HHA161H

Moulded Case Circuit Breaker X160 4P 25kA 160A

Technical properties

Architecture

Type of order	Toggle
Number of poles	4 P
Type of pole	4P4D

Functions

Complete device with protection unit	Yes
Trip Unit	TM A/F
With integrated earth leakage fault protection	No

Configuration

Number of modules	6

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	160 A
Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2	4 kA
Thermal protection nob setting xIN	0.63 / 0.8 / 1
Thermal setting current on neutral pole	1 In
Breaking capacity on 1 pole for IT 230V NF 60947-2	21 kA
Breaking capacity on 1 pole for IT 400V NF 60947-2	9 kA
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 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	43.8 W
Power loss per pole at In	14.6 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	No

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	1600 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	A

Standards	
Standard text	IEC 60947-2

Use conditions	
Operating temperature	-25...70 °C
Altitude	2000 m
Air humidity protection	for all climates
Storage/transport temperature	-35...70 °C