



HNA017Z

## Moulded Case Circuit Breaker x160 4P 40kA 16A

### 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 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	16 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

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

25 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 I <sub>N</sub>	5.3 W
Power loss per pole at I <sub>N</sub>	1.8 W

### Tripping

Trip mode	TM
Thermal protection trip time	0 ms
Time of response when opening	10 ms

### Electrical specifications

Magnetic trip delay time	0 ms
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### Endurance

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

### Installation, mounting

DIN rail mounting with optional adaptor	Yes
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### Connection

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

### Settings

Range of the magnetic adjustment	600 A
Setting type I <sub>N</sub> or I <sub>th</sub>	I <sub>N</sub>

### 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
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**Standards**

Standard text

IEC 60947-2

**Use conditions**

Altitude

2000 m

Air humidity protection

for all climates