



HNA051Z

Moulded Case Circuit Breaker x160 4P 40kA 50A

Technical properties

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Type of order	Toggle
Number of poles	4 P
Type of pole	4P4D
Functions	
Complete device with protection unit	Yes
Trip Unit	TM F/F
Integrated earth 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	50 A
Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2	6 kA
Thermal protection nob setting xIN	1
Thermal setting current on neutral pole	1 In
Breaking capacity on 1 pole for IT 230V NF 60947-2	51 kA
Breaking capacity on 1 pole for IT 400V NF 60947-2	9 kA
Rated service breaking capacity Ics AC according IEC 60947-2	50 %
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	85 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	85 kA
Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	40 kA
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	40 kA

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devices placed side-by-side Correction factor of rating current for 3 devices placed side-by-side Correction factor of rating current for 4 and 5 devices placed side-by-side Correction factor of rating current for 6 devices placed side-by-side Power Total power loss under IN	1
devices placed side-by-side Correction factor of rating current for 4 and 5 devices placed side-by-side Correction factor of rating current for 6 devices placed side-by-side Power Total power loss under IN	1
5 devices placed side-by-side Correction factor of rating current for 6 devices placed side-by-side Power Total power loss under IN 17	
Power Total power loss under IN 17	1
Total power loss under IN 17	
Power loss per pole at In	7.3 W
	5.8 W
Tripping	
Tripmode	TM
Thermal protection trip time	0 ms
Time of response when opening 1	.0 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 / 70)mm²
Connection cross-sect. rigid cable 4 / 95	imm²
Connection Front conne	ction
Type of connection with s	crew
Settings	
Range of the magnetic adjustment	500 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	

Standards Standard text IEC 60947-2 Use conditions Altitude 2000 m Air humidity protection for all climates