



HNS040JR

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

**Technical Features**

**Electric current**

Rated current	40 A
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 230 V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 240 V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 400 V AC IEC 60947-2	40 kA
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 415 V AC IEC 60947-2	40 kA
Breaking capacity on 1-pole for AC 230 V IEC 60947-2	2.50 kA
Breaking capacity on 1-pole for AC 400 V IEC 60947-2	2.50 kA

**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 I <sub>cu</sub> under 690 V AC IEC 60947-2	6 kA
Rated service breaking capacity I <sub>cs</sub> under 220 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity I <sub>cs</sub> under 230 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity I <sub>cs</sub> under 240 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity I <sub>cs</sub> under 380 V AC according to IEC 60947-2	40 kA
Rated service breaking capacity I <sub>cs</sub> under 400 V AC according to IEC 60947-2	40 kA
Rated service breaking capacity I <sub>cs</sub> under 415 V AC according to IEC 60947-2	40 kA
Rated service breaking capacity I <sub>cs</sub> 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 70°C according to IEC 60947	40 A
Rated current 65°C according to IEC 60947	40 A

**Settings**

Ir1 current dial setting	16 A
	18 A
	20 A
	22 A
	25 A
	28 A
	32 A
	34 A
	37 A
	40 A
Adjustment range short-term delayed short-circuit release	21.9 - 400.0 A

**Frequency**

Frequency	50 - 60 Hz
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**Installation, mounting**

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

**Voltage**

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

**Functions**

Trip unit	LSI
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**Power**

Total power loss under IN	1.68 W
Power loss per pole at In	0.56 W

**Endurance**

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

**Equipment**

Number of auxiliary contacts as change-over contact	0
Number of auxiliary contacts as normally closed contact	0
Number of auxiliary contacts as normally open contact	0

**Safety**

Ingress Protection (IP) class	IP4X
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**Use conditions**

Operating temperature	-25 - 70 °C
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**Connection**

Cross-section flexible conductor	6 - 70 mm <sup>2</sup>
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**Cover, door**

Interlockable	Yes
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**Connection**

Cross-section rigid conductor	6 - 95 mm <sup>2</sup>
Connector/plug type	Terminal

**Cable**

Cable material	Copper Aluminium
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**Use conditions**

Degree of pollution according to IEC 60664 / IEC 60947-2	3
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**Dimensions**

Height	130 mm
Width	90 mm
Depth	97 mm

**Controls and indicators**

Motor drive integrated	No
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**Compatibility**

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

**Power supply**

Position power supply	Bidirectional
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**Electrical protection**

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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

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Short-time protection (std): current (lsc)	1.5
	2
	3
	4
	5
	6
	7
	8
	10

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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
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	5
	6
	7
	8
	10
	12
	15

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**Sustainability**

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RoHS conform	Yes
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