



HNS041DC

Moulded Case Circuit Breaker h3+ P160 TM ADJ 4P4D N0-100% 40A 40kA CTC

Technical characteristics

Type of order	Toggle
Neutral position	left
Number of protected poles	4
Number of poles	4 P
Type of pole	4P4D N:0/100%
Type of case	Fixed built-in
Functions	
Complete device with protection unit	Yes
Reversing switch	No
Version as main switch	Yes
Version as emergency stop installation	No
Version as safety switch	No
Version as maintenance-/service switch	Yes
Trip Unit	TM A/A
Integrated earth fault protection	No
Concurrently switching N-neutral	Yes
Controls and indicators	
Motor drive integrated	No

Main electrical features

Rated operational voltage Ue	220 / 690 V
Type of supply voltage	AC
Frequency	50/60 Hz

Voltage

Rated insulation voltage	800 V
Rated impulse withstand voltage	8 kV
With under voltage release	No

Electric current

Rated current	40 A
Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2	6 kA
Thermal protection nob setting xIN	0.63 / 0.8 / 1
Rating current 10°C according to IEC 60947	49.9 A
Rating current 15°C according to IEC 60947	48.8 A
Rating current 20°C according to IEC 60947	47.6 A

Subject to technical modifications

Rating current 25°C according to IEC 60947	46.5 A
Rating current 30°C according to IEC 60947	45.2 A
Rating current 35°C according to IEC 60947	44 A
Rating current 40°C according to IEC 60947	42.7 A
Rating current 45°C according to IEC 60947	41.4 A
Rating current 50°C according to IEC 60947	40 A
Rating current 55°C according to IEC 60947	38.6 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 service breaking capacity Ics under 660V AC according IEC 60947-2	6 kA
Breaking capacity on 1 pole for IT 230V NF 60947-2	6 kA
Breaking capacity on 1 pole for IT 400V NF 60947-2	6 kA
Breaking capacity on 1 pole for IT 415V NF 60947-2	6 kA
Breaking capacity on 1 pole for IT 690V NF 60947-2	2.5 kA
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	50 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 service breaking capacity Ics under 110-138V AC according IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2	40 kA
Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2	6 kA
Dimensions	
Depth of installed product	97 mm
Height of installed product	130 mm
Width of installed product	120 mm
Frequency	
Frequency	50 to 60 Hz
Power	
Power loss per pole at 0.63*In	3.46 W
Power loss per pole at 0.8*In	5.68 W
Tatal nowar loss at 0.62*In	10.39 W
Total power loss at 0.63*In	
Total power loss at 0.8*In	17.03 W
·	17.03 W 27.9 W

Short-time delayed tripping	N
Endurance	
Electric endurance in number of cycles	1000
Number of mechanical operations	4000
Cover, door	
Interlockable	Ye
Installation, mounting	
Tightening torque	6Nr
DIN rail mounting with optional adaptator	Ye
Suitable for front mounting center	Ν
Suitable for front mounting	Ν
Suitable for ground mounting	Ye
Connection	
Connection cross-sect. flexible conductor	6 / 70mm
Connection cross-sect. rigid cable	6 / 95mm
Connection	Front connectio
Type of connection	with screw
	fixe
Instantaneous protection (li): type	fixe
Protection Instantaneous protection (li): type Cable Cable Material	fixe
Instantaneous protection (li): type	
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Instantaneous protection (li): type Cable Cable Material Settings	C 240 / 320 / 400 / 480
Instantaneous protection (li): type Cable Cable Material Settings Range of the magnetic adjustment	C 240 / 320 / 400 / 480
Instantaneous protection (li): type Cable Cable Material Settings Range of the magnetic adjustment Magnetic protection nob setting xIN	C 240 / 320 / 400 / 480 6 / 8 / 10 / 1
Instantaneous protection (li): type Cable Cable Cable Material Settings Range of the magnetic adjustment Magnetic protection nob setting xIN Equipment Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally	C 240 / 320 / 400 / 480 6 / 8 / 10 / 1
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Instantaneous protection (li): type Cable Cable Cable Material Settings Range of the magnetic adjustment Magnetic protection nob setting xIN Equipment Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change- over contact	C 240 / 320 / 400 / 480 6 / 8 / 10 / 1
Instantaneous protection (li): type Cable Cable Cable Material Settings Range of the magnetic adjustment Magnetic protection nob setting xIN Equipment Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change- over contact Motor drive optional Can be accessorized	C 240 / 320 / 400 / 480 6 / 8 / 10 / 1
Instantaneous protection (li): type Cable Cable Cable Material Settings Range of the magnetic adjustment Magnetic protection nob setting xIN Equipment Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change- over contact Motor drive optional Can be accessorized Use cases	C 240 / 320 / 400 / 480 6 / 8 / 10 / 1
Instantaneous protection (li): type Cable Cable Cable Material Settings Range of the magnetic adjustment Magnetic protection nob setting xIN Equipment Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change- over contact Motor drive optional Can be accessorized Use cases Category of use	C 240 / 320 / 400 / 480 6 / 8 / 10 / 1
Instantaneous protection (li): type Cable Cable Cable Material Settings Range of the magnetic adjustment Magnetic protection nob setting xIN Equipment Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change- over contact Motor drive optional	C

IEC 60947-2

Standard text

Safety REACH conform Yes RoHS conform Yes Halogen free No Use conditions Yes

Degree of pollution according to IEC 60664 / IEC 60947-2	3
Altitude	2000 m
Air humidity protection	95%HR 55°C sev Kn (IEC 68-2-30/52)

temperatur

Temperature of calibration

50 °C