



HNS040NR

**Moulded Case Circuit Breaker h3+ P160 Energy 3P3D 40A 40kA FTC**

**Technical Features**

**Electric current**

Rated current	40 A
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**Architecture**

Number of poles	3
Control/operation element	Toggle
Device construction type	Fixed built-in
Neutral position	Without neutral

**Electric current**

Rated ultimate short-circuit breaking capacity Icu under 400 V AC IEC 60947-2	40 kA
Rated ultimate short-circuit breaking capacity Icu under 240 V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity Icu under 415 V AC IEC 60947-2	40 kA
Rated ultimate short-circuit breaking capacity Icu under 690 V AC IEC 60947-2	6 kA
Rated service breaking capacity Ics under 220 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity Ics under 230 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity Ics under 240 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity Ics under 380 V AC according to IEC 60947-2	40 kA
Rated service breaking capacity Ics under 400 V AC according to IEC 60947-2	40 kA
Rated service breaking capacity Ics under 415 V AC according to IEC 60947-2	40 kA
Rated service breaking capacity Ics under 690 V AC according to IEC 60947-2	6 kA
Rated current 10°C according to IEC 60947	40 A
Rated current 15°C according to IEC 60947	40 A
Rated current 20°C according to IEC 60947	40 A
Rated current 25°C according to IEC 60947	40 A
Rated current 30°C according to IEC 60947	40 A
Rated current at 35°C according to IEC 60947	40 A
Rated current at 40°C according to IEC 60947	40 A
Rated current 45°C according to IEC 60947	40 A
Rated current 50°C according to IEC 60947	40 A
Rated current 55°C according to IEC 60947	40 A
Rated current at 60°C according to IEC 60947	40 A
Rated current 65°C according to IEC 60947	40 A
Rated current 70°C according to IEC 60947	40 A

**Frequency**

Frequency	50 - 60 Hz
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**Voltage**

Rated impulse withstand voltage Uimp	8000 V
Rated insulation voltage Ui	800 V
Rated operational voltage Ue	220 - 690 V

**Power**

Total power loss under IN	1.68 W
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**Functions**

Trip unit	ENERGY
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**Endurance**

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

**Safety**

Ingress Protection (IP) class	IP4X
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**Installation, mounting**

Nominal tightening torque	6 - 6 Nm
Mounting-/Connection Position	Front

**Connection**

Cross-section flexible conductor	6 - 70 mm <sup>2</sup>
Cross-section rigid conductor	6 - 95 mm <sup>2</sup>

**Cover, door**

Interlockable	Yes
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**Cable**

Cable material	Copper Aluminium
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**Compatibility**

Compatible with RDC AOB	No
Suitable for DIN Rail	No
Suitable for distribution board	Yes

**Dimensions**

Height	130 mm
Width	90 mm
Depth	97 mm

**Settings**

Adjustment range short-term delayed short-circuit release	24 - 400 A
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**Electrical protection**

Long-time overload protection (ltd): delay (tr)	0.5 s	
	1.5 s	
	2.5 s	
	5 s	
	7.5 s	
	9 s	
	10 s	
	12 s	
	14 s	
	16 s	
	Short-time protection (std): current (lsc)	1.5
		2
2.5		
3		
3.5		
4		
4.5		
5		
5.5		
6		
6.5		
7		
7.5		
8		
8.5		
9		
9.5		
10		

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**Electrical protection**

Short-time protection (std): delay (tsd)	50 ms
	100 ms
	200 ms
	300 ms
	400 ms

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Instantaneous protection (li): dial setting coefficient	3
	3.5
	4
	4.5
	5
	5.5
	6
	6.5
	7
	7.5
	8
	8.5
	9
	9.5
	10
	10.5
	11
	11.5
	12
	12.5
	13
	13.5
	14
	14.5
	15

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**Sustainability**

RoHS conform	Yes
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