



DESIGN NOTES (remove after design completed):

1. CHECK ALL TERMINAL DESIGNATIONS AS PER MANUFACTURERS DATA SHEETS/MANUALS
2. IF PUMP 1: IF THIS DRAWING IS PUMP 2 THEN REFERENCE TO PUMP 2
3. IF PUMP 1: IF THIS DRAWING IS PUMP 2 THIS CONTACT IS A TIMER
4. IF REQUIRED
5. OPTION FOR FUTURE RTU
6. INTERLOCK TO OTHER PUMP
7. MCC CONTROL TERMINAL - TBC DURING DETAILED DESIGN
8. VSD GREATER THAN 60kW MUST BE WALL MOUNTED
9. IF REMOTE KEYPAD USED

NOTES:

1. WIRE NUMBERS TO BE PREFIXED BY MTRxxxx-
2. DEVICE NUMBERS TO BE SUFFIXED BY THE MOTOR NUMBER (xxxx)
3. FOR TERMINATION DETAILS REFER TO xxxxxx-E-DR-xxxx-xx
4. VSD CABLE CONTAINS 3 EARTHS; ONLY ONE SHOWN FOR CLARITY
5. LOS SHALL BE BLACK
6. EMC GLANDS TO BE USED WHERE REQUIRED BY MANUFACTURERS
7. RUNNING AND FAULT INDICATION DISPLAYED ON HMI
8. VSD TO INCLUDE
 - SAFE TORQUE OFF
 - 24VDC BACKUP CARD
 - PROFINET CARD
 - PT100/PT1000 SENSOR INPUT

LEGEND

- EQUIPMENT TERMINAL
- ▲ MCC POWER TERMINAL - WITHIN CELL/SECTION/CABLE ZONE
- ⊙ MCC CONTROL TERMINAL - WITHIN CELL/SECTION/CABLE ZONE
- LCS/FIELD DEVICE/JUNCTION BOX TERMINAL
- ⊕ PLC MARSHALLING PANEL TERMINAL
- ⊖ ELV DISCONNECT TERMINAL
- ELV FUSED DISCONNECT TERMINAL
- WIRING EXTERNAL TO MCC

A3	0	03.06.24	ISSUED FOR USE	YV	TGS	TGS	TGS	UNITYWATER
	REV	DATE	DESCRIPTION OF CHANGE	DRAWN	DESIGNED	REVIEWED	APPROVED	COMPANY



Unitywater
 STANDARD ELECTRICAL DRAWING
 VSD - NETWORK - DANFOSS - WITH DISCONNECT
 VFD MOTOR SCHEMATICS

PROJECT NUMBER	IFXXXXXX
REVISION DATE	03.06.24
DISCIPLINE CODE	E
DRAWING NO.	UWDSTD-E-DR-9006-11