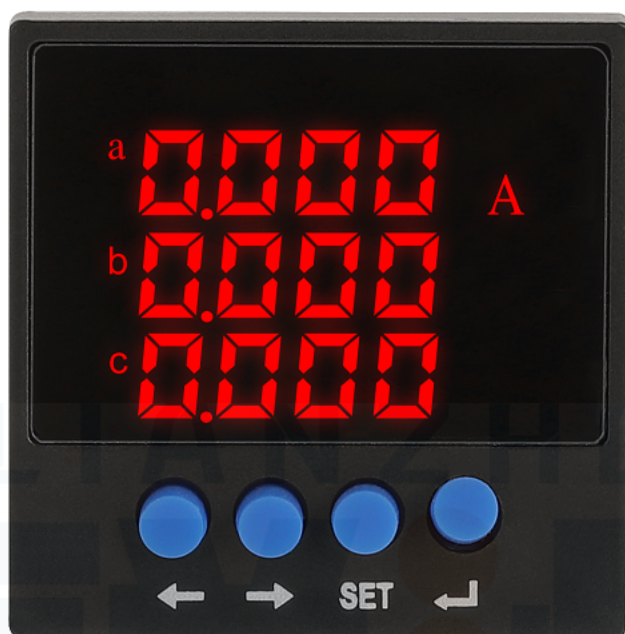


一、概述

CL42-AI3/M3三相数显电流表是一种可编程智能仪表，采用大规模集成电路和亮度、长寿命更长的LED显示，应用数字采样技术，对三相电气线路中的相电压、线电压进行实时测量、显示和控制，并通过RS485接口或模拟量变送输出接口对被测量电压数据进行远传。



特点

- ◎真有效值测量、整四位LED/LCD显示
- ◎软件调校、内部无电位器(精度高、稳定性好、长期工作免调校)
- ◎可编程通过面板按键任意调节显示值1~9999

- ◎可选带通讯功能◎可选一路模拟量输出(DC4-20MA/0-20MA/0-5V)
 ◎可选带上下限报警控制功能◎可选两路开关量输入

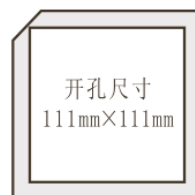
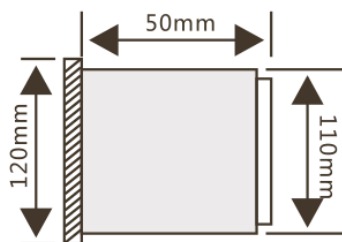
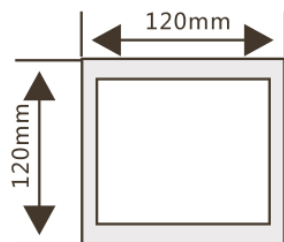
二、技术参数与选型

输入	输入	电压、电流:请根据实际仪表上面的标称值接入
	过载	持续1.2倍，瞬时:电压2倍/1S 电流10倍/5S
	扩展	配互感器或分流器扩展量程
	过量程显示	当前数据+N*9999
	频率	50Hz±10%
电源	电源	AC220V±10%(45~55Hz)(其它电源订货须说明)
	功耗	<2W
显示	LED	四位三排，显示数据更新时间: 1S
	显示	9999
精度等级		0.5%
隔离耐压		2KV/50Hz/1min
绝缘电阻		≥100MΩ
平均无故障工作时间		≥50000h
工作条件		环境温度: -25C 55C，相对湿度≤93%无腐蚀气体场所
海拔高度		≤2500m

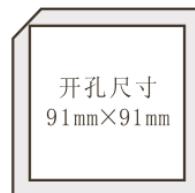
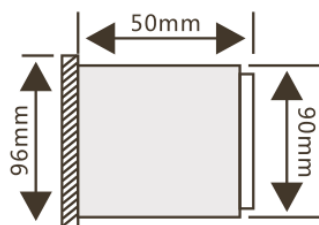
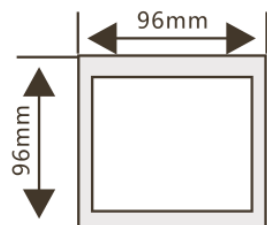
选型表

三、外形及安装尺寸

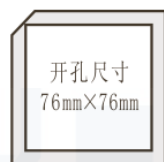
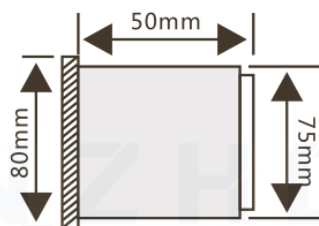
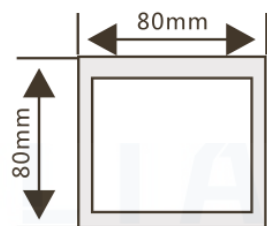
◆ 120mm×120mm



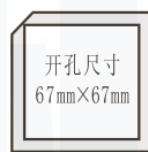
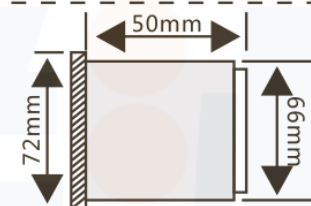
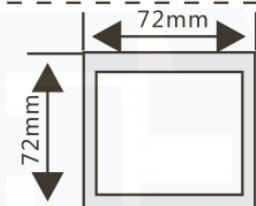
◆ 96mm×96mm



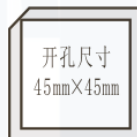
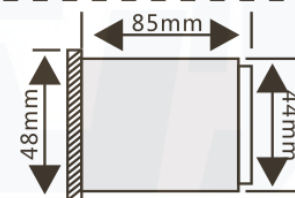
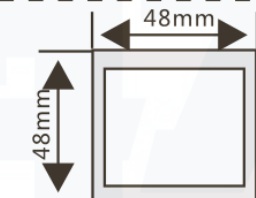
◆ 80mm×80mm



◆ 72mm×72mm

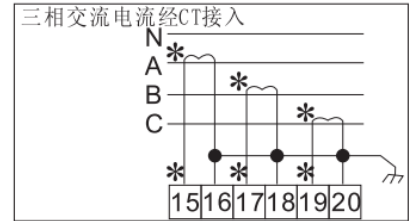
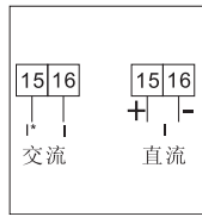
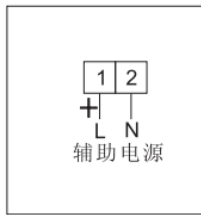


◆ 48mm×48mm

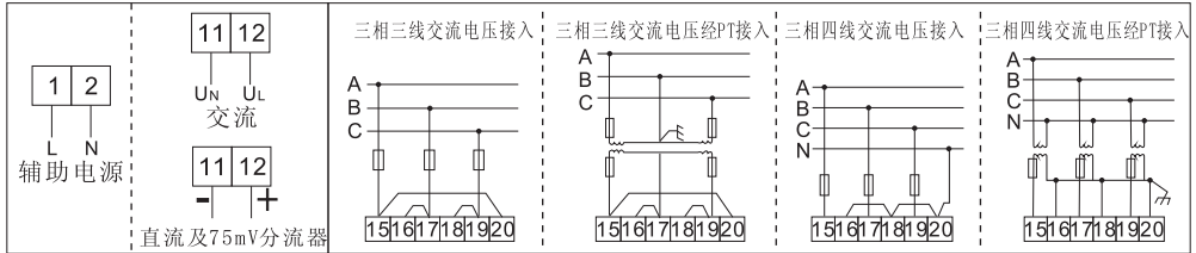


四、接线示意图

◆ 输入电流信号接线



◆ 输入电压信号接线



◆ 扩展功能接线



五、参数设置流程示意图

Figure 1: Setting menu flowchart. The flowchart illustrates the navigation through various settings menus across three levels (第一级, 第二级, 第三级).

Level 1 (第一级):

- Code**: Displays 9999. Press **Menu** to enter.
- SER**: (设置) - Settings menu.
- InPr**: (输入) - Input menu.
- Conn**: (通讯) - Communication menu.
- do-1**: (开关量) - Switching quantity menu.
- Ro-1**: (模拟量) - Analog quantity menu.
- SAVE**: Press **Menu** to save and exit, or **Menu** to exit without saving.

Level 2 (第二级):

- dISP**: (电量显示方式: 0-10) - Power display mode (0-10).
- bLEd**: (此项无意义) - This item is meaningless.
- CLrE**: (按 **Menu** 电能清零) - Press **Menu** to clear energy.
- nEr**: (信号网络) - Signal network.
- UScL**: (电压范围) - Voltage range.
- IScL**: (电流范围) - Current range.
- F.U**: (电压倍率范围: 1-9999) - Voltage multiplier range (1-9999).
- F.I**: (电流倍率范围: 1-9999) - Current multiplier range (1-9999).
- Sn**: (仪表通讯地址范围: 1-247) - Instrument communication address range (1-247).
- bAUD**: (波特率) - Baud rate.
- dAtA**: (协议格式) - Protocol format.
- Pr.oF**: (协议格式) - Protocol format.

Level 3 (第三级):

- dISP**: (电量显示方式: 0-10) - Power display mode (0-10).
- bLEd**: (此项无意义) - This item is meaningless.
- CLrE**: (按 **Menu** 电能清零) - Press **Menu** to clear energy.
- nEr**: (信号网络) - Signal network.
- UScL**: (电压范围) - Voltage range.
- IScL**: (电流范围) - Current range.
- F.U**: (电压倍率范围: 1-9999) - Voltage multiplier range (1-9999).
- F.I**: (电流倍率范围: 1-9999) - Current multiplier range (1-9999).
- Sn**: (仪表通讯地址范围: 1-247) - Instrument communication address range (1-247).
- bAUD**: (波特率) - Baud rate.
- dAtA**: (协议格式) - Protocol format.
- Pr.oF**: (协议格式) - Protocol format.
- oLd**: (另三路类似) - Similar to the other three channels.
- n-1**: (另三路类似) - Similar to the other three channels.
- n-2**: (另三路类似) - Similar to the other three channels.

Notes:

- 退出菜单设定, 出现SAVG YES时, 按 **Menu** 键为保存退出, 按 **Menu** 退出无效。
- 注: 退出菜单设定, 出现SAVG YES时, 按 **Menu** 键为保存退出, 按 **Menu** 退出无效。
- 注: 退出菜单设定, 出现SAVG YES时, 按 **Menu** 键为保存退出, 按 **Menu** 退出无效。