



HNS041DC

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

**Technical characteristics**

**Architecture**

Neutral position	left
Number of protected poles	4
Number of poles	4 P
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
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**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
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
<b>Dimensions</b>	
Depth of installed product	97 mm
Height of installed product	130 mm
Width of installed product	120 mm
<b>Frequency</b>	
Frequency	50 to 60 Hz
<b>Power</b>	
Power loss per pole at 0.63*In	3.46 W
Power loss per pole at 0.8*In	5.68 W
Total power loss at 0.63*In	10.39 W
Total power loss at 0.8*In	17.03 W
Total power loss under IN	27.9 W
Power loss per pole at In	9.3 W
<b>Tripping</b>	
Short-time delayed tripping	No

Subject to technical modifications

**Endurance**

Electric endurance in number of cycles	10000
Number of mechanical operations	40000

**Cover, door**

Interlockable	Yes
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**Installation, mounting**

Tightening torque	6Nm
DIN rail mounting with optional adaptor	Yes
Suitable for front mounting center	No
Suitable for front mounting	No
Suitable for ground mounting	Yes

**Connection**

Connection cross-sect. rigid cable	6 / 95mm <sup>2</sup>
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**Protection**

Instantaneous protection (li): type	fixed
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**Cable**

Cable Material	Cu
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**Settings**

Range of the magnetic adjustment	240 / 320 / 400 / 480 A
Magnetic protection nob setting xIN	6 / 8 / 10 / 12

**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
Can be accessorized	Yes

**Use cases**

Category of use	A
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**Use**

Vibrations and shocks withstand	IEC 68068-2-52 Test FC
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**Standards**

Standard text	IEC 60947-2
European directive WEEE	concerned

**Use conditions**

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

