



HDA051Z

Moulded Case Circuit Breaker X160 4P 18kA 50A

Technical properties

Architecture

Number of poles	4 P
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Functions

Complete device with protection unit	Yes
Trip Unit	TM F/F
Integrated earth fault protection	No

Configuration

Number of modules	6
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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	50 A
Rated ultimate short-circuit breaking capacity I _{cu} under 690V AC IEC 60947-2	4 kA
Thermal protection nob setting xI _N	1
Thermal setting current on neutral pole	1 I _N
Breaking capacity on 1 pole for IT 230V NF 60947-2	15 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	100 %
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	25 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 400V AC IEC 60947-2	18 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 415V AC IEC 60947-2	18 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 440V AC IEC 60947-2	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	17.3 W
Power loss per pole at In	5.8 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 adaptor	Yes
Connection	
Connection cross-sect. rigid cable	4 / 95mm ²
Settings	
Range of the magnetic adjustment	600 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
European directive WEEE	concerned
Use conditions	
Altitude	2000 m