

## Technical specifications

Data according to DIN 43751-1 and DIN 43751-2		7KT1 110	7KT1 120
<b>Rated control supply voltage <math>U_c</math></b>	V AC	230	
<b>Operating range</b>	$\times U_c$	0.9 ... 1.15	
<b>Rated frequency</b>	Hz	45 ... 65	
<b>Rated operational power <math>P_s</math></b>	VA	< 2	
<b>Measuring range</b>			
• Voltage	direct measurement	V AC	12 ... 600
• Current	direct measurement	A AC	--
	transformer measurement	A AC	--
			0.4 ... 20 direct 0.5 ... 1000/5
<b>Display</b>			
• Voltage	voltage > 600 V		3 LEDs red; height 10 mm
	voltage < 12 V	H H H	--
		-- -- --	--
• Current	direct current > 20 A	--	H H H
	current transformer > 5 A	--	H H H
	direct current < 0.4 A	--	-- -- --
	current transformer < 0.1 A	--	-- -- --
<b>Measuring cycle</b>		/s	4 times
<b>Measuring accuracy</b>	at 23 °C	%	$\pm 0.5 \pm 1$ digit
<b>Temperature influence</b>		%/°C	$\pm 0.03$
<b>Overload capability</b>			
• Voltage	continuous	V	720
	short-time for 1 s	V	780
• Current	continuous, direct	A	--
	continuous transformer	A	22 5.5
	short-time for 1 s, direct	A	200
	short-time for 1 s, transformer	A	50
<b>Electrical isolation</b>			
• Clearances		mm	$\geq 3$
• Creepage distances in the device		mm	$\geq 4.3$
• Creepage distances on the printed board	printed boards not installed	mm	$\geq 3.0$
<b>Test voltage</b>	50 Hz, 1 min	kV	2.2
<b>Terminals</b>	+/- screw (Pozidriv)		1
<b>Conductor cross-sections</b>			
	rigid, max.	mm <sup>2</sup>	1 x 6/2 x 4
	flexible with sleeve, min.	mm <sup>2</sup>	0.75
<b>Permissible ambient temperature</b>		°C	-10 ... +55
<b>Degree of protection</b>			IP20