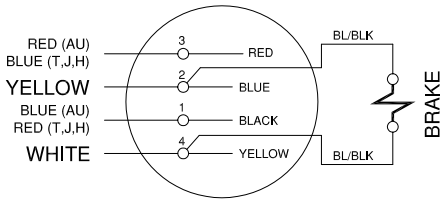


MOTOR WIRING CHART

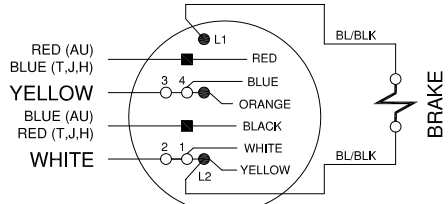
DOCUMENT NO. 113108
CDO OPERATORS WITH CDO-MCB MOTOR CONTROL SYSTEM

A.O. SMITH SINGLE VOLTAGE - 115 VAC, 1P MOTOR



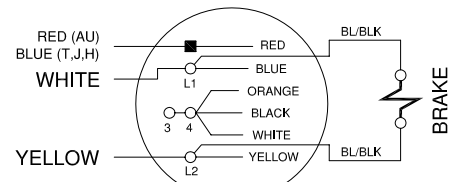
TO REVERSE MOTOR, SWITCH LEADS 1 & 3

A.O. SMITH - DUAL VOLTAGE MOTOR WIRED FOR 115 VAC, 1P



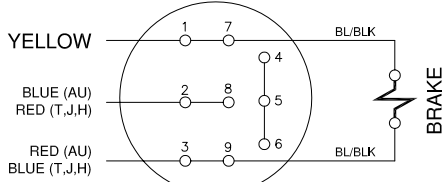
■ Wire Nut Connection
TO REVERSE MOTOR, SWITCH LEADS 3/4 & 2/1

A.O. SMITH - DUAL VOLTAGE MOTOR WIRED FOR 208/230 VAC, 1P



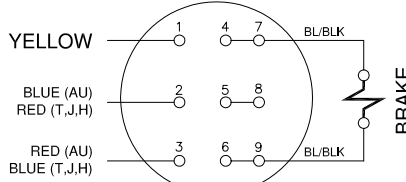
■ Wire Nut Connection
TO REVERSE MOTOR, SWITCH LEADS L1 & L2

208/230 VOLTS, 3 PHASE DUAL VOLTAGE MOTOR



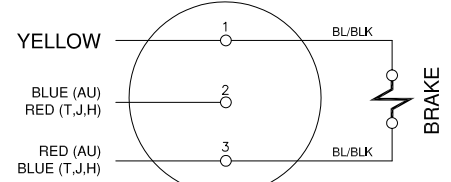
TO REVERSE MOTOR DIRECTION, SWITCH ANY TWO INCOMING LEADS.

460 VOLTS, 3 PHASE DUAL VOLTAGE MOTOR



TO REVERSE MOTOR DIRECTION, SWITCH ANY TWO INCOMING LEADS.

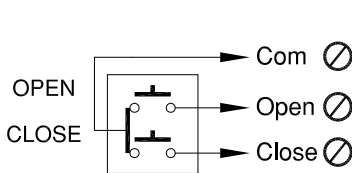
575 VOLTS, 3 PHASE SINGLE VOLTAGE MOTOR



TO REVERSE MOTOR DIRECTION, SWITCH ANY TWO INCOMING LEADS.

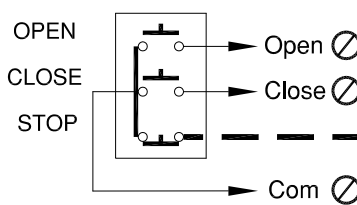
OPTIONAL CONTROL WIRING

2 BUTTON STATION OR KEY SWITCH

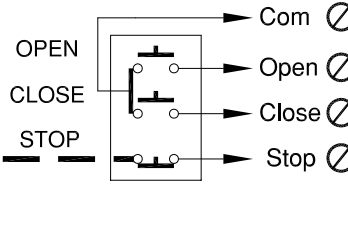


MULTIPLE CONTROL STATIONS

Station #1

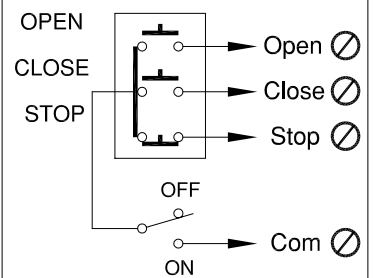


Station #2 (See Note)



NOTE: Internal bar jumper between close and stop must be removed on 2nd and any subsequent 3 button stations.

KEYED LOCK-OUT



Above assumes opener configured for normally closed stop circuit (see instruction manual).
Use minimum 22 gage copper wire for control wiring.

QUALIFIED INSTALLER MUST ADJUST LIMITS UPON COMPLETION OF WIRING AS FOLLOWS:

1. Remove power from operator.
2. Remove cover from electrical enclosure.
3. Depress limit nut retaining bracket.
4. Turn limit nuts on shaft to adjust travel. Turning nut toward center of shaft increases travel, turning nut toward control box side decreases travel.
5. After nut is moved to desired position, release retaining bracket and ensure it engages a slot in each limit nut.
6. Restore power to the operator.
7. Operate door to check for shut off position.
8. Re-adjust as necessary following steps 1 to 7 to bring door to the proper stopped position.
9. Reinstall cover on electrical enclosure.

