



HHA100H

MCCB X160 3P 25kA 100A

Architecture

Type of order	Toggle
Type of case	Fixed built-in
Number of poles	3 P
Type of pole	3P3D

Functions

Complete device with protection unit	yes
Trip Unit	TM A/F
Integrated earth fault protection	no

Controls and indicators

Motor drive integrated	no
------------------------	----

Main electrical features

Frequency	50/60 Hz
Rated operational voltage Ue	220/415 V

Voltage

Rated insulation voltage	690 V
Rated impulse withstand voltage	8000 V
With under voltage release	no

Electric current

Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	25 kA
Rated service breaking capacity Ics AC according IEC 60947-2	80 %
Breaking capacity on 1 pole with 230 V NF 60947-2	21 kA
Breaking capacity on 1 pole with 400 V NF 60947-2	9 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 415V AC IEC 60947-2	25 kA

#### Technical Properties

Rated ultimate short-circuit breaking capacity Icu under 440V AC IEC 60947-2	20 kA
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

#### Current correction factors

Correction factor of rating current for 2 devices placed 1 side-by-side	
Correction factor of rating current for 3 devices placed 1 side-by-side	
Correction factor of rating current for 4 and 5 devices 1 placed side-by-side	
Correction factor of rating current for 6 devices placed 1 side-by-side	

#### Power

Power loss per pole at In	11,9 W
Power loss per pole at 0.63*In	4,7 W
Power loss per pole at 0.8*In	7,6 W
Total power loss under IN	35,7 W
Total power loss at 0.63*In	14,2 W
Total power loss at 0.8*In	22,9 W

#### Tripping

Trip mode	TM
time of response when opening	10 ms

#### Endurance

Electric endurance in number of cycles	1000
Number of mechanical operations	4000

#### Installation, mounting

Tightening torque	6Nm
DIN rail mounting with optional adaptor	no

#### Connection

Connection cross-sect. rigid cable	4 / 95mm <sup>2</sup>
Connection cross-sect. flexible cable	4 / 70mm <sup>2</sup>
Connection type of connection	Front connection with screw

#### Settings

Range of the magnetic adjustment	1500 A
----------------------------------	--------

#### Equipment

Motor drive optional	no
----------------------	----

#### Use cases

Category of use	A
-----------------	---

#### Standards

Standard text	IEC 60947-2
European directive RoHs	voluntary compliance
European directive WEEE	concerned

#### Safety

Protection index IP	IP4X
---------------------	------

#### Use conditions

Altitude	2000 m
Storage temperature	-35 to 70 °C
Air humidity protection	for all climates