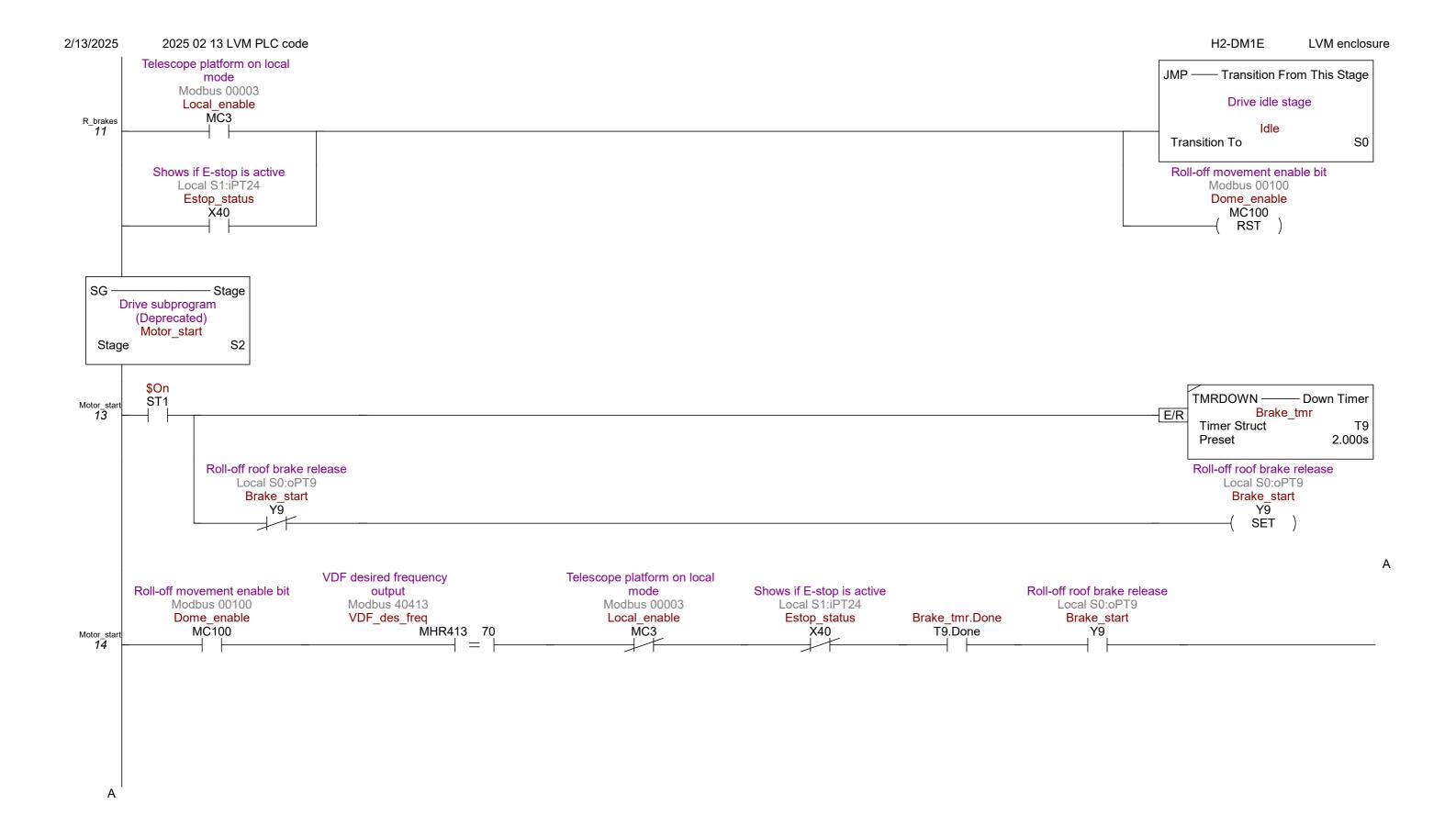


2/13/2025 2025 02 13 LVM PLC code H2-DM1E LVM enclosure To move the roll off, the system has to be in: Remote mode (local enable off) E-stop not triggered (Estop status off) Motor direction commanded has to agree with GS3 direction (Motor_dir == Status_2:4) Telescope platform on local JMP — Transition From This Stage Shows if E-stop is active GS3 drive direction Roll-off movement enable bit mode Drive subprogram Local S1:iPT24 Modbus 00100 Modbus 00003 Modbus 40412 (Deprecated) Status_2:4 Dome enable Local enable Estop_status MC100 MC3 X40 MHR412:4 0 Idle 6 R brakes = + Transition To S1 Local enable is normally open, as system will jump to Local enabled stage if Local_enable is on (Local mode) Telescope platform on local — Transition From This Stage mode Drive subprogram Modbus 00003 (Deprecated) Local enable MC3 R brakes Transition To S1 SG-Stage Drive subprogram (Deprecated) R brakes S1 Stage \$On TMRDOWN — Down Timer ST1 R_brakes Brake tmr E/R **Timer Struct** T9 2.000s Preset Roll-off roof brake release Roll-off roof brake release Local S0:oPT9 Local S0:oPT9 Brake_start Brake_start Y9 Y9 SET Telescope platform on local — Transition From This Stage mode Shows if E-stop is active Local S1:iPT24 Drive subprogram Modbus 00003 (Deprecated) Brake tmr.Done Local_enable Estop_status T9.Done MC3 X40 R_brakes 10 Motor start Transition To S2



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H2-DM1E LVM enclosure MWX -- Modbus Network Write Device @IntSerModbusClient Unit ID 6 - Write Single Register **Function Code** Modbus Address 4... + offset value entered below To Modbus Offset Address 2332 Constant On Success, JMP to stage Movement On Error, Set bit C211 Exception Response Drive_MB_except Shows if E-stop is active MWX -Modbus Network Write Local S1:iPT24 Estop status X40 Motor_sta @IntSerModbusClient Device Unit ID **Function Code** 6 - Write Single Register Modbus Address 4... + offset value entered below To Modbus Offset Address Constant 0 On Success, JMP to stage Drive_disable On Error, Set bit C211 **Exception Response** Drive_MB_except Telescope platform on local Roll-off movement enable bit mode Modbus 00003 Modbus 00100 Local_enable Dome_enable MC3 MC100 RST SG · - Stage Drive subprogram (Deprecated) Movement Stage S3 \$On TMR - Timer ST1 Movemen 17 E/R Dome_tout Timer Struct T0 Dome_move_tout Preset (ms) COPY -Copy Data Source Destination Count 1 Dome_tout.Acc Curr_tout_tmr 1

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Drive

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Set the parameters to stop the drive:

- In case of current above 10 A (100)
- In case of user command (MC 100)
- Dome timeout (set to 2 min 25 sec)

Disabled a lower value for overcurrent & timeout of 5 sec.

If heartbeat is lost, wait to close, and jump to error state

If local mode activated, stop dome and jump to error state.

