



- NOTE 1: DRIVE ALARM OPENS ON FAULT.
- NOTE 2: AUTO - MAN KEY SWITCH (KEY REMOVABLE IN AUTO POSITION ONLY).
- NOTE 3:A: IF ONLY 1 CABLE IS PROVIDED FOR SEAL FAIL THEN EARTH S1.
- NOTE 3:B: IF PROPRIETARY MOTOR PROTECTION UNITS ARE INSTALLED REMOVE BRIDGING LINK TB1-X5 & TB1-X6 AND TB1-X7 & TB1-X8. SEAL AND THERMAL INDICATION MUST BE INTERFACED TO K255 AND K259. SEAL AND THERMISTOR RELAYS REPLACED WITH OMRON G2R24-SNDI. IGNORE T1, T2, S1 & S2.
- NOTE 4: SPARE
- NOTE 5: AUXILIARY CONTACT NOT USED WHERE MODBUS CONNECTION TO CIRCUIT BREAKER IS PRESENT.
- NOTE 6: FOR RJ45 TERMINATIONS REFER TO SD-820-11.
- NOTE 7: USE TERMINALS 05 AND 06 FOR THERMISTOR INTERLOCK.
- NOTE 8: PHOENIX CONTACTS: 11-C, 12-NC, 14-NO.

| ISSUE | AMENDMENT DETAILS | Drawn | Checked | Approved | Date |
|-------|---|-------|---------|----------|----------|
| 00 | ORIGINAL ISSUE | | | D.F | 3.8.12 |
| 01 | AMENDED ISSUE RELEASED FOR PUBLICATION | E.K | P.B | D.F | 13.08.13 |
| 02 | ADDITION OF RUNNING RELAY AND ASSOCIATED CONTACTS | E.K | P.B | D.F | 27.04.15 |
| 03 | REMOVED WELL WASH | C.N | P.B | D.F | 05.12.18 |
| 04 | UPDATED OMRON RELAY PART NO IN NOTES | P.B | M.G | D.F | 14.02.19 |
| 05 | UPDATED VSD MODBUS REFERENCE NUMBERING | P.B | D.R | J.G | 29.07.20 |

ELECTRICAL UNIT

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SCALE NTS

ACAD FILE No.:

PROJECT: SEWAGE PUMP STATIONS
ELECTRICAL STANDARD DRAWINGS

PLAN TITLE: PUMP No. 1. SOFT STARTER >15.5kW
POWER AND CONTROL (ATS48)

DRAWING NUMBER: SD-820A/02

SHEET 02 OF 19
REV 05
DATE 29/07/2020