

# Measuring devices

## 7KT1 3 Multicounters

### Technical specifications

Data according to DIN EN 61010-1, DIN EN 62053-21, -23, -31  
**Multicounters without communication interface**  
**Multicounters with RS 485 interface (Modbus RTU, for LAN servers)**  
**Multicounters with PROFIBUS DP V0 interface**

7KT1 310	7KT1 311	7KT1 312
7KT1 340	7KT1 341	7KT1 342
7KT1 350	7KT1 351	7KT1 352

Supply			
• Rated control supply voltage $U_c$	V AC	230	
• Operating range	$\times U_c$	0.8 ... 1.2	
• Rated frequency	Hz	50	
• Frequency range	Hz	45 ... 65	
• Rated power dissipation $P_V$	VA	$\leq 10$	
Overload capability			
• Voltage	continuous: Phase/Phase	V	480
	1 second: Phase/Phase	V	800
	continuous: Phase/N	V	276
	1 second: Phase/N	V	460
• Current	Continuous	A	76      6
	0.5 s	A	--      110
	10 ms	A	2000    --
Measuring inputs			
• Connection type		direct	Transformer /5 A
• Voltage $U_e$	Phase/Phase	V	400
	Phase/N	V	230
• Operating range voltage	Phase/Phase	V	87 ... 480
	Phase/N	V	50 ... 276
• Current $I_e$		A	63      5
• Operating range current		A	0.3 ... 63      0.012 ... 5
• Transformer current	primary current of transformer smallest input step	A	--      5 ... 5000
		A	--      5
• Frequency		Hz	50
• Operating range frequency		Hz	45 ... 65
Display			
• Connection errors	inverted phases		Err
• Voltage: 3 displays, 3-digit	Delta L1–L2, L2–L3, L3–L1	V AC	87 ... 480
	Star L1/N – L2/N – L3/N	V AC	50 ... 276
	Voltage > 480/276 V		H H H
	Voltage < 87/50 V		L L L
• Current:	L1 – L2 – L3 – neutral conductor		0.3 ... 76 A      0.1 A ... 1.2 kA or 0.1 ... 6 A $\times$ transformer conversion ratio
	for current > 76 or (1.2 or 6 A) $\times$ transformer conversion ratio		H H H
	for current < 0.3 A or 0.012 A $\times$ transformer conversion ratio		O O O
• Frequency 1 display, 3-digit	L	Hz	45.0 ... 65.0
• Active power: 3 displays, 3-digit	L1 – L2 – L3, display with floating decimal point	W, kW or MW	0 ... 999
• Active power: 3 display, 3-digit, 3 of 7 digits + display import or export	L, display with floating decimal point	W, kW or MW	0 ... 999
• Reactive power: 1 display, 3 of 7 digits + capacitive or inductive load	L, display with floating decimal point	var, kvar or Mvar	0 ... 999
• Apparent power: 3 displays, 3-digit	L1 – L2 – L3; L display with floating decimal point	VA, kVA or MV	0 ... 999
• Apparent power: 5 displays, 3-digit, adjustable	L, display with floating decimal point	VA, kVA or MV	0 ... 999
• Active energy: 1 display, 7-digit display import or export, + display rate 1 or 2	L, display with floating decimal point	Wh, kWh or MW	0 ... 9999999 or 0 ... 999
• Reactive energy: 1 indicator, 7-digit + capacitive or inductive load	L, display with floating decimal point	varh, kvarh or Mvarh	0 ... 9999999 or 0 ... 999
• Apparent energy: 5 displays, 3-digit, adjustable rate	L, display with floating decimal point	VAh, kVAh or MVh	0 ... 9999999 or 0 ... 999