



HFUZ5-63HD Smart Circuit

Main Information

Product Series	HFUZ5
Product Name	Smart Circuit Breaker
Product Type	Circuit Breaker
Product Model	HFUZ5-63HD
Pole Number	1P+N (Negative pole on/off, positive pole normally on)
Product Application	Distribution Protection
Rated Current [In]	16A, 32A, 63A
Power Grid Type	DC
Release Type	Electronic and Electromagnetic
Tripping Curve	11In±20%
Breaking Capacity	Ics=7.5kA Icu=10kA

Functions

Functions		Parameters
Protection Functions	Short-circuit protection	√
	Overload protection	√ Setting range 3A~In
	Oversvoltage protection	√ Setting range: 50Vd.c.~80Vd.c., default value 58Vd.c.
	Undersvoltage protection	Undersvoltage protection: Default off Setting range : 35Vd.c.~47Vd.c., default value 43Vd.
	Reverse	√

	connection protection	
Alarms	Undervoltage alarm	√
	Overvoltage alarm	√
	Overcurrent alarm	√
	Closing failure alarm	√
	Opening failure alarm	√
	Controller fault alarm	√
Control Functions	Remote control of closing and opening	√
	Authorization unlock	√
Metering Functions	Current metering	0.5%
	Voltage metering	1%
	Power metering:	1%
	Electricity metering	Class 1
Communication Function	RS485	√
Others	Switch status identification	ON/OFF
	Address identification	√ Address range : 1~118
	switch rated current upload	√
	Lightning surge	An external lightning arrester with a nominal 20kA and Up not exceeding 600V can withstand a common-mode impulse current of 15kA (8/20μs) and a differential-mode

	impulse current of 11kA (8/20μs)
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Supplementary

Information

Rated Operating Voltage [Ue]	60V DC/80V DC
Rated Insulation Voltage [Ui]	500V
Rated Impulse Withstand Voltage [Uimp]	4kV
Contact Position Indication	Available
Installation Method	Busbar plug-in installation
Height	1U
Width	20mm
Depth	180mm
Product Weight	172g
Mechanical Life	10,000
Electrical Life	10,000 (DC 60V)
Wiring Capacity	1.0mm ² ~ 16mm ²
Stripping Length	12mm ~ 18mm
Tightening Torque	1.2N·m

Environment

Compliance Standards	GB/T 14048.2 IEC 60947-2 EN 60947-2 BS EN 60947-2
Product Certification	CCC、CE、CB、UKCA
Pollution Degree	Class2
EMC Severity Level	Class3
Relative Humidity	Annual average: <50%; 30 days (naturally distributed throughout the year): 95%; Occasionally on other days: 85%
Operating Temperature	-40°C ~ +70°C (Reference temperature 40°C, derating required for non-rated temperatures)
Storage Environment Temperature	-40°C ~ 70°C
Operating Altitude	Not exceeding 2000m

Packaging Unit

Packaging Unit Type (by tray)	Blister tray
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Packaging Quantity	12
Packaging Height	53mm
Packaging Width	260mm
Packaging Length	345mm
Packaging Weight	2.1kg
Packaging Unit Type (by box)	
Packaging Quantity	48
Packaging Height	245mm
Packaging Width	275mm
Packaging Length	360mm
Packaging Weight	9.2kg

Sustainability

EU RoHS Directive	Compliant
Mercury-free	Compliant
China RoHS Management Measures	Compliant
Products outside the scope of China RoHS control	Compliant
RoHS Exemption Information	Yes

Contract Warranty

Warranty Period	18 months
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