



MCCB X160 1P 25kA 25A

HHA023Z

Architecture

Type of order	Toggle
Number of poles	1 P
Type of pole	1P1D

Functions

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

Compatibility

Compatible with DIN rail mounting	no
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Main electrical features

Rated operational voltage U_e	220 / 240 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	25 A
Rated ultimate short-circuit breaking capacity I_{cu} under 690V AC IEC 60947-2	4 kA
Thermal protection nob setting xIN	1
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 I_{cs} AC according IEC 60947-2	80 %
Rated ultimate short-circuit breaking capacity I_{cu} under 230V AC IEC 60947-2	25 kA
Rated ultimate short-circuit breaking capacity I_{cu} under 240V AC IEC 60947-2	35 kA
Rated ultimate short-circuit breaking capacity I_{cu} under 400V AC IEC 60947-2	25 kA

Technical Properties

Rated ultimate short-circuit breaking capacity I _{cu} under 415V AC IEC 60947-2	25 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 440V AC IEC 60947-2	20 kA

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

Total power loss under I _N	4,3 W
Power loss per pole at I _N	4,3 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	yes

Connection

Connection cross-sect. flexible conductor	4 / 70mm ²
Connection cross-sect. rigid cable	4 / 95mm ²
Connection	Front connection
Type of connection	with screw

Settings

Range of the magnetic adjustment	600 A
Setting type I _N or I _{th}	I _N

Equipment

Motor drive optional	no
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Use cases

Category of use	A
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Standards

Standard text	IEC 60947-2
European directive WEEE	concerned

Safety

Protection index IP	IP4X
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Use conditions

Altitude	2000 m
Air humidity protection	for all climates