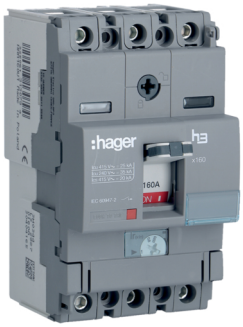

HHA160U

Moulded Case Circuit Breaker h3 x160 TM ADJ 3P3D 160A 25kA CTC

Technical characteristics

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
With integrated earth leakage fault protection	No
Concurrently switching N-neutral	No

Controls and indicators

Motor drive integrated	No

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	160 A
Thermal protection nob setting xIN	0.63 / 0.8 / 1
Rating current 10°C according to IEC 60947	188.5 A
Rating current 15°C according to IEC 60947	185.2 A
Rating current 20°C according to IEC 60947	181.8 A
Rating current 25°C according to IEC 60947	178.3 A
Rating current 30°C according to IEC 60947	174.8 A
Rating current 35°C according to IEC 60947	171.2 A
Rating current 40°C according to IEC 60947	167.5 A
Rating current 45°C according to IEC 60947	163.8 A
Rating current 50°C according to IEC 60947	160 A
Rating current 55°C according to IEC 60947	156 A
Rating current 60°C according to IEC 60947	152 A
Rating current 65°C according to IEC 60947	147.8 A
Rating current 70°C according to IEC 60947	143.6 A

Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	35 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	35 kA
Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	25 kA
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	25 kA
Range of the thermal adjustment	100 / 125 / 160 A
Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2	25 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

Power

Power loss per pole at 0.63*In	5.7 W
Power loss per pole at 0.8*In	8.9 W
Total power loss at 0.63*In	17.1 W
Total power loss at 0.8*In	26.7 W
Total power loss under IN	43.8 W
Power loss per pole at In	14.6 W

Endurance

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

Connection

Type of connection	with screw

Settings

Range of the magnetic adjustment	1600 A

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

Safety

REACH conform	Yes
RoHS conform	Yes

Halogen free	No

Use conditions

Degree of pollution according to IEC 60664 / IEC 60947-2	3
Altitude	2000 m

temperatur

Temperature of calibration	50 °C