Overcurrent Protection SIPROTEC 7SJ61

	Product description	Variants	Order No.		
	Time-overcurrent, overload and me	otor protection relay	1 2 3 4 5 6 7 7 S J 6 1 □ □ - [8 9 10 11 12	13 14 15 16
Protection SIPROTEC 4	with control and RTD ³⁾ interface	Housing, binary inputs and outputs Housing 1/3 19",4L-Text-Disp., 3 BI, 4 BO, 1 Life Housing 1/3 19",4L-Text-Disp., 8 BI, 8 BO, 1 Life Housing 1/3 19",4L-Text-Disp., 11 BI, 6 BO, 1 Life Housing 1/3 19",4L-Text-Disp., 11 BI, 6 BO, 1 Life Housing 1/2 19", GraphDisp., 8 BI, 8 BO, 1 Life Housing 1/2 19", GraphDisp., 11 BI, 6 BO, 1 Life Housing 1/2 19", GraphDisp., 11 BI, 6 BO, 1 Life Housing 1/2 19", GraphDisp., 11 BI, 6 BO, 1 Life Housing 1/2 19", GraphDisp., 11 BI, 6 BO, 1 Life Housing 1/2 19", GraphDisp., 11 BI, 6 BO, 1 Life Housing 1/2 19", GraphDisp., 11 BI, 6 BO, 1 Life Housing 1/2 19", GraphDisp., 11 BI, 6 BO, 1 Life Housing 1/2 19", GraphDisp., 11 BI, 6 BO, 1 Life Housing 1/2 19", GraphDisp., 11 BI, 6 BO, 1 Life Jph = 1 A ¹ , Ie = 1 A ¹ (min. = 0,05 A) 15th position only with: A	e cont. 1 fe cont. 2 e cont. 3		
		$I_{ph} = 1 A^{1}$, $I_e = \text{sensitive} (\text{min.} = 0,001 \text{ A})$ 15th position only with: B	2		
		$I_{ph} = 5 A^{ij}, I_e = 5 A^{ij}$ (min. = 0,25 A) 15th position only with: A	5		
		$I_{ph} = 5 A^{ij}, I_e = \text{sensitive (min. = 0,001 A)}$ 15th position only with: B	6		
		$I_{ph} = 5 A^{-1}$, $I_e = 1 A$ (min. = 0,05 A) 15th position only with: A	7		
		Auxiliary voltage DC 24 V to 48 V, binary input threshold DC 19 V DC 60 V to 125 V ²⁾ , binary input threshold DC 1 DC 110 to 250 V ²⁾ ; AC 115 to 230 V, input thres DC 110 to 250 V ²⁾ ; AC 115 to 230 V, input thres	9 V ⁴⁾ hold DC 88 V ⁴⁾	1 2 4 5 6	
		<u>Construction</u> Surface-mounting housing, terminals on top and Flush-mounting housing, plug-in terminal (2/3 pir Flush-mounting housing, screw-type terminal (direct-connection/ring-type cable lugs)		B D E	
		Region-specific default settings/ function version Region DE, 50 Hz, IEC-characteristics, language German (language changeable)	<u>is and language settings</u>	 A 	
		Region World, 50/60 Hz, ANSI/IEC-characteristi language English (language changeable)	CS,	B 	
		Region US, 60 Hz, ANSI-characteristics, language US-English (language changeable)		c 	
		Region FR, ANSI/IEC-characteristics, language French (language changeable)		Ď 	
		Region World, ANSI/IEC-characteristics, language Spanish (language changeable)		Ē	
		Region IT, ANSI/IEC-characteristics, language Italian (language changeable)		F 	
		Region RU, ANSI/IEC-characteristics, language Russian (language changeable)		G	(continued on next page)

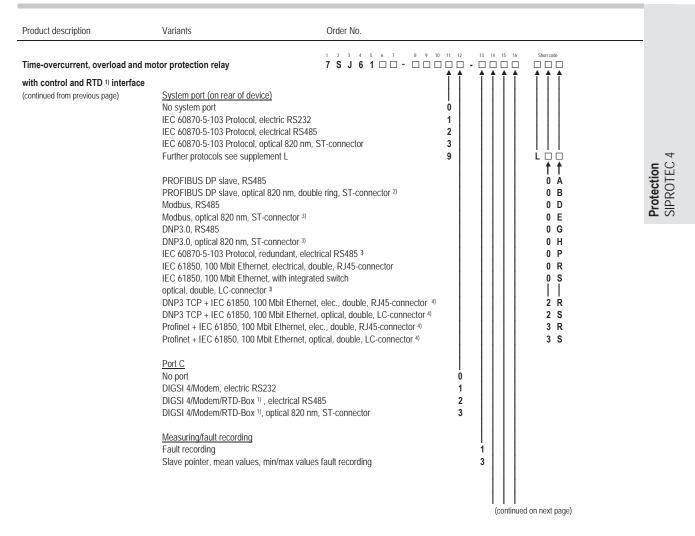
1) Rated current 1/ 5 A can be selected by means of jumpers.

2) Transition between the two auxiliary voltage ranges can be selected by means of jumpers.

3) RTD (resistance temperature detector) Box, 7XV5662-*AD10 (at accessories communication)

 4) The thresholds of each binary input can be set via bridges. Settings deviant from the standard can be ordered via Z-variants Further information can be found in the MLFB sheet in the sharepoint (Intranet).

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1) RTD (resistance temperature detector) Box, 7XV5662-*AD10 (at accessories communication)

2) If position 9=B (surface-mounting housing, 2-tier terminals on top/bottom), please order the relay with RS485 interface and separate fibre-optic converter

3) Not available with position 9=B

4) Starting from FW V4.90

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	Product description	Variants	Order No.			
	Time-overcurrent, overload and motor protection relay 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Time-overcurrent, overload and motor protection relay 7 S J 6 1 - <t< th=""></t<>					
	with control and RTD ¹⁾ interface					
Protection SIPROTEC 4	(continued from previous page) Protection function packages Basic version	ANSI-No.	Control			
	(contained in all options)	50/51 50N/51N 50N/51N 50/50N	Time-overcurrent protection TOC phase $I>$, $I>>$, $I>>>$, I_p F F A Earth protection TOC earth $I_E>$, $I_E>>$, $I_E>>$, I_Ep G round-fault protection via insensitive IEE-function: $I_{EE} >$, $I_{EE} >>$, I_{EEP}^{2} F F F A (index quantities derived from current):			
		49 37 46	Additional time overcurrent protection stages I >>>> Overload protection (with 2 time constants) Undercurrent monitoring Negative sequence protection			
		50BF 74TC	Circuit-breaker failure protection Trip circuit supervision 4 setting groups; cold load pick-up Inrush blocking			
		86	Lock out			
-	■ IEF		Intermittent earth-fault P A			
•	•	50Ns/51Ns 87N	Sensitive earth-fault detection (non-directional) F B ³⁾ High-impedance restricted earth fault			
-	IEF	50Ns/51Ns 87N	Sensitive earth-fault detection (non-directional) P B ³⁾ High-impedance restricted earth fault Intermittent earth-fault			
•	 Motor IEF 	50Ns/51Ns 87N	Sensitive earth-fault detection (non-directional) R B ³⁾ High-impedance restricted earth fault Intermittent earth-fault			
-	Mator	48/14 66/86 51M	Starting time supervision, locked rotor Restart inhibit Motor load-jam protection , motor statistics Sensitive earth-fault detection (non-directional) H B ³			
	Motor	50Ns/51Ns 87N 48/14 66/86 51M	Sensitive earth-fault detection (non-directional) H B ³⁾ High-impedance restricted earth fault Starting time supervision, locked rotor Restart inhibit Motor load-jam protection , motor statistics			
-	 Motor 	48/14 66/86 51M	Starting time supervision, locked rotor H A Restart inhibit Motor load-jam protection , motor statistics			
	ARC	79	without autoreclose 0 with autoreclose 1			

Basic version included
 IEF= Intermittent earth-fault

1) RTD (resistance temperature detector) Box 7XV5662-*AD10 (at accessories communication)

2) Only with position 7 = 1, 5, 7 (insensitive earth current input)
3) Only with position 7 = 2, 6 (sensitive earth current input)