric current Rated current 125 A Rated ultimate short-circuit breaking capacity Icu under 690 V A IEC 60947-2 4 kA Rated service breaking capacity on 1 pole for IT 230V NF 50947-2 2 1 kA Rated service breaking capacity Ics AC Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 80 % Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 35 kA Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 35 kA Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 35 kA Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 35 kA Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 35 kA Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 25 kA	With integrated earth leakage fault protection	No
Main electrical features Rated operational voltage Ue 220 / 415 V Frequency 50/60 Hz Frequency 690 V Frequency	Configuration	
Rated operational voltage Ue 220 / 415 V Frequency 50/60 Hz Voltage Rated insulation voltage 690 V Rated impulse withstand voltage 8 kV With under voltage release No Electric current Rated current 125 A Rated ultimate short-circuit breaking capacity lcu under 690V AC IEC 60947-2 4 kA Rated spacety on 1 pole for IT 230V NF 60947-2 21 kA Rated service breaking capacity lcs AC Rated service breaking capacity lcs AC Rated ultimate short-circuit breaking capacity lcu under 230V AC IEC 60947-2 80 % Rated ultimate short-circuit breaking capacity lcu under 230V AC IEC 60947-2 35 kA Rated ultimate short-circuit breaking capacity lcu under 240V AC IEC 60947-2 35 kA Rated ultimate short-circuit breaking capacity lcu under 240V AC IEC 60947-2 35 kA Rated ultimate short-circuit breaking capacity lcu under 240V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity lcu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity lcu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity lcu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity lcu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity lcu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity lcu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity lcu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity lcu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity lcu under 415V AC IEC 60947-2 25 kA	Number of modules	4.5
Frequency 50/60 Hz Voltage Rated insulation voltage 690 V Rated impulse withstand voltage 8 kV With under voltage release No Retectric current Rated current 125 A Rated ultimate short-circuit breaking capa- city Icu under 690 V AC IEC 60947-2 4 kA Thermal protection nob setting xIN 1 Breaking capacity on 1 pole for IT 230 V NF 50947-2 21 kA Rated service breaking capacity Ics AC Rated service breaking capacity Ics AC Rated ultimate short-circuit breaking capa- city Icu under 230 V AC IEC 60947-2 35 kA Rated ultimate short-circuit breaking capa- city Icu under 240 V AC IEC 60947-2 35 kA Rated ultimate short-circuit breaking capa- city Icu under 240 V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capa- city Icu under 400 V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capa- city Icu under 415 V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capa- city Icu under 415 V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capa- city Icu under 415 V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capa- city Icu under 415 V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capa- city Icu under 415 V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capa- city Icu under 415 V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capa- city Icu under 415 V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capa- city Icu under 415 V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capa-	Main electrical features	
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Rated impulse withstand voltage 8 kV With under voltage release No Electric current Rated current 125 A Rated ultimate short-circuit breaking capatity Icu under 690V AC IEC 60947-2 4 kA Reraking capacity on 1 pole for IT 230V NF 50947-2 21 kA Reaking capacity on 1 pole for IT 400V NF 50947-2 9 kA Rated service breaking capacity Ics AC Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 35 kA Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 35 kA Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 35 kA Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 35 kA Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 25 kA	Voltage	
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Breaking capacity on 1 pole for IT 400V NF 60947-2 Rated service breaking capacity Ics AC Raccording IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	Thermal protection nob setting xIN	1
80 % Rated service breaking capacity Ics AC according IEC 60947-2 80 % Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 35 kA Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 35 kA Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 35 kA Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 25 kA	Breaking capacity on 1 pole for IT 230V NF 60947-2	21 kA
Rated ultimate short-circuit breaking capa- city Icu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capa- city Icu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capa- city Icu under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capa- city Icu under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capa- city Icu under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capa- city Icu under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capa- city Icu under 415V AC IEC 60947-2	Breaking capacity on 1 pole for IT 400V NF 60947-2	9 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	Rated service breaking capacity Ics AC according IEC 60947-2	80 %
Rated ultimate short-circuit breaking capatity Icu under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity Icu under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity Icu under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity Icu under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capatity Icu under 415V AC IEC 60947-2	Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	35 kA
25 kA Rated ultimate short-circuit breaking capa- city Icu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capa-	Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	35 kA
city Icu under 415V AC IEC 60947-2 25 kA Rated ultimate short-circuit breaking capa-	Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	25 kA
	Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	25 kA
	Rated ultimate short-circuit breaking capacity Icu under 440V AC IEC 60947-2	20 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	33 W
Power loss per pole at In	11 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	4 / 95mm²
Connection	Front connection
Type of connection	with screw
Settings	
Range of the magnetic adjustment	1500 A
Setting type In or Ith	IN
Equipment	
Number of auxiliary contacts as normally closed contact	0
Number of auxiliary contacts as normally open contact	0
Number of auxiliary contacts as change- over contact	0
Motor drive optional	No
Use cases	
Category of use	А
Standards	
Standard text	IEC 60947-2

European directive WEEE

not concerned

Use conditions

Altitude 2000 m

Air humidity protection

for all climates