

Product Datasheet
HES160JR



HES160JR

Moulded Case Circuit Breaker h3+ P160 LSI 3P3D 160A 70kA FTC

Technical Features

Table with 2 columns: Feature, Value. Rows include Electric current specifications: Rated current (160 A), Rated ultimate short-circuit breaking capacity Icu under 230 V AC IEC 60947-2 (85 kA), Rated ultimate short-circuit breaking capacity Icu under 240 V AC IEC 60947-2 (85 kA), Rated ultimate short-circuit breaking capacity Icu under 400 V AC IEC 60947-2 (70 kA), Rated ultimate short-circuit breaking capacity Icu under 415 V AC IEC 60947-2 (70 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).

Table with 2 columns: Feature, Value. Rows include Architecture specifications: Number of poles (3), Control/operation element (Toggle), Device construction type (Fixed built-in), Neutral position (Without neutral).

Table with 2 columns: Feature, Value. Rows include Electric current specifications: 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 (85 kA), Rated service breaking capacity Ics under 230 V AC according to IEC 60947-2 (85 kA), Rated service breaking capacity Ics under 240 V AC according to IEC 60947-2 (85 kA), Rated service breaking capacity Ics under 380 V AC according to IEC 60947-2 (50 kA), Rated service breaking capacity Ics under 400 V AC according to IEC 60947-2 (50 kA), Rated service breaking capacity Ics under 415 V AC according to IEC 60947-2 (50 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 (160 A), Rated current 15°C according to IEC 60947 (160 A), Rated current 20°C according to IEC 60947 (160 A), Rated current 25°C according to IEC 60947 (160 A), Rated current 30°C according to IEC 60947 (160 A), Rated current at 35°C according to IEC 60947 (160 A), Rated current at 40°C according to IEC 60947 (160 A), Rated current 45°C according to IEC 60947 (160 A), Rated current 50°C according to IEC 60947 (160 A), Rated current 55°C according to IEC 60947 (160 A), Rated current at 60°C according to IEC 60947 (159 A), Rated current 70°C according to IEC 60947 (135 A), Rated current 65°C according to IEC 60947 (145 A).

Table with 2 columns: Feature, Value. Rows include Settings specifications: Ir1 current dial setting (63 A, 70 A, 80 A, 90 A, 100 A, 110 A, 125 A, 135 A, 150 A, 160 A), Adjustment range short-term delayed short-circuit release (86 - 1600 A).

Table with 2 columns: Feature, Value. Rows include Frequency specifications: Frequency (50 - 60 Hz).

Table with 2 columns: Feature, Value. Rows include Installation, mounting specifications: Nominal tightening torque (6 - 6 Nm), Mounting-/Connection Position (Front).

Product Datasheet

HES160JR

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	27 W
Power loss per pole at In	9 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 ²
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Cover, door

Interlockable	Yes
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Connection

Cross-section rigid conductor	6 - 95 mm ²
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

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 (li): dial setting coefficient	3
	4
	5
	6
	7
	8
	9
	10
	11

Sustainability

RoHS conform	Yes
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