

一、概述

ZPA1941-DK4三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

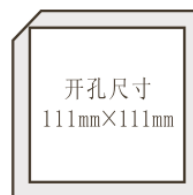
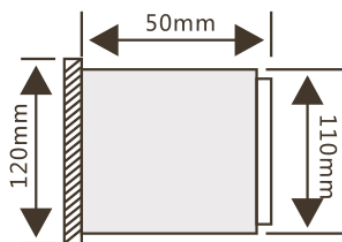
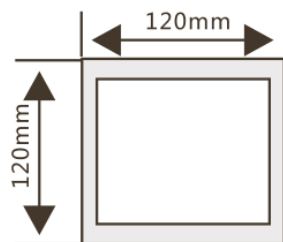
二、技术参数与选型

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 $\pm$ 10%
电源	电源	AC220V $\pm$ 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		$\geq 100M\Omega$
平均无故障工作时间		$\geq 50000h$
工作条件		环境温度: -25C 55C, 相对湿度 $\leq 93\%$ 无腐蚀气体场所
海拔高度		$\leq 2500m$

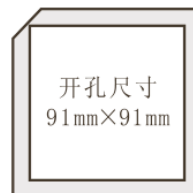
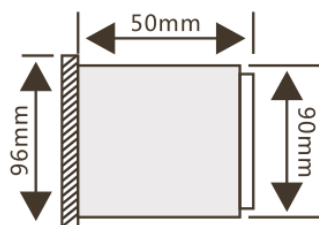
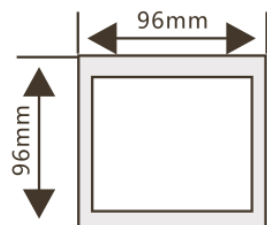
选型表

三、外形及安装尺寸

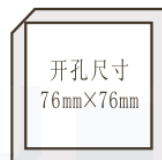
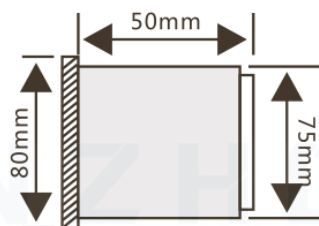
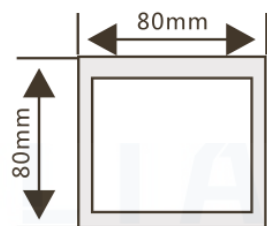
◆ 120mm×120mm



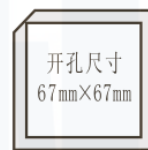
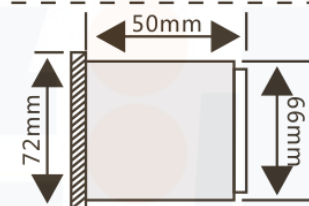
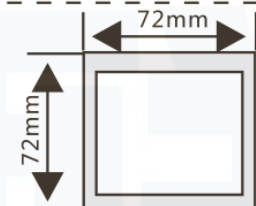
◆ 96mm×96mm



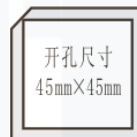
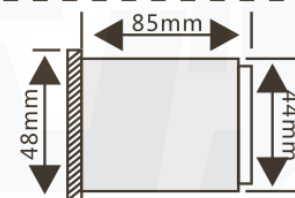
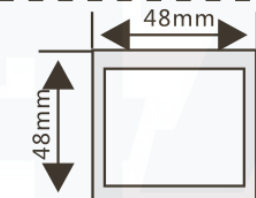
◆ 80mm×80mm



◆ 72mm×72mm

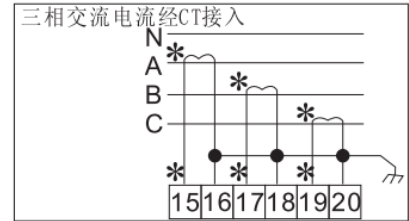
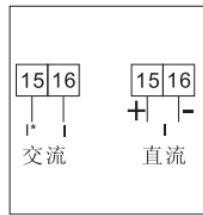
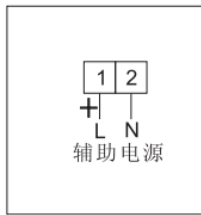


◆ 48mm×48mm

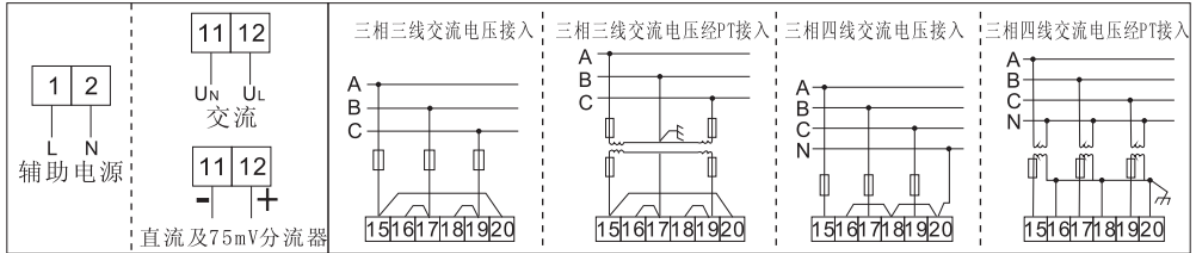


四、接线示意图

◆ 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 diagram illustrates the navigation and settings for the device's menu system, organized into four levels (第一级, 第二级, 第三级, 第四级).

- Level 1 (第一级):**
 - Menu (0000) → Code (9999)
- Level 2 (第二级):**
 - Code (0001) → Set (0001)
- Level 3 (第三级):**
 - Set (0001) → dISP (0000) (电量显示方式: 0-10)
 - Set (0001) → bLEd (0001) (此项无意义)
 - Set (0001) → CLrE (0002) (按 电能清零)
 - Set (0001) → InPr (0001) (信号网络)
 - Set (0001) → UScL (100) (电压范围)
 - Set (0001) → IScL (1) (电流范围)
 - Set (0001) → F.U (0001) (电压倍率范围: 1-9999)
 - Set (0001) → F.I (0001) (电流倍率范围: 1-9999)
 - Set (0001) → Conn (0001) (仪表通讯地址范围: 1-247)
 - Set (0001) → bAUD (4800) (波特率)
 - Set (0001) → dAtA (n8.1) (协议格式)
 - Set (0001) → Pr.of (Uord) (协议格式)
 - Set (0001) → do-1 (0000) (开关量)
 - Set (0001) → Ro-1 (0000) (模拟量)
- Level 4 (第四级):**
 - do-1 (0000) → do-1 (0129) (另三路类似)
 - Ro-1 (0000) → Ro-1 (0129) (另三路类似)
- Additional Settings:**
 - SAVE (YES) (保存退出)
 - Menu (退出无效)
 - Code (0001) → Code (0001) → Code (0001) → Code (0001) → Code (0001) (密码范围 0~9999)