



HFUZ5-125HD Smart Circuit

Main Information

Product Series	HFUZ5
Product Name	Smart Circuit Breaker
Product Type	Circuit Breaker
Product Model	HFUZ5-125HD
Pole Number	1P+N (Negative pole on/off, positive pole normally on)
Product Application	Distribution Protection
Rated Current [In]	80A、 100A、 125A
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
	Overvoltage protection	√ Setting range: 50Vd.c.~80Vd.c.,default value58Vd.c.
	Undervoltage protection	Undervoltage protection: Default off Setting range : 35Vd.c.~47Vd.c., default

		value 43Vd.
	Reverse connection protection	√
报警	Undervoltage alarm	√
	Overvoltage alarm	√
	Overcurrent alarm	√
	Closing failure alarm	√
	Opening failure alarm	√
	Reverse connection alarm	√
	Controller fault alarm	√
Contr ol Functions	Remote control of closing and opening	√
	Authorization unlock	√
Meteri ng Functions	Current metering	0.5%
	Voltage metering	1%
	Power metering:	1%
	Electricity metering	Class 1
Comm unicati on Function	RS485	√
Other s	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)

Supplementary

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	30mm
Depth	180mm
Product Weight	218 g
Mechanical Life	10000
Electrical Life	10000 (DC 60V)
Wiring Capacity	1.0mm ² ~ 35mm ²
Stripping Length	18mm
Tightening Torque	2.0N·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	-40°C ~ 70°C
Temperature	
Operating Altitude	Not exceeding 2000m

Packaging Unit

Packaging Unit Type (by tray)	Blister tray
Packaging Quantity	8
Packaging Height	53mm
Packaging Width	260mm
Packaging Length	345mm
Packaging Weight	1.8kg
Packaging Unit Type (by box)	
Packaging Quantity	36
Packaging Height	245mm
Packaging Width	275mm
Packaging Length	360mm
Packaging Weight	8kg

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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