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Caterpillar emcp ii service manual

Emcp ii manual pdf. Emcp ii wiring diagram. Emcp 2 manual pdf. Emcp 1 manual pdf.

注: 如果您的发电机采用 PEEC 发动机, 则控制面板如图 1、2 和 3 中所示。 您控制面板的内部可能没有下图中描绘的所有部件。 图 1g00585178 EMCP II+ 和 EMCP II+P 控制面板的部件。 (1) 发电机组控制面板 (GSC+) 或发电机组控制 + 并联控制面板 (GSC+P) (2) 自定义报警模块 (CAM) (3) 报警模块 (ALM) (选装) (4) 面板灯开关 (PLS) (5) 泵停运开关 (选装) (6) 启动辅助开关 (SAS) (7) 泵运行开关 (选装) (8) 调压变阻器 (VAR) (9) Caterpillar 监控系统显示屏 (选装) (10) Caterpillar 监控系统"滚动"开关 (选装) (11) Caterpillar 监控系统"清除/模式"开关 (选装) (12) Caterpillar 监控系统"左/右"开关 (选装) (13) 断路器闭合按钮 (仅限于并联面板) (14) 断路器断开按钮 (仅限于并联面板) (15) 并联模式开关 (仅限于并联面板) (16) 发动机控制开关 (ECS) (17) 紧急停机按钮 (ESPB) (18) 转速电位计 (SP) (选装) 或调速器开关 (GS) (选装) (注释 A) 只有 EMCP II+P 并联面板上才存在这些图形符号。 图 2g00730395 EMCP II+ 和 EMCP II+P 控制面板的部件。 (1) 发电机组控制面板 (GSC+) 或发电机组控制 + 并联控制面板 (GSC+P) (2) 自定义报警模块 (CAM) (3) 报警模块 (ALM) (选装) (4) 面板灯开关 (PLS) (5) 泵停运开关 (选装) (6) 启动辅助开关 (SAS) (7) 泵运行开关 (选装) (8) 调压变阻器 (VAR) (9) Caterpillar 监控系统显示屏 (选装) (10) Caterpillar 监控系统"滚动"开关 (选装) (11) Caterpillar 监控系统"清除/模式"开关 (选装) (12) Caterpillar 监控系统"左/右"开关 (选装) (13) 断路器闭合按钮 (仅限于并联面板) (14) 断路器断开按钮 (仅限于并联面板) (15) 并联模式开关 (仅限于并联面板) (16) 发动机控制开关 (ECS) (17) 紧急停机按钮 (ESPB) (18) 转速电位计 (SP) (选装) 或调速器开关 (GS) (选装) 图 3g00585599 EMCP II+P 的仪表板内部-安装板 (19) 控制继电器 (CR) (20) 发电机运行继电器 (GRR) (选装) (21) 保险丝 15 (F15) (选装) (22) 保险丝 23 (F23) (选装) (23) 发电机冷却继电器 (GCR) (仅限于并联面板) (24) 断路器控制继电器 (BCR) (仅限于并联面板) (25) 断路器辅助继电器 (BKRR) (仅限于并联面板) (26) 交流变压器箱 (ATB+) (27) 母线继电器 (BUSR) (仅限于并联面板) (28) 欠电压定时器 (UVT) (仅限于并联面板) (29) 死母线变压器保护用保险丝 31 (F31) (仅限于并联面板) (30) 死母线变压器保护用保险丝 32 (F32) (仅限于并联面板) (31) 保险丝 40 (F40) (仅限于并联面板) (32) 端子块 (33) 端子块 图 4g00585615 EMCP II+P 的仪表板内部-安装板 (34) 死母线变压器 (35) 2301A 转速控制 (36) BTB+ : 母线变压器箱 (37) 变压器 (用于负载共享模块) (38) 变压器 (用于负载共享模块) 图 5g00585622 EMCP II+P 的仪表板内部-安装板 (39) 死母线变压器 (40) 负载共享模块 (41) BTB+ : 母线变压器箱 (42) 变压器 (用于负载共享模块) (43) 变压器 (用于负载共享模块) 图 6g00585602 EMCP II+P 面板的客户接线盒 (44) 千瓦继电器 (KWR) (45) 报警继电器 (ALR) (46) 泵继电器 (选装) (47) 交流发电机 (ATR) 和轴承 (BTR) 温度继电器 (选装) (48) 直流接头 (49) 交流接头 (50) 电压调节器 (51) 端子块 (52) 加热器接触器 (HC) (选装) (53) 接地故障继电器 (EFR) (选装) (54) 保险丝 (55) 蓄电池充电器 (BC) (选装) (56) 接地故障变压器 (TX) (选装) (57) 泵接触器 (PC) (选装) (58) 装备继电器 (AR) (选装) 图 7g00393744 仪表板 - 客户接线盒 (3500 发电机组) 侧盖已拆下的控制面板右视图 (59) 气缸高温计 (选装) (60) 接地故障继电器 (EFR) (选装) (61) 装备继电器 (AR) (选装) (62) 加热器接触器 (HC) (3406E 上选装和 3500 上标配) (63) 蓄电池充电器 (BC) (选装) (64) 交流发电机温度继电器 (ATR) (选装) 和轴承温度继电器 (BTR) (选装) (65) 千瓦继电器 (KWR) (66) 报警继电器 (ALR) (67) 数字式电压调节器 (DVR) (68) 变压器 图 8g00393837 仪表板 - 底视图 (EMCP II+ 控制面板和 EMCP II+P 控制面板) (69) 直流接头 #3 - 来自客户接线盒 (70) 交流接头 - 来自发电机 (71) 直流接头 #1 - 来自发电机 (72) 直流接头 #3 - 来自发电机 图 9g00731811 仪表板内部 - 安装板 (EMCP II+ 控制面板 - 不适用于 PEEC) (73) 电子调速器 (3500 MUI 发电机上标配和 3412 MUI 发电机上选装) (74) 空气切断继电器 (3400 发电机组上不用, 而在 3500 发电机组上选装) (75) 控制继电器 (CR) (选装) (76) 发电机运行继电器 (GRR) (77) 保险丝 (78) 端子块 (79) 保险丝 图 10g00720350 盖板已拆下的发电机继电器箱 (用于 ETS) (80) 启动马达电磁开关 (SMMS) (81) 启动马达电磁开关 (SMS) (启动和充电系统选项) (82) 断路器: 小齿轮电磁阀 (83) 断路器: 充电交流发电机 (84) 断路器: 燃油控制电磁阀 (85) 随动继电器 (SR) 、 燃油控制 (EFCR) 、 燃油控制定时器模块 图 11g00720174 盖板已拆下的 3400 发电机继电器箱 (用于 ETR) (86) 启动马达电磁开关 (SMMS) (启动和充电系统选项) (80) 断路器: 小齿轮电磁阀 (89) 断路器: 充电交流发电机 (90) 燃油控制 (保险丝) (91) 燃油控制继电器 (FCR) 多数 EMCP II+ 部件和 EMCP II+P 部件位于前面板、安装板、客户接线盒 (3412) 或配线箱内。 位于发动机上面或发动机附近的其他部件有发动机机油压力传感器 ("EOPS")、发动机冷却液温度传感器 ("ECTS")、端电转速传感器 (MPU)、发动机机油温度传感器 ("EOTS") 和透装发动机冷却液缺失传感器 ("ECLS")。 1. Perform all before-starting inspections. Refer to "Before Starting" in the Engine Operation And Maintenance Guide. 2. Turn Engine Control Switch (ECS) (1) to the Manual Start position. The engine will start and run as long as the ECS (1) is in this position. 3. When the engine starts, the engine fault circuits are now functional (armed). Should a fault occur, the engine will be automatically shut down.NOTE: To restart the engine after being shutdown by a fault, first correct the fault condition, then turn ECS (1) to the Off-Reset position. Next start the engine as per step 2. 4. After the engine starts and its systems have stabilized, apply the load. 5. Regulate the frequency of the generator with the optional Governor Switch (GS) or the optional Speed Potentiometer (SP) (2) or the Manual Governor Control Lever on the engine. 6. Regulate the voltage level of the generator with the voltage adjust rheostat (VAR) (3). 1. Remove the load from the engine. 2. Turn the Engine Control Switch (ECS) to the Stop position. This will allow the engine to run for the preset, or programmed cool down time before shutdown. If high idle cool down at no load is not desired proceed to Step 3. 3. Reduce engine speed to Low idle (approximately 2/3 the full load speed of 60 Hz units or 4/5 full load speed of 50 Hz units). Push down on the Governor Switch (GS) until low idle is achieved (for governors with electric motors), or turn down the Speed Potentiometer (SP) (for electronic governors). For manual governors move the Governor Control lever to the low idle position. 4. While the engine is at low idle, measure the engine oil level. Oil level must be maintained between the Add and Full marks on the Engine Running side of the dipstick.NOTE: For 3200 Series engines, the oil level cannot be measured with the engine running. 5. Allow the engine to cool down while running at low idle (approximately five minutes). After the engine cools, turn the Engine Control Switch to the Off-Reset position. NOTE: The Emergency Stop Button is red in color and is used to shutdown the engine only in an emergency situation. It should not be used for normal engine stopping. If the emergency stop switch was used to shut down the engine, it will be necessary to reset the switch. To reset the switch, pull out and rotate the button in the direction shown. NOTE: If the emergency stop button was used to shutdown the engine it will be necessary to reset the air shutoff (if equipped).Before starting the engine, correct the problem that necessitated the emergency stop.