

SIRAX MT7100 and SIRAX MT7150

三相信号隔离转换器

说明

SIRAX MT7100/MT7150是一种集成电能表和通用电流输入功能的多合一三相信号隔离转换器。适用于导轨安装，可连接所有标准绝缘电流传感器。该型号可测量 $RMS_{AC/DC}$, 最小平均值、最大平均值、频率、峰值因数、最大可测量63次谐波、THD、最大电流峰值和最大电压峰值以及更多。该型号配备了串行输出RS485 Modbus RTU用于测量和数字输出警报。通过随机附赠免费软件更易于配置设备。

特点

- 由PBT制成的耐破塑料外壳
- 符合UL 94 V0阻燃自熄
- 所有常见的电流互感器和温度传感器均可连接
- 由配置软件进行配置
- 串行RS485Modbus/RTU输出
- 垂直或水平位置的导轨或墙壁安装



技术规格

	SIRAX MT7100	SIRAX MT7150
测量类型	RMS AC and DC	
安装形式	DIN rail mounting	
安装位置	arbitrarily, vertically or horizontally	
输入		
电流互感器	Rogowski probe; Current transformer secondary 1A / 5A; Voltage transformer 0 ... 333 mV	
可测量功能	$I_{rms}; U_{rms}; I_{pk}; U_{pk}$ per phase; Active power: P_1, P_2, P_3 ; Reactive power: Q_1, Q_2, Q_3 ; Apparent power: S_1, S_2, S_3 ; Frequency; Power factor total and per phase; Energy (kWh) total and per phase; bidirectional Energy (kWh) total and positive/negative per phase; $\cos\varphi$; Active and reactive energy (kVARh) total and per phase; Crest factor total and per phase	
	Tan φ per phase and average; Power factor total, per phase and average; Power factor distortion per phase and average; power measurement min/max total, per phase and average; monitoring phase sequence; max demand over 15 min. total and per phase; time at which arises max demand (per month) total and per phase; time above a threshold total and per phase; K factor; THD; TDD; harmonics up to 63 th ; interharmonics up to 63 th ; SAG; SWELL; Voltage interruption;	
电源	10 ... 30 VDC or 19 ... 28 VAC (50/60 Hz)	
工作频率	1 ... 70 Hz	
功耗	< 0.7 W	

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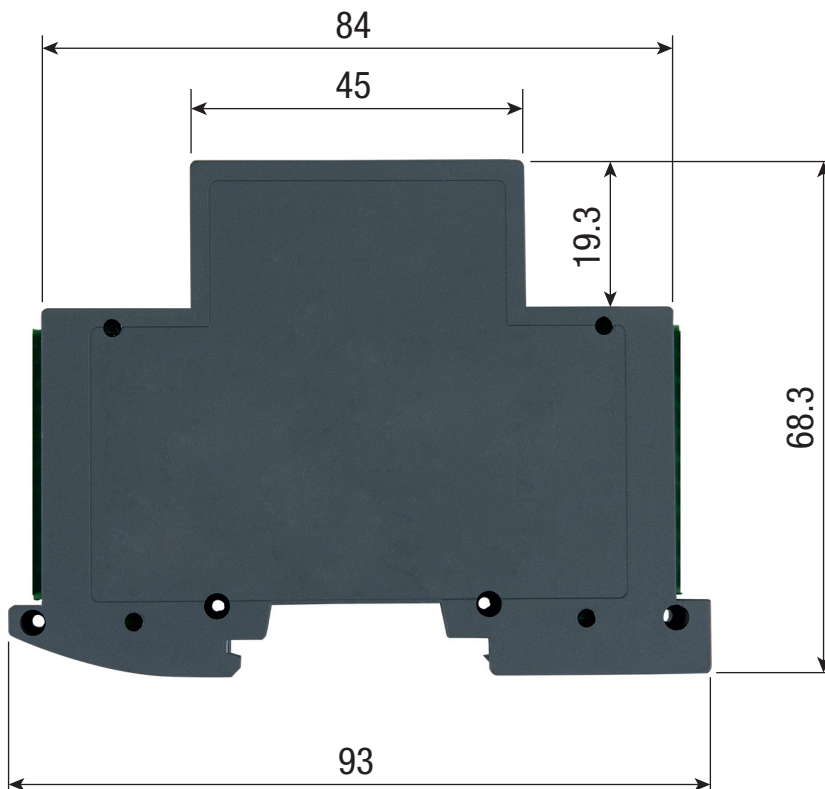
	SIRAX MT7100	SIRAX MT7150
电压输入		
标称电压	300 V _{LN} / 500 V _{LL}	
阻抗	400 kΩ	
连续过载 U _{max}	400 V _{LN} / 700 V _{LL}	
500 ms 过载	600 V _{LN} / 1000 V _{LL}	
电流输入		
类型	not isolated (external CTs necessary)	
Current output CT's		
标称电流 I _n	5 AAC	
阻抗	< 0.5 VA per phase	
连续过载 I _{max}	6 AAC	
500 ms过载	40 AAC	
峰值因数	< 4 (20 A _{PK} max.)	
Voltage output CT's		
标称电压 U _n	333 mVAC	
阻抗	220 kΩ	
连续过载 U _{max}	2.1 V _{PK}	
500 ms 过载	13 V _{PK}	
峰值因数	< 3 (1 V _{PK} max.)	
输出		
数字输出	RS485 Modbus/RTU	
模拟输出	0...10 V or 4...20 mA (configurable via software)	
继电器输出	Free contact (alarm) <100 mA, <40 VDC (Optomos contact)	
精度 (@25°C, 50 Hz)		
电压 (U _n : 230/400V)	± 0.5% RDG (10 ... 100% U _n)	
电流(I _n : 5A)	± 0.5% RDG (5 ... 100% I _n)	
频率	± 0.1 Hz (40 ... 70 Hz)	
有功功率或无功功率	± 0.5% RDG	
有功功耗	Class C according to EN50470-1/3 or Class 0.5S according to EN62053-22	
无功功耗	Class 0.5S according to EN62053-24	
功率因数	± (0.001 +1%(1.00-PF))	
带宽 (-3dB)	> 2 kHz	
温度系数	< 100 ppm/°C	
吸收	< 500 mW @ 24 VDC	
采样率	6400 Hz @ 50 Hz or 7280 Hz @ 60 Hz	
数据备份	Via Flash, minimum lifetime: 3 years	
安全及环境条件		
操作温度	-10 ... +60 °C	
湿度	10 ... 90 % (不结霜)	
防尘防水等级	IP20	
海拔	max. 2000 m	
过电压等级	CATIII	
隔离	4 kV _{RMS} between power supply and measuring inputs 4 kV _{RMS} between RS485 and measuring inputs 1.5 kV _{RMS} between power supply and RS485	

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Three phase network analyzer

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结构特征		
外壳材质	PBT	
易燃等级	UL94 V-0, self-extinguishing, non-dripping, halogen-free	
自重	60 g	
接口	Plug-in terminals 3.5 mm, 1 x 2 Pol, 1 x 3 Pol, 1 x 6 Pol Plug-in terminals 5.08 mm, 1 x 4 Pol	
DIP 开关	2 Pol	
编程	Via DIP switch, Modbus RTU and software	
尺寸	93 x 17.7 x 68.3 mm (without terminals)	
标准		
适用标准	EN61000-6-2 ; EN61000-6-4; EN61000-4-2; EN61000-4-3; EN61000-4-4; EN61000-4-5; EN61000-4-6; EN61010-1; EN61010-2-30	
订货数据		
物料码	180034	180042

Dimensions



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