Overcurrent Protection SIPROTEC 7SJ602

Product description Variants Order No. 1 2 3 4 5 6 7 8 9 10 11 12 **7 S J 6 0 2** \square - \square \square \square \square -Overcurrent, directional ground/earth fault detection ппп and motor protection relay Measuring inputs (4 x I), default settings Housing 1/6 19" $I_{\rm N}$ = 1A ¹⁾, 15th position only with A $I_{\rm N}$ = 5A ¹⁾, 15th position only with A 5 Protection SIPROTEC 4 Measuring inputs (1 x U, 3 x I), default settings $I_{ph} = 1A^{1}$, $I_{e} = sensitive (I_{EE} = 0,003 to 1,5A)$ 15th position only with B and J $I_{\rm ph}$ = 5A ¹⁾, $I_{\rm e}$ = sensitive ($I_{\rm EE}$ = 0,015 to 7,5A) 15th position only with B and J Auxiliary voltage DC 24V, 48 V binary input threshold DC 19 V DC 60 V, 110V, binary input threshold DC19 V $^{2)}$ 4 DC 110V - 250V, AC 115V, AC 230V, binary input threshold DC 88 $V^{2)}$ Construction Surface-mounting housing terminals on top and bottom В Flush-mounting housing, screw-type terminals Ε Region-specific default- and language settings Region World, 50/60 Hz, ANSI/IEC-characteristics, B language: English, German, French, Spanish, Russian System port (on bottom of device) No system port IEC 60870-5-103, electric RS232 IEC 60870-5-103, electrical RS485 2 IEC 60870-5-103, optical 820 nm, ST-connector 3 Thermo-box, electrical RS4853) Further protocols see supplement L PROFIBUS DP slave, electrical RS485 В PROFIBUS DP slave, optical 820 nm, double ring, ST-connector Modbus, electrical RS485 D Modbus, optical 820 nm, ST-connector Command (without process check back signal) Without command 0 With command Measuring / fault recording Oscillographic fault recording Oscillographic fault recording, slave pointer, mean values, min/max values 3

(continued on next page)

- 1) Rated current 1/5 A can be selected by means of jumpers.
- 2) Transition between the two auxiliary voltage ranges can be selected by means of jumpers
- 3) Thermo-box 7XV5662-*AD10 (at accessories)

Product description	Variants	Order No.	
Overcurrent, directional ground/	earth fault Detection	and Motor protection relay 7 S J 6 0 2	13 14 15 16
(continued from previous page)	ANSI-No.		
Basic version	·		F A 1)
(contained in all options)	50/51	Time-overcurrent protection TOC phase $I>$, $I>>$, $I>>>$, I_p reverse interlocking	
	50N/51N	Ground/earth-fault protection TOC ground/earth $I_E >$, $I_E >>$, I_{Ep}	
	49	Overload protection	
	74TC	Trip circuit supervision	
	50BF	Circuit breaker failure protection 3)	
		Cold load pickup	
	46	Negative sequence / unbalanced load protection	
•	67Ns	Directional sensitive ground/earth-fault detection, I_{EE} >, I_{EE} >>, I_{Ep}	I I
	64	Displacement voltage	
•	50Ns/51Ns	Sensitive ground/earth-fault detection, $I_{\rm EE}$ >, $I_{\rm EE}$ >>, $I_{\rm Ep}$ $^{3)}$ Voltage and power measuring	F J 2)
■ Motor	48	Starting time supervision	I I 10 10 10 10 10 10 10
	37	Undercurrent / loss of load monitoring	
	66/68	Restart inhibit	
■ Motor	67Ns	Directional sensitive ground/earth-fault detection, I_{EE} >, I_{EE} >>, I_{Ep}	—
	64	Displacement voltage	
	48	Starting time supervision	1 1 1
	37	Undercurrent / loss of load monitoring	1 1 1
	66/68	Restart inhibit	
■ Motor	50Ns/51Ns	Sensitive ground/earth-fault detection, $I_{\rm EE}$ >, $I_{\rm EE}$ >>, $I_{\rm Ep}$ $^{3)}$	— H J 2)
	48	Starting time supervision	
	37	Undercurrent / loss of load monitoring	
	66/68	Restart inhibit	
ARC		Without autoreclose	0
		With autoreclose	1

■ Basic version included

¹⁾ Only with position 7 = 1 or 5

²⁾ Only with position 7 = 2 or 6

^{3) 50}Ns/51Ns alternatively to 50N/51N