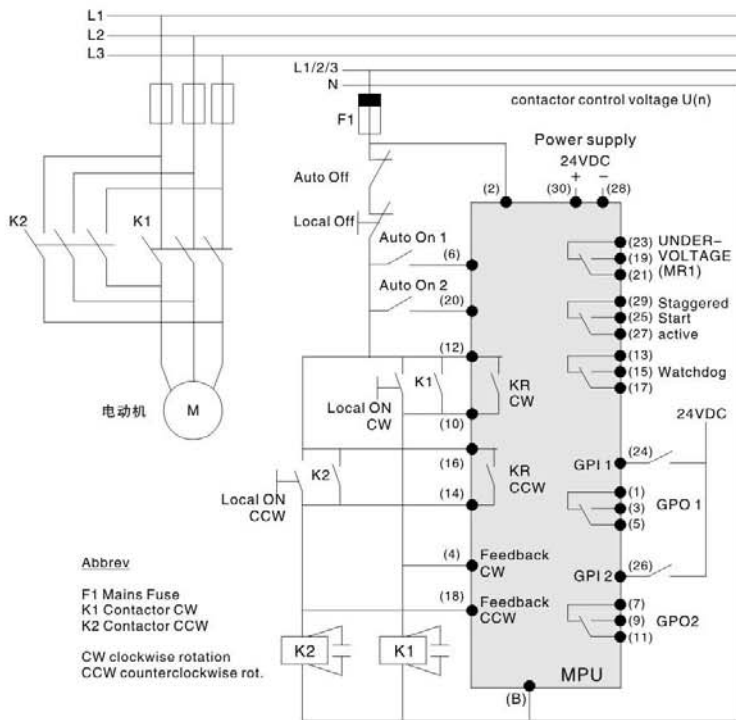
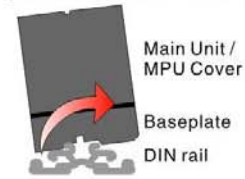


1.MPU wiring schematic



2.MPU parts and mounting



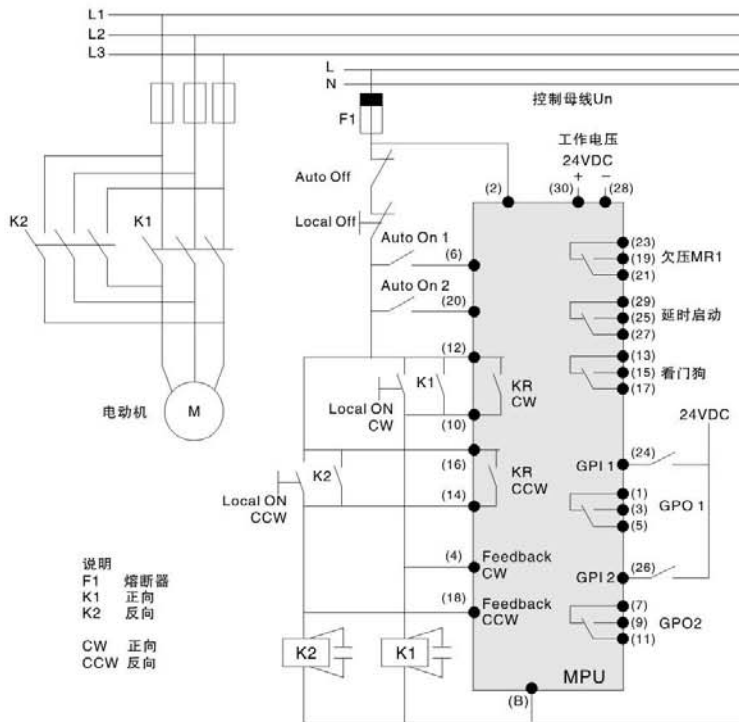
3.MPU Terminal Description

Description	MPU Terminals	Description
GPO1 Relay common	1 2	Voltage Monitor In (Phase)
GPO1 Relay opening contact	3 4	Contactor Coil Voltage (CW = K1)
GPO1 Relay closing contact	5 6	Auto ON 1
GPO2 Relay common	7 B	Voltage Monitor Neutral
GPO2 Relay opening contact	9 10	Contactor Control Relay Output (CW)
GPO2 Relay closing contact	11 12	Contactor Control Relay Output (CW)
"Watchdog" Relay common	13 14	Contactor Control Relay Output (CCW)
"Watchdog" Relay opening contact	15 16	Contactor Control Relay Output (CCW)
"Watchdog" Relay closing contact	17 18	Contactor Coil Voltage (CCW = K2)
"Undervoltage" (MR1) Relay closing contact	19 20	Auto ON 2
"Undervoltage" (MR1) Relay common	21 22	NC
"Undervoltage" (MR1) Relay opening contact	23 24	General Purpose Input GPI 1 (24VDC)
"Staggered Start active" Relay closing contact	25 26	General Purpose Input GPI 2 (24VDC)
"Staggered Start active" Relay common	27 28	Power Supply -24V DC
"Staggered Start active" Relay opening contact	29 30	Power Supply +24V DC

4.Getting started

Step		Action
1		Select the correct nominal voltage level Un with the Un-selector switch (acc. The list printed on the top)
2		Select the operating mode (ERM/TDRM): The Main Unit has to be removed from the Base Unit. The selector switch is located on the PCB board. After power up the selected operating mode is indicated on the top of MPU with LEDs.
3		Select the Restart Delay Time (Ts): The Ts-selector switch has to be in the correct position (acc. the list printed on the top). In Pos. F the MPU is using the Ts setting adjusted by the user with the Parameterization Tool software.
4		After power up of the MPU the selected operating mode (ERM/TDRM) is indicated with a LED on the top. These LEDs also indicate that the internal power supply is OK as at least one of the LEDs has to be ON.

1.MPU 接线图



2.MPU 部件和安装



从DIN导轨拆卸MPU



从连接底座取下主模块

3.MPU接线端子说明

说明	MPU 接线端子	说明
输出继电器GPO 1公共端	1 2	测量电压相线
输出继电器GPO 1常开端	3 4	正序断路器K1线圈反馈电压
输出继电器GPO 1常闭端	5 6	自动控制接点ON 1
输出继电器GPO 2公共端	7 B	测量电压N线
输出继电器GPO 2常开端	9 10	正序断路器控制继电器输出
输出继电器GPO 2常闭端	11 12	正序断路器控制继电器输出
看门狗继电器公共端	13 14	负序断路器控制继电器输出
看门狗继电器常开端	15 16	负序断路器控制继电器输出
看门狗继电器常闭端	17 18	负序断路器K2线圈反馈电压
欠压继电器MR 1常闭端	19 20	自动控制接点ON 2
欠压继电器MR 1公共端	21 22	空端子
欠压继电器MR 1常开端	23 24	输入接点GPI 1
延时启动继电器常闭端	25 26	输入接点GPI 2
延时启动继电器公共端	27 28	工作电源 (24-)
延时启动继电器常开端	29 30	工作电源 (24+)

4.启动

步骤	示意图	操作说明
1		使用Un拨码开关选择正确的额定电压 (开关数字对应的电压值见装置顶部列表)
2		选择操作模式(ERM/TDRM): 将主模块从连接底座上取下; 选择开关位于主模块的PCB上; 通电后, 仪表顶部的LED将指示仪表操作模式。
3		选择延时启动时间(Ts): Ts拨码开关应位于正确位置 (开关数字对应的时间见装置顶部列表)。当拨码开关位于位置F时, Ts由用户通过参数设置工具软件设置。
4		通电后, 仪表顶部的LED将指示出仪表当前的操作模式。如果LED都不亮则表明仪表工作电源可能不正常。

Note: 安装和维护必须仅由指派的电气人员严格按照技术规范, 代码和相关标准 (即 EN60204 部分 1) 执行。