



HNA040U

**Moulded Case Circuit Breaker h3 x160 TM ADJ 3P3D 40A 40kA CTC**

**Technical properties**

**Architecture**

Neutral position	without neutral
Number of protected poles	3
Number of poles	3 P
Type of pole	3P3D

**Functions**

Trip Unit	TM A/F
Integrated earth fault protection	No
Concurrently switching N-neutral	No

**Controls and indicators**

Motor drive integrated	No
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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	40 A
Thermal protection nob setting xIN	0.63 / 0.8 / 1
Rating current 10°C according to IEC 60947	49.8 A
Rating current 15°C according to IEC 60947	48.7 A
Rating current 20°C according to IEC 60947	47.5 A
Rating current 25°C according to IEC 60947	46.4 A
Rating current 30°C according to IEC 60947	45.2 A
Rating current 35°C according to IEC 60947	43.9 A
Rating current 40°C according to IEC 60947	42.6 A
Rating current 45°C according to IEC 60947	41.3 A
Rating current 50°C according to IEC 60947	40 A
Rating current 55°C according to IEC 60947	38.5 A
Rating current 60°C according to IEC 60947	37.1 A
Rating current 65°C according to IEC 60947	35.6 A
Rating current 70°C according to IEC 60947	34 A

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
Range of the thermal adjustment	25 / 32 / 40 A
Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2	40 kA

### Dimensions

Depth of installed product	68 mm
Height of installed product	130 mm
Width of installed product	75 mm

### Frequency

Frequency	50 to 60 Hz
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### Power

Power loss per pole at 0.63*In	1.4 W
Power loss per pole at 0.8*In	2.3 W
Total power loss at 0.63*In	4.3 W
Total power loss at 0.8*In	7 W
Total power loss under IN	11 W
Power loss per pole at In	3.7 W

### Endurance

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

### Connection

Type of connection	with screw
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### Settings

Range of the magnetic adjustment	600 A
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### 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
Can be accessorized	Yes

### Standards

Standard text	IEC 60947-2
European directive WEEE	concerned

### Safety

Protection index IP	IP4X
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REACH conform	Yes
RoHS conform	Yes
Halogen free	No
<b>Use conditions</b>	
Degree of pollution according to IEC 60664 / IEC 60947-2	3
Altitude	2000 m
<b>temperatur</b>	
Temperature of calibration	50 °C