Product description	Variants Order No.		
Digital differential protection relay for transformers, generators, Motors, small busbars and short lines	7 U T 6 Housing, binary inputs and outputs, measuring transducer Housing 1/2 19", 5 BI, 8 BO, 1 Life contact, 12x <i>I</i> , 1x <i>I</i> _{EE} , 4x <i>U</i>	3	15 16 Short code
Backlit, alphanumeric display with four lines, 14 programmable LEDs, navigation buttons, function buttons, number block.	Current transformer: IN 1 A 5 A Auxiliary voltage (power supply, signaling voltage) DC 24 V to 48 V, trigger level 19 V DC 60 V to 125 V, trigger level 19 V DC 110 V to 250 V, AC 115/230 V, trigger level 88 V DC 110 V to 250 V, AC 115/230 V, trigger level 88 V DC 110 V to 250 V, AC 115/230 V, trigger level 176 V Construction Surface-mounting housing, terminals on top and bottom Flush-mounting housing, plug-in terminal (2/3 pin connector) Flush-mounting housing, screw-type terminal (direct connection/ring-type cable lugs) Region-specific default settings/ function versions and language settings Region world, IEC/ANSI, language German (language changeable)¹) Region world, IEC/ANSI, language English (language changeable)¹) Region world, IEC/ANSI language US-english (language changeable)¹) Region world, IEC/ANSI language French (language changeable)¹) Region world, IEC/ANSI language Spanish (language changeable)¹) Region world, IEC/ANSI language	1 5	L 0 A B D E G H R S
	Only Port C (Service interface) DIGSI 4 / Modem/Browser, electrical RS232 DIGSI 4 / Modem/ Browser/Thermo-box, electrical RS485 Port C and Port D (Service interface) DIGSI 4 / Modem/Browser, electrical RS232 DIGSI 4 / Modem/ Browser/Thermo-box, electrical RS485	1 1 2 9 9	M 1 🗆
	Port D (Additional interface) Thermo-box, optical 820 nm, ST-connector Thermo-box, electrical RS485		A F

 ⁵⁰Hz/60Hz resp. 16,7 Hz as presetting if MLFB position 14 = C or D (rail protecton option)
 60Hz/50Hz resp. 16,7 Hz as presetting if MLFB position 14 = C or D (rail protecton option)

Transformer Protection SIPROTEC 7UT613

Variants Order No Product description Digital differential protection relay for transformers, generators, motors, small busbars Measuring and monitoring functions and short lines Basic measured values, fault recording Backlit, alphanumeric display with Extended measured values, min./max., mean values 2 four lines, 14 programmable LEDs, Extended measured values, min./max., mean values navigation buttons, function buttons, transformer monitoring functions (connection to thermo-box/hot spot, overload factor $)^{1)}$ number block. (continued from previous page) Differential protection/Backup function 87 T G M L Differential protection transformer, autotransformer, generator, motor, Small busbur, short line 49 Overload protection for one winding 86 Lockout function Time-overcurrent protection TOC phase: I>, I>>, Ip, 50/51 (inrush stabilization) 50N/51N Overcurrent protection TOC 3I₀: 3I₀>, 3I₀>>, 3I₀p (inrush stabilization) 50G/51G Overcurrent protection TOC ground: IE>, IE>>, IEp (inrush stabilization) Backup protection + additional current functions B 87N Restricted earth fault low impedance 87N TOC single-phase for restricted earth fault high impedance (87 N without external resistor / varistor) 2) 64 or sensitive Overcurrent protection / tank protection 46 Load unbalance protection 50BF Breaker failure protection 74TC Trip circuit supervision Rail protection 16,7 Hz 3) Differential protection+ backup function + additional current functions available protection objects: transformer (1-/3-phase), motor, generator Rail protection 16,7 Hz 3) D Differential protection+ backup function + additional current functions available protection objects: generator, motor, transformer (1-/3-phase), busbar (1-/3-phase) Additional voltage functions Voltage measurement and overexcitation protection В Voltage measurement and overexcitation protection С + Over- and Undervoltage protection + Frequence protection + Power directional protection + Fuse failure monitor Additional functions (general)

Flexible protection functions

- I-Measuring location/ side
- Current supplementary CT
- Voltage (Vph-ph, Vph-E, V0, V1, V2, Vn)
- Active Power forward
- Active Power reverse
- Power Factor
- Frequency
- 1) Monitoring functions only available with external temperature measuring unit 7XV5662-*AD10 (see section Accessories communication).

without

Flexible protection functions

Multiple protection functions (50,51 50 N/G, 51 N/G, 87 N, 50 BF, 49) 4)

Multiple protection functions and flexible protection functions

- Varistor and resistor (see section Accessories).
- 3) Only with MLFB position 16=1 or 3
- 4) Only if available already through MLFB position 14

Protection SIPROTEC 4