MCVA Variable Speed Fire Pump Controller

Notes:
1) Deluge Valve (maintained) contact(s) & Remote Start (momentary) contact(s) OPEN to start pump.
2) Lockout contact(s) CLOSE to lockout pump.
3) Power Failure Alarm (PAR) contacts shown in Alarm State. All others shown Normal.

Controller Suitable for Use as Service Equipment

3Ø A.C. Source
(SEQUENCE ABC)

IS
ISOLATING SWITCH

MASTER Electric
Fire Pump Controller

TB1B

16
SYSTEM TBVL
REMOTE ALARM

10
PUMP DEMAND
OR LOW ZONE
START CIRCUIT

* - Contacts CLOSE to ALARM  ○ - Contacts OPEN to ALARM
Alarm contact rating (Resistive): 2 Amps @ 30VDC,
1 Amp @ 125 VAC

TB1A

SP1/SPE CHASSIS

MAIN CONTACOR

BP

TO 1Ø A.C.
SUPERVISORY
POWER SOURCE

MOTOR

O.C.
(30C)
REMOTE START
(Note 1)
LOCKOUT CONTACT
(Note 2)

PUMP RUNNING
REMOTE ALARM

PUMP RUNNING
REMOTE ALARM

AC POWER FAIL
REMOTE ALARM
(Note 3)

PHASE SEQUENCE
REMOTE ALARM

MASTER Control Systems Inc.
LAKE BLUFF, ILLINOIS U.S.A.

MODEL MCVA EXTERNAL WIRING DIAGRAM
ACROSS-THE-LINE BYPASS - G4

UL
LISTED

FM
APPROVED

Date 10 Jan 2014
Drawing 20121 Issue 2