

Refer to page 3 for assigning individual measurements to the regulations

Measured Quantity	Measuring Range/ Nominal Range of Use	Resolution	Nominal Voltage $U_N$	Open-Circuit Voltage $U_0$	Nominal Current $I_N$	Short-Circuit Current $I_K$	Internal Resistance $R_I$	Reference Resistance $R_{REF}$	Measuring Uncertainty <sup>B)</sup>	Intrinsic Uncertainty <sup>B)</sup>	Overload Capacity	
											Value	Time
Device Protective Conductor Resistance $R_{PE}$	0.000 ... 2.100 $\Omega$	1 m $\Omega$	—	4.5 ... 9 V DC	—	> 200 mA DC	—	—	$\pm(5\% \text{ rdg.} + 10 \text{ digits})$ > 10 d	$\pm(2.5\% \text{ rdg.} + 5 \text{ digits})$ > 10 digits	253 V	cont.
	2.11 ... 31.00 $\Omega$	10 m $\Omega$									no protection <sup>5)</sup>	
	0.000 ... 2.100 $\Omega$	1 m $\Omega$	< 6 V AC	—	> 10 A AC <sup>4)</sup> > 5 s	—	—					
Insulation Resistance $R_{ISO}$	0.050 ... 1.500 M $\Omega$	1 k $\Omega$	50 ... 500 V DC	$1.0 \cdot U_N \dots 1.5 \cdot U_N$	> 1 mA	< 10 mA	—	—	$\pm(5\% \text{ rdg.} + 10 \text{ digits})$	$\pm(2.5\% \text{ rdg.} + 5 \text{ digits})$ > 10 digits	253 V	cont.
	1.01 ... 10.00 M $\Omega$	10 k $\Omega$							$\pm(10\% \text{ rdg.} + 10 \text{ digits})$	$\pm(10\% \text{ rdg.} + 10 \text{ digits})$		
	10.1 ... 310.0 M $\Omega$	100 k $\Omega$										
Equivalent Leakage Current $I_{EL}$	0.00 ... 21.00 mA	10 $\mu$ A	—	230 V $\sim$ – 20/ +10 %	—	< 3.5 mA	> 72 k $\Omega$	2 k $\Omega$	$\pm(5\% \text{ rdg.} + 10 \text{ digits})$	$\pm(2.5\% \text{ rdg.} + 5 \text{ digits})$ > 10 digits	253 V	cont.
	20.1 ... 120.0 mA	100 $\mu$ A										
Contact Current $I_{probe}$	0 ... 3.500 mA	1 $\mu$ A	—	—	—	—	2 k $\Omega$	—	$\pm(5\% \text{ rdg.} + 10 \text{ digits})$	$\pm(2.5\% \text{ rdg.} + 5 \text{ digits})$ > 10 digits	253 V	cont. <sub>2)</sub>
Residual Current $I_{PI}$ between L and N	0.000 ... 3.100 mA $\sim$ 3.00 ... 31.00 mA $\sim$	1 $\mu$ A 10 $\mu$ A	—	—	—	—	—	—	$\pm(10\% \text{ rdg.} + 10 \text{ digits})$ > 10 digits	$\pm(5\% \text{ rdg.} + 5 \text{ digits})$ > 10 digits	1)	1)
Equivalent Device and/or Equivalent Patient Leakage Current $I_{EDL}$ and/or $I_{EPL}$	0.0 ... 310.0 $\mu$ A	0.1 $\mu$ A	—	230 V $\sim$ – 20/ +10 %	—	< 3.5 mA	> 72 k $\Omega$	1 k $\Omega$ $\pm 50 \Omega$	$\pm(5\% \text{ rdg.} + 10 \text{ digits})$	$\pm(2.5\% \text{ rdg.} + 5 \text{ digits})$ > 10 digits	253 V	cont. <sub>1) 3)</sub>
	0.000 ... 2.100 mA	1 $\mu$ A										
	2.101 ... 21.00 mA	10 $\mu$ A										
	20.1 ... 120.0 mA	100 $\mu$ A										
Leakage Current $I_L$ <sup>2)</sup>	0.0 ... 310.0 $\mu$ A	100 nA	approx. line voltage <sup>6)</sup>	—	—	—	1 k $\Omega$	—	$\pm(5\% \text{ rdg.} + 10 \text{ digits})$	$\pm(2.5\% \text{ rdg.} + 5 \text{ digit})$ > 10 digit	253 V	cont. <sub>1) 3)</sub>
All Leakage <sup>7)</sup> Current $I_L$	0.210 ... 3.600 mA 3.10 ... > 15.00 mA	1 $\mu$ A 10 $\mu$ A										

Function	Measured Quantity	Measuring Range / Nominal Range of Use	Resolution	Open-Circuit Voltage $U_0$	Short-Circuit Current $I_K$	Internal Resistance $R_I$	Measuring Uncertainty	Intrinsic Uncertainty	Overload Value	Capacity Duration	
Functions Test	Nominal Voltage $U_{L-N}$	103,5 V ... 126,5 V 207.0 ... 253.0 V $\sim$	0.1 V	—	—	—	—	$\pm(2.5\% \text{ rdg.} + 5 \text{ digits})$	253 V	cont.	
	Load Current $I_V$	0 ... 16.00 A <sub>RMS</sub>	10 mA	—	—	—	—	$\pm(2.5\% \text{ rdg.} + 5 \text{ digits})$	20 A	10 min	
	Active Power P	0 ... 3700 W <sup>9)</sup>	1 W	—	—	—	—	$\pm(5\% \text{ rdg.} + 10 \text{ digits})$ > 20 digits	253 V 20 A	cont. 10 min	
	Apparent Power S	0 ... 4000 VA	1 VA	Calculated Value $U_{L-N} \cdot I_V$					$\pm(5\% \text{ rdg.} + 10 \text{ digits})$ > 20 digits		
	Power Factor PF, sinusoidal: $\cos \phi$	0.00 ... 1.00	0.01	Calculated Value P / S, Display > 10 W					$\pm(10\% \text{ rdg.} + 5 \text{ digits})$		
	Residual Current $\Delta I$ between L and N	0.00 ... 31.00 mA $\sim$	10 $\mu$ A	—	—	—	—	$\pm(10\% \text{ rdg.} + 10 \text{ d})$ > 10 digits	$\pm(5\% \text{ rdg.} + 5 \text{ digits})$	1)	1)
$U_{AC/DC}$	Voltage	0 ... 253.0 V $\equiv, \sim$ and $\approx$	0.1 V	—	—	—	$\pm(5\% \text{ rdg.} + 10 \text{ d})$	$\pm(2.5\% \text{ rdg.} + 5 \text{ digits})$ > 10 digits	253 V	cont.	
$U_{probe}$	Probe Voltage	0 ... 253.0 V $\equiv, \sim$ and $\approx$	0.1 V	—	—	—	—	$\pm(2.5\% \text{ rdg.} + 5 \text{ digits})$ > 10 digits	253 V	cont.	
R	Resistance	0 ... 150.0 k $\Omega$	100 $\Omega$	< 20 V–	1.1 mA	—	—	$\pm(1\% \text{ rdg.} + 3 \text{ digits})$	253 V	cont.	
$I_{clip}$	Current via Clip-On Current-Voltage Converter WZ12C	0.000 ... 10.00 A $\sim$	1 mA	—	—	1.5 M $\Omega$	—	$\pm(3\% \text{ rdg.} + 10 \text{ digits})$ > 10 digits	253 V	cont.	
		0 ... 100 A $\sim$	1 A	—	—	1.5 M $\Omega$	—	without clip	253 V	cont.	
Temp	Temperature with Pt100 / Pt1000 Sensor	– 200 ... – 50 $^{\circ}$ C	1 $^{\circ}$ C	< 20 V–	1.1 mA	—	—	$\pm(2\% \text{ rdg.} + 1 \text{ }^{\circ}\text{C})$	10 V	cont.	
		– 50.1 ... + 300.0 $^{\circ}$ C	0.1 $^{\circ}$ C					$\pm(1\% \text{ rdg.} + 1 \text{ }^{\circ}\text{C})$	10 V	cont.	
		+300 ... +850 $^{\circ}$ C	1 $^{\circ}$ C					$\pm(2\% \text{ rdg.} + 1 \text{ }^{\circ}\text{C})$	10 V	cont.	