

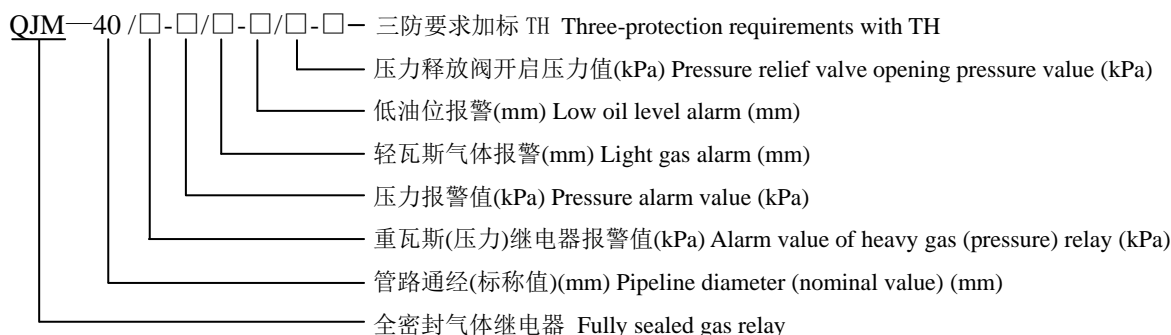
QJM-40 全密封变压器气体继电器

QJM-40 hermetically sealed transformer gas relay

一、产品简介与型号说明: Product introduction and model description

QJM-40 型全密封变压器气体继电器是全密封变压器的专用保护继电器, 可对变压器提供瓦斯气体保护、低油位、重瓦斯保护(压力超限保护)、油位显示(油位表)、注油、补油、压力释放等功能。可极大方便供电部门监视全密封变压器运行情况及诊断变压器故障, 适用于全密封变压器及箱式变电站。

QJM-40 full-seal transformer gas relay is a special protection relay for full-seal transformer, which can provide gas protection, low oil level, heavy gas protection (pressure over-limit protection), oil level display (oil level gauge), oil injection, oil supplement, pressure release and other functions for the transformer. It is very convenient for the power supply department to monitor the operation of the hermetically sealed transformer and diagnose the transformer faults, and it is applicable to hermetically sealed transformer and box-type substation.



标注实例: QJM-40/30/20/35 TH 表示全密封用的, 管路通径为 40mm, 重瓦斯(压力)继电器报警值为 30kPa, 轻瓦斯气体报警油位为油箱盖下部 20 mm, 压力释放阀开启压力值为 35kPa 的气体继电器(如果客户需要, 该产品可以增加低油位报警接点及压力释放阀报警点)三防功能变压器用气体继电器。

Example annotation: QJM-40/30/20/35 TH indicates a gas relay for fully sealed use, with a pipeline diameter of 40mm, a heavy gas (pressure) relay alarm value of 30kPa, a light gas alarm oil level of 20mm below the oil tank cover, and a pressure relief valve opening pressure value of 35kPa (if required by the customer, this product can add low oil level alarm contacts and pressure relief valve alarm points). It is a gas relay for transformers with three prevention functions.

使用范围: (a). 安装位置: 安装于箱盖顶部; (b). 环境要求: $-30^{\circ}\text{C} \sim +70^{\circ}\text{C}$ (可根据用户需求定制最高可支持 $-45^{\circ}\text{C} \sim +70^{\circ}\text{C}$); 工作环境要求: $-30^{\circ}\text{C} \sim +115^{\circ}\text{C}$ (可根据用户需求定制最高可支持 $-45^{\circ}\text{C} \sim +115^{\circ}\text{C}$); (c). 相对湿度: $+20^{\circ}\text{C}$ 时, 不大于 95%; (d). 防护等级: IP55 (可根据用户需求定制)。适用范围: 海拔 0~4000m; (e). 接点容量: AC 220V/3A、DC 220V/0.5A; (f). 工频耐压: 常开接点 2000V, 1min, 常闭接点或单刀双掷接点: 相间 1000V, 1min, 对地 2000V, 1min; (g). 绝缘性能: 常开接点 2500V, 500M Ω , 常闭接点或单刀双掷接点: 相间 1000V, 500M Ω , 对地 2500V, 1000M Ω 。

Scope of use: (a). Installation position: Installed on the top of the box cover; (b) Environmental requirements: -30°C to $+70^{\circ}\text{C}$ (can be customized according to user needs to support up to -45°C to $+70^{\circ}\text{C}$); Work environment requirements: $-30^{\circ}\text{C} \sim +115^{\circ}\text{C}$ (customizable according to user needs, can support up to $-45^{\circ}\text{C} \sim +115^{\circ}\text{C}$); (c) Relative humidity: not exceeding 95% at $+20^{\circ}\text{C}$; (d) Protection level: IP55 (Customizable according to user requirements). Scope of application: Altitude 0~4000m.; (e) Contact capacity: AC 220V/3A、DC 220V/0.5A; (f) Power frequency withstand voltage: normally open contact 2000V, 1min, normally closed contact or single pole double throw contact: phase to phase 1000V, 1min, ground 2000V, 1min; (g) Insulation performance: normally open contact 2500V, 500M Ω , normally closed contact or single pole double throw contact: phase to phase 1000V, 500M Ω , ground 2500V, 1000M Ω .

二、安装尺寸图: Drawing

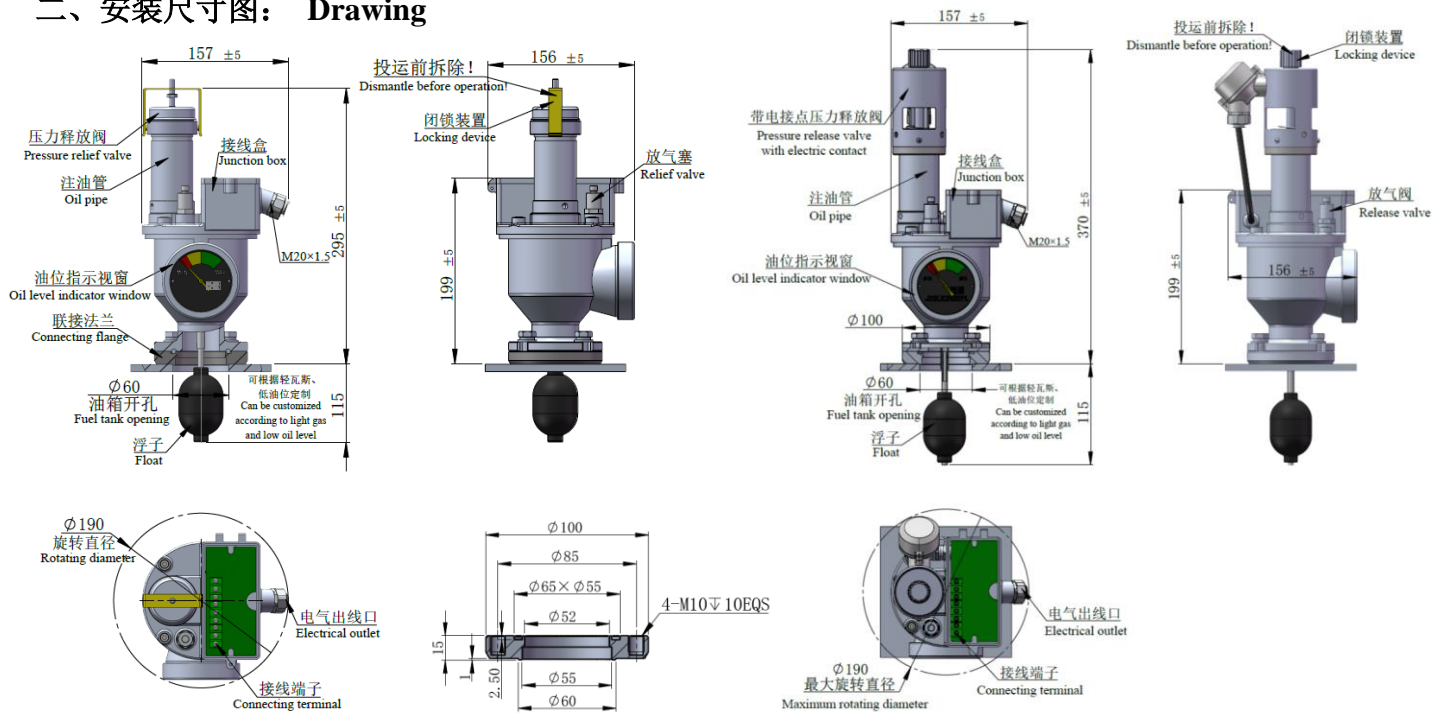


图 1 QJM-40 气体继电器外形尺寸图

Figure 1 Outline dimension diagram of QJM-40 gas

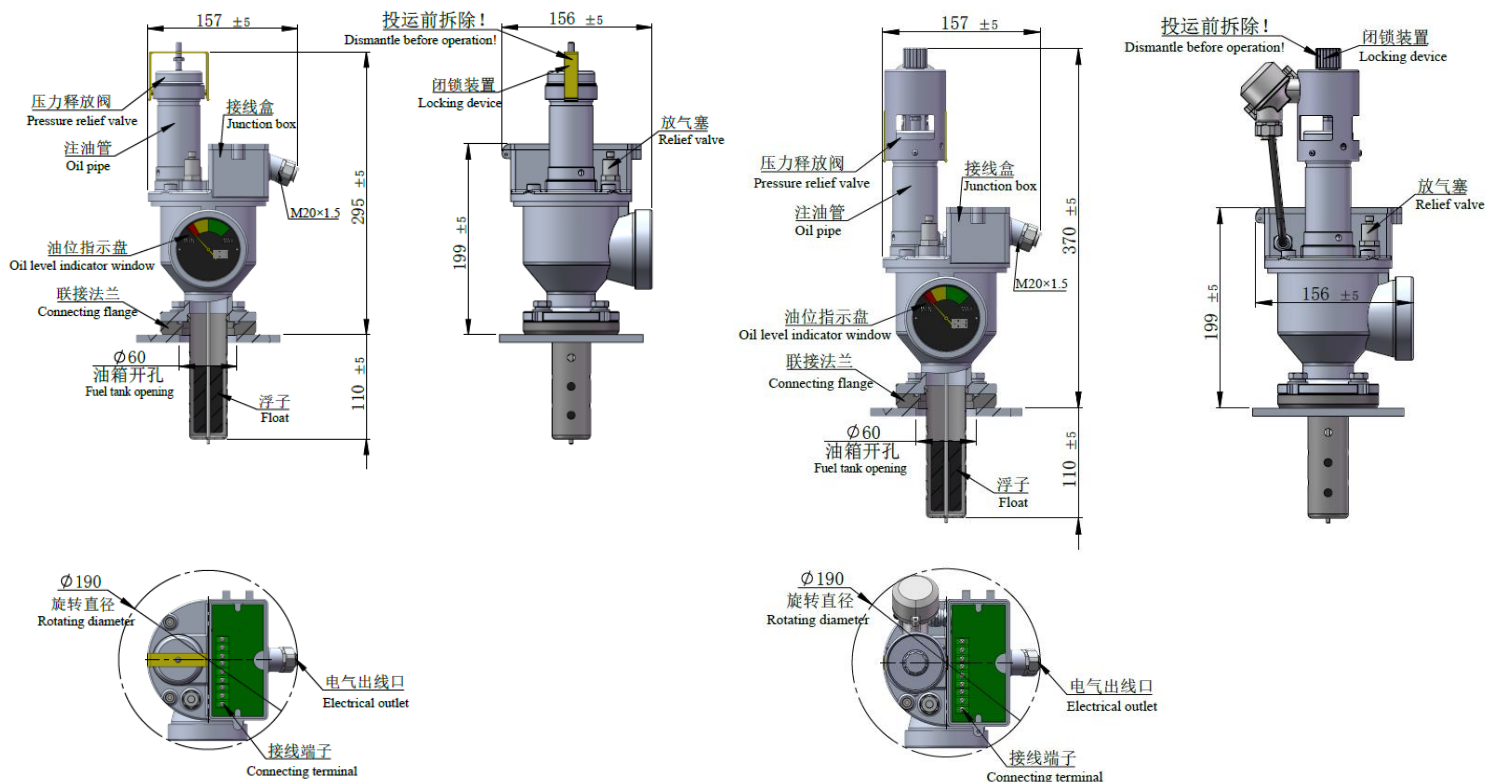


图 2 QJM-40 气体继电器外形尺寸图(带浮子保护罩)

Figure 2 Outline dimension diagram of QJM-40 gas relay(with float protection cover)

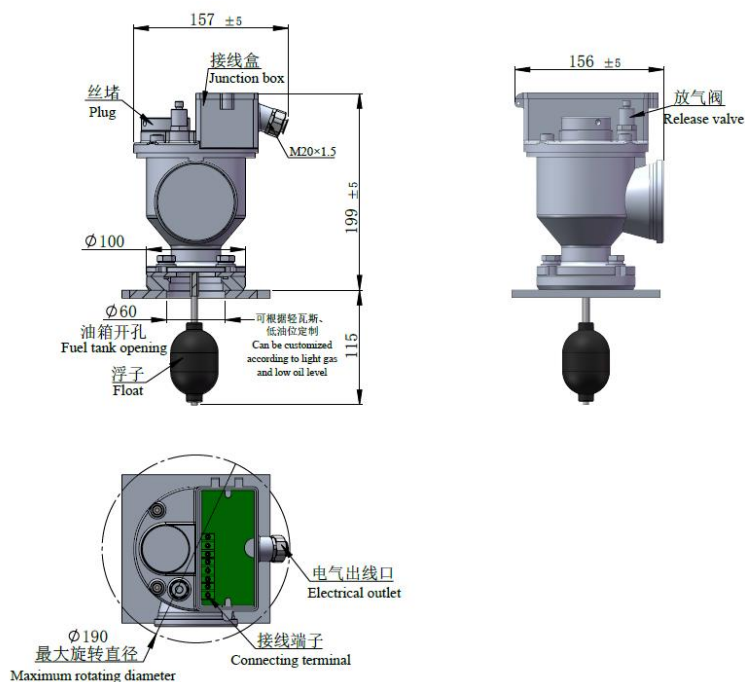
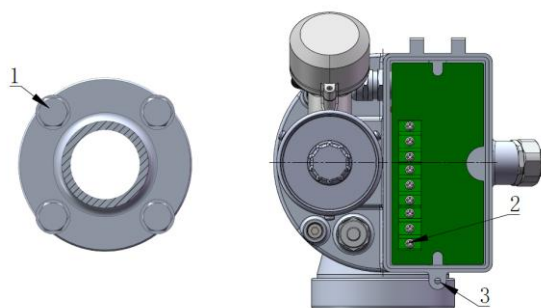


图3 QJM-40T 气体继电器外形尺寸图(无视窗、无注油管)

Figure 3 Outline dimension drawing of QJM-40T gas relay (without window and oil injection pipe)



扭矩参考表

Torque Reference Table

序号 Number	装配位置 Assembly position	螺纹规格 Thread specification	推荐扭矩 Recommended torque	装配工具规格 Assembly tool specification		备注 Notes
1	法兰安装孔 Flange installation hole	M10 螺栓 bolt	18~22Nm		17mm	
2	接线端子 Connecting terminal	M4	1.5~2Nm		PH2	建议手动安装 Suggest manual installation
3	接线盒盖 Terminal box cover	M4	1.5~2Nm		PH2	建议手动安装 Suggest manual installation

本产品提供多种颜色选择, 具体描述如下:

The product provides a variety of color options, specifically described as follows:

色卡编号 Color card No	颜色 Color	可选性 Optionality of choice
RAL7038	玛瑙灰 Agate grey	默认 (Default)
RAL7042	交通灰 A Traffic grey A	可选 (Optional)
RAL7035	浅灰色 Light grey	可选 (Optional)

三、接线图: Wiring diagram

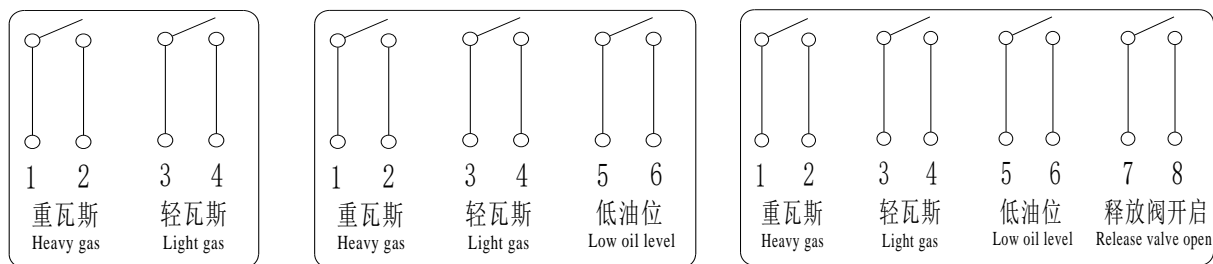


图4 QJM-40 气体继电器电气接线图

Figure 4 Electrical wiring diagram of QJM-40 gas relay