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iB700 Smart Miniature Circuit Breakers

iB700 series smart miniature circuit breakers are newly developed smart electric product which is with functions of overcurrent protection, short-time delay protection, short-circuit instantaneous protection, under-voltage and over-voltage protection, phase-failure protection (three phase) and auto-reclosing.



Standard

- IEC 60898-1

Application

- Suitable for single phase, three phase three line and three phase four line low voltage power distribution system which neutral point grounding directly (TT), to protect the circuits and electric equipment against overcurrent, short-circuit, under-voltage and over-voltage, over temperature and phase failure (three phase).
- The smart switches can be operated by manual in local, or remotely if a smart gateway is applied.

Functions

Functions		Settings
Protection	Overcurrent protection	
	Short circuit protection	
	Auto-reclosing	
	Phase failure protection	Available for iB713 / iB716
	Over-voltage protection	275 V / 480 V
	Under-voltage protection	160 V / 280 V
	Over temperature protection ¹⁾	80 °C (optional function)
	Over power protection	
Detection and measurement	Phase imbalance protection	≤ 5%, available for iB713 / iB716
	Voltage	Real-time monitoring
	Current	
	Temperature	
	Power	
Power consumption measurement		
Communication port	RS485 (MODBUS)	Standard configuration
Control		Time open or close.
		Function can be closed.

¹⁾ Over temperature function is optional, additional temperature detection cables PT100 is available depending on order.

Technical specifications

				
Basic data	iB711	iB715	iB713	iB716
Number of poles	1P	1P+N	3P	3P+N
Standard	IEC 60898-1			
Frame size	A 63			
Tripping characteristics	C characteristic (5-10) I _n D characteristic (10-14) I _n			
Rated current I _n	A 6, 10, 16, 20, 25, 32, 40, 50, 63			
Rated voltage U _e	V AC 230	230	400	400
Rated frequency f	Hz 50			
Rated short circuit breaking capacity I _{cn}	kA 10			
Communication port	RS485			
Upgrade mode	RS485			
Measurement accuracy				
Voltage	1%			
Current	1%			
Power	1%			
Power consumption	1%			
Protection parameter				
Over temperature action	°C 80			
Over-voltage action	V 275			
Under-voltage action	V 165			
Overcurrent protection	1 – I _n adjustable			
Phase imbalance	-	-	≤ 5%	≤ 5%
Short circuit protection	yes	Yes	Yes	Yes
Working and installation conditions				
Altitude	m ≤ 2000			
Ambient temperature	°C -5 ... +40			
Environmental	No explosion danger, no conductive dust, no corrosion of metal and damage to insulation, no significant shock and impact			
Relative humidity	50% at +40 °C. Higher relative humidity is available at lower temperatures.			
Storage temperature	°C -40 ... +80			
Pollution level	II			
Installation category	II			
Dimensions				
L	mm 120.5	120.5	120.5	120.5
W	mm 36	54	72	90
H	mm 77.6	77.6	77.6	77.6

Trip characteristics

Thermal release

Tripping characteristics	Test current	Initial condition	Limit of tripping or non-tripping time	Result to be obtained
C	1.13 I _n	Cold	≤ 1 h	No tripping
	1.45 I _n	Immediately following test 1.13 I _n	< 1 h	Tripping
D	1.13 I _n	Cold	≤ 1 h	No tripping
	1.45 I _n	Immediately following test 1.13 I _n	< 1 h	Tripping

Electromagnetic release

Tripping characteristics	Test current	Initial condition	Limit of tripping or non-tripping time	Result to be obtained
C	5 I _n	Cold	≤ 0.1 s	No tripping
	10 I _n		< 0.1 s	Tripping
D	10 I _n	Cold	≤ 0.1 s	No tripping
	14 I _n		< 0.1 s	Tripping

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