

DESIGN NOTES (remove after design completed):

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


NOTES:

- WIRE NUMBERS TO BE PREFIXED BY MTRxxxx-
- DEVICE NUMBERS TO BE SUFFIXED BY THE MOTOR NUMER (xxxx)
- FOR TERMINATION DETAILS REFER TO xxxxxx-E-DR-xxxx-xx
- VSD CABLE CONTAINS 3 EARTHS; ONLY ONE SHOWN FOR CLARITY
- LOS SHALL BE BLACK
- EMC GLANDS TO BE USED WHERE REQUIRED BY MANUFACTURERS
- RUNNING AND FAULT INDICATION DISPLAYED ON HMI
- 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

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|-----------|-----|----------|--|-------|----------|----------|----------|------------|
| A3 | 1 | 03.06.24 | TIDY UP TO ALIGN TO OTHER DRAWINGS & UPDATED DRAWING TITLE | YV | TGS | TGS | TGS | UNITYWATER |
| | 0 | 20.09.23 | ISSUED FOR USE | YV | TGS | TGS | TGS | UNITYWATER |
| | REV | DATE | DESCRIPTION OF CHANGE | DRAWN | DESIGNED | REVIEWED | APPROVED | COMPANY |



Unitywater

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STANDARD ELECTRICAL DRAWING

VSD - NETWORK - DANFOSS - NO DISCONNECT

VFD MOTOR SCHEMATICS

| | |
|-----------------|---------------------|
| PROJECT NUMBER | IF XXXXXX |
| REVISION DATE | 03.06.24 |
| DISCIPLINE CODE | E |
| DRAWING NO. | UWDSTD-E-DR-9006-12 |