



HHS040JR

**Moulded Case Circuit Breaker h3+ P160 LSI 3P3D 40A 25kA FTC**

**Technical Features**

**Electric current**

Rated current	40 A
Rated ultimate short-circuit breaking capacity Icu under 230 V AC IEC 60947-2	35 kA
Rated ultimate short-circuit breaking capacity Icu under 240 V AC IEC 60947-2	35 kA
Rated ultimate short-circuit breaking capacity Icu under 400 V AC IEC 60947-2	25 kA
Rated ultimate short-circuit breaking capacity Icu under 415 V AC IEC 60947-2	25 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 Icu under 690 V AC IEC 60947-2	6 kA
Rated service breaking capacity Ics under 220 V AC according to IEC 60947-2	35 kA
Rated service breaking capacity Ics under 230 V AC according to IEC 60947-2	35 kA
Rated service breaking capacity Ics under 240 V AC according to IEC 60947-2	35 kA
Rated service breaking capacity Ics under 380 V AC according to IEC 60947-2	25 kA
Rated service breaking capacity Ics under 400 V AC according to IEC 60947-2	25 kA
Rated service breaking capacity Ics under 415 V AC according to IEC 60947-2	25 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 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

<b>Voltage</b>	
Rated impulse withstand voltage Uimp	8000 V
Rated insulation voltage Ui	800 V
Rated operational voltage Ue	220 - 690 V
<b>Functions</b>	
Trip unit	LSI
<b>Power</b>	
Total power loss under IN	1.68 W
Power loss per pole at In	0.56 W
<b>Endurance</b>	
Electric endurance in number of cycles	10000
Number of mechanical operations	40000
<b>Equipment</b>	
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
<b>Safety</b>	
Ingress Protection (IP) class	IP4X
<b>Use conditions</b>	
Operating temperature	-25 - 70 °C
<b>Connection</b>	
Cross-section flexible conductor	6 - 70 mm <sup>2</sup>
<b>Cover, door</b>	
Interlockable	Yes
<b>Connection</b>	
Cross-section rigid conductor	6 - 95 mm <sup>2</sup>
Connector/plug type	Terminal
<b>Cable</b>	
Cable material	Copper Aluminium
<b>Use conditions</b>	
Degree of pollution according to IEC 60664 / IEC 60947-2	3
<b>Dimensions</b>	
Height	130 mm
Width	90 mm
Depth	97 mm
<b>Controls and indicators</b>	
Motor drive integrated	No
<b>Compatibility</b>	
Suitable for DIN Rail	No
Compatible with RDC AOB	No
Suitable for distribution board	Yes
<b>Power supply</b>	
Position power supply	Bidirectional

**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 (lsd)	1.5 2 3 4 5 6 7 8 10
Short-time protection (std): delay (tsd)	50 ms 100 ms 200 ms 300 ms 400 ms
Instantaneous protection (ii): dial setting coefficient	3 4 5 6 7 8 10 12 15

**Sustainability**

RoHS conform	Yes
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