DIRECTIONAL SHORT-CIRCUIT AND DIRECTIONAL EARTH FAULT INDICATOR

ComPass







HORSTMANN – Advance by Technology

ComPass

The predominant topology for MV distribution networks in Europe is a radial (open ring) configuration. In the event of a short-circuit, faults can be located using standard faulted circuit indicators without directional indication.

However, if there is decentralised power generation, e.g. by powerful wind farms, the faulted section will be fed potentially from two directions, i.e. the substation and the decentralised power generator. In such a case directional short-circuit/earth fault indicators are required for fault location.



Short description

ComPass B

- I Directional short-circuit detection und directional earth fault detection for all networks/earth-neutral system
- I Current, voltage and load flow monitoring
- I Multilingual OLED-display
- I Remote signal via RS 485/MODBUS Interface

		ComPass B
Functionality		
	Earth fault indication	
	Short-circuit indication	<u> </u>
	Directional indication	Directional short-circuit indicator Directional earth fault indicator
Specialities		
	3-phase current monitoring	•
	Residual current/	
	voltage monitoring	
Trin ourrent/Deeper	Load flow direction monitoring	
Trip current/Respons Short-circuit		50 A-2000 A
Short-circuit	Trip current Response time	40 ms < t < 60 s
Earth fault	Trip current (solidly grounded/low impedance	40 1115 < 1 < 00 5
Earth lauit	network)	20 A-1000 A
	Trip current (isolated/compensated network)	5 A-200 A
	Response time	40 ms < t < 60 s
Display		
	LED	
	OLED-Display (multilingual)	
Signal inputs		
	Short-circuit detection by 3 single-phase current transformers	
	Earth fault detection by 3 single-phase current transformers	
	Earth fault detection by current transformers	optional
	Voltage interface	
Configuration		
	Menu navigation/MODBUS interface	
Remote signal		
	Potential-free relay contact	4
	RS485/MODBUS interface	•
Reset		
	Automatic time reset	1 min-24 h
	Via external contact	•
	Frontal	via rocker switch
Power supply		
External supply		24-230 V AC/DC
Internal supply	Lithium battery	3.6 V
	Operating time	20 years (only backup)
	Total flashing time LED	> 1000 h
	Activation of the display	1000
Housing		
Material	Glass fibre reinforced polycarbonat	•
Dimension	Width x height x depth	96 x 48 x 96 mm
Mounting	Plug-in housing	•
Characteristics		
	Operating temperature	-30° C to +75° C

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