PB105112.eps

PB108167.eps

PB111801-21_r.eps

Micrologic 5 / 6 operating assistance functions			Type		Display	
			A	E	Micrologic LCD	FDM display
Operating assistance						
Personalised alarms						
Settings	Up to 10 alarms assigned to all A and E measurements (2)		■	■	-	-
	Phase lead/lag, four quadrants, phase sequence, display priority selection (2)		-	■	-	-
Display	Alarms / tripping		■	■	- / ■	■ / ■
Remote indications	Activation of two dedicated contacts on SDx module		■	■	-	-
Time-stamped histories (ms)						
Trips (last 17)	Cause of tripping	Ir, Isd, Ii (Micrologic 5, 6)	■	■	-	■
		Ig (Micrologic 6)	■	■	-	■
		Phase fault	■	■	-	■
		Interrupted current value	■	■	-	■
Alarms (last 10)			■	■	-	■
Operating events (last 10)	Event types	Modification of protection setting by dial	-	■	-	■
		Opening of keypad lock	-	■	-	■
		Test via keypad	-	■	-	■
		Test via external tool	-	■	-	■
		Time setting (date and time)	-	■	-	■
		Reset for maximeter/minimeter and energy meter	■	■	-	■
Time stamping (date and time, text, status)			■	■	-	■
Time-stamped event tables						
Protection settings	Setting modified (value displayed)	Ir tr Isd tsd Ii Ig tg (2)	■	■	-	-
	Time-stamping	Date and time of modification (2)	■	■	-	-
	Previous value	Value before modification (2)	■	■	-	-
Min/Max	Values monitored	I1 I2 I3 IN	■	■	-	■
		U12 U23 U31 f	-	■	-	■
	Time-stamping of each value	Date and time of min/max record	■	■	-	■
	Current min/max value	Min/max value	■	■	-	■
Maintenance indicators						
Counter	Mechanical cycles (1)	Assignable to an alarm	■	■	-	■
	Electrical cycles (1)	Assignable to an alarm	■	■	-	■
	Trips	One per type of trip (2)	■	■	-	-
	Alarms	One for each type of alarm (2)	■	■	-	-
	Hours	Total operating time (hours) (2)	■	■	-	-
Indicator	Contact wear	%	■	■	-	■
Load profile	Hours at different load levels	% of hours in four current ranges: 0-49 % In, 50-79 % In, 80-89 % In and ≥ 90 % In	■	■	-	■

(1) The BSCM module (page A-33) is required for these functions.
(2) Available via the communication system only.

Additional technical characteristics

Contact wear

Each time Compact NSX opens, the Micrologic 5 / 6 trip unit measures the interrupted current and increments the contact-wear indicator as a function of the interrupted current, according to test results stored in memory. Breaking under normal load conditions results in a very slight increment. The indicator value may be read on the FDM121 display. It provides an estimation of contact wear calculated on the basis of the cumulative forces affecting the circuit breaker. When the indicator reaches 80 %, it is advised to replace the circuit breaker to ensure the availability of the protected equipment.

Circuit breaker load profile

Micrologic 5 / 6 calculates the load profile of the circuit breaker protecting a load circuit. The profile indicates the percentage of the total operating time at four current levels (% of breaker In):

- *0 to 49 % In*
- *50 to 79 % In*
- *80 to 89 % In*
- *≥ 90 % In.*

This information can be used to optimise use of the protected equipment or to plan ahead for extensions.