**Autotransformer Medium Voltage Fire Pump Controller**

**Wiring Diagram:**

- **L1** to **L2** to **L3** from **3 Ø A.C. SUPPLY**
- **GROUNDED SERVICE CONDUCTOR** and/or **GROUNDING ELECTRODE CONDUCTOR**
- **TO LOW ZONE PUMP START CIRCUIT**
- **TO MOTOR OVERLOAD REMOTE ALARM**
- **TO PUMP RUNNING REMOTE ALARM**
- **TO PUMP POWER FAILURE REMOTE ALARM (Note 3)**
- **TO PHASE SEQUENCE REMOTE ALARM**
- **TERMINALS on ECH-TB Customer Terminal Panel**
- **MAY BE FACTORY OR FIELD WIRING**
- **PRESSURE TRANSUCER (IF USED)**
- **PRESSURE SWITCH (IF USED)**

**Notes:**

1) Deluge Valve Maintained Contact(s) & Remote Start (Momentary) Contacts are used when Option H is supplied. Open to start Pump.
2) Lockout contact(s), used when Mod. 21 is provided. CLOSE to LOCKOUT PUMP
3) Power Failure Alarm (PAR) contacts (terminals 8, 9, 10) Shown in Alarm State. All others shown Normal (contacts 5, 6, 8, & 9, 11 & 12, 14 & 15, 17 & 18, and 20 & 21) Close to Alarm (All Relays Shown De-energized)
4) 115 VAC Input Branch Circuit (50 VA Load) used when Option "K" is supplied.
5) All contact ratings: 5 A Amp Max at 115 VAC or 28 VDC

**Master Control Systems Inc.**

**LAKE BLUFF, ILLINOIS U.S.A.**

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