

CIRCUIT IS DRAWN FOR A VALVE IN THE FULLY CLOSED POSITION WITH POWER OFF.

CIRCUIT DIAGRAM No - REV

1614X90-05

TRANSFORMER TAPPING OPTIONS

Pt No 33653 (TYPE AA)

TAP	NOM 50/60HZ	50HZ	60HZ
W	220/230	176-242	198-259
X	380/400	304-418	342-446
Y	415/420	332-457	374-487
Z	440/460	352-484	396-517

FUSE QF2 - 250mA ANTI-SURGE
Pt No 33642 (TYPE BB)

TAP	NOM 50/60HZ	50HZ	60HZ
W	346/380	285-388	321-419
X	480/500	406-552	432-564
Y	240/240	192-261	216-282
Z*	550/575	445-605	501-654

FUSE QF2 - 250mA ANTI-SURGE
* 150mA ANTI-SURGE
Pt No 31836 (TYPE C)

TAP	NOM 50/60HZ	50HZ	60HZ
W	660/660	534-726	600-726

FUSE QF2 - 150mA ANTI-SURGE
ALL TRANSFORMER TYPES - QF4 500mA SLOW BLOW
WHEN FITTED QF1 AND QF3 WILL BE AS QF2.

MAX EXTERNAL LOAD ON TERMINALS 4 & 5 TO BE EVA.

O - OPEN
C - CLOSE
C1 & C2 - CONTACTOR COILS.
T/L/S - TORQUE/LIMITSWITCH
AS1 - AUXILIARY LIMIT SWITCH MAKE CONTACT AT END OF TRAVEL
AS2 - AUXILIARY LIMIT SWITCH BREAK CONTACT AT END OF TRAVEL
WIRES ARE IDENTIFIED AT EACH END BY TERMINAL No. OR BY WIRE No. SHOWN

FOR TYPICAL REMOTE CONTROL INDICATING, MONITORING AND ALARM CIRCUITS SEE PUBLICATION AE4/2
CONTROL SIGNAL THRESHOLD VOLTAGES MAXIMUM 'OFF' 3V.
MINIMUM CONTROL SIGNAL 300mS.
E. S. D. CONTROL SIGNAL VOLTAGE MUST BE EQUAL TO OR GREATER THAN ALL OTHER CONTROL SIGNAL VOLTAGES.

TORQUE AND LIMIT SWITCH OPERATION

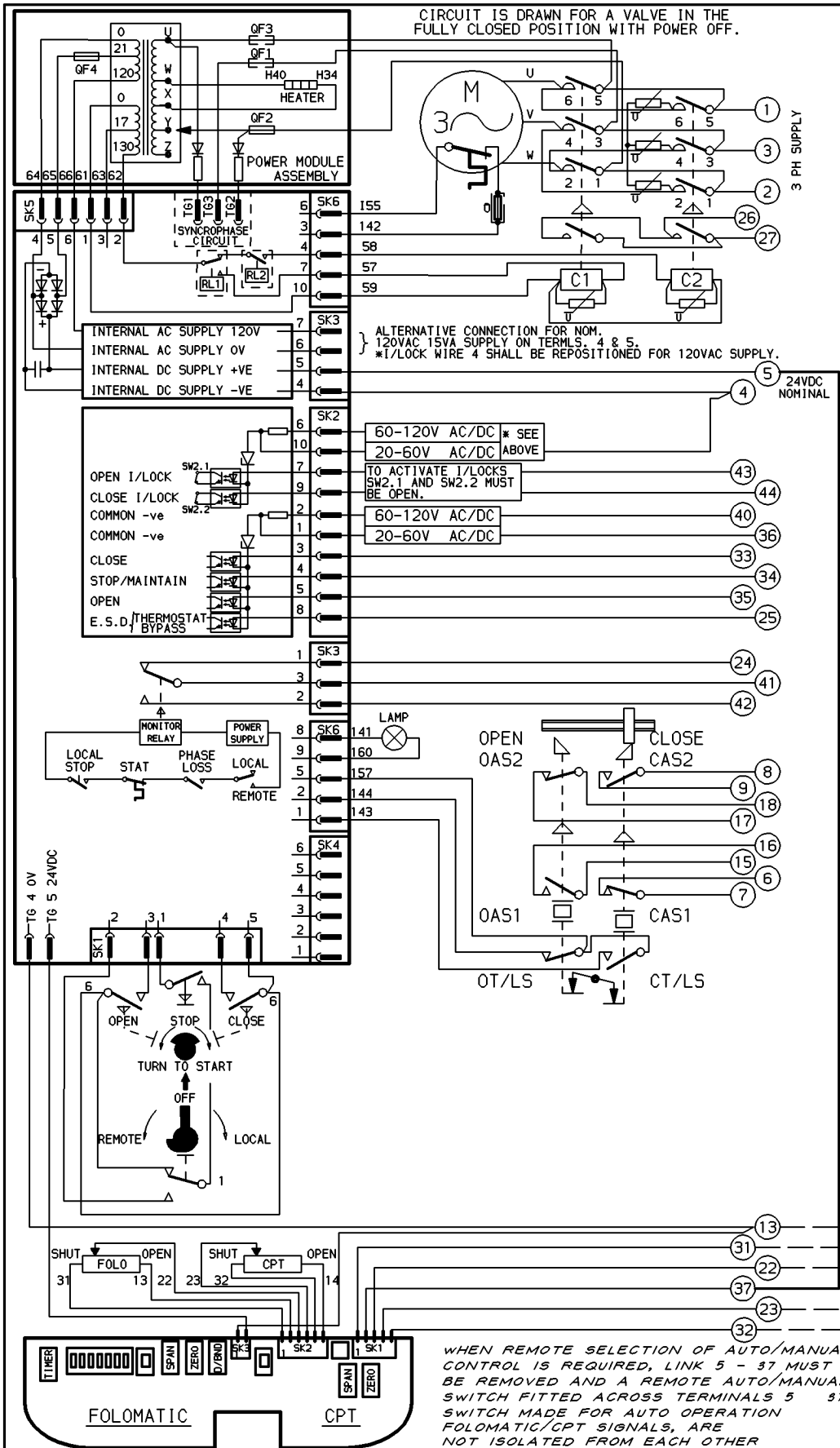
SWITCH	OPEN	INTER	SHUT
OT/LS			
CT/LS			
CAS1			
CAS2			
OAS1			
OAS2			

INDICATES SWITCH MADE

THERMAL FUSE ATEX APPROVED UNITS ONLY.

ANALOGUE INPUTS (FOR DETAILS, SEE ROTORK PUBLICATION AE4/0.1)

MANUAL/AUTO. -ve (+ve)

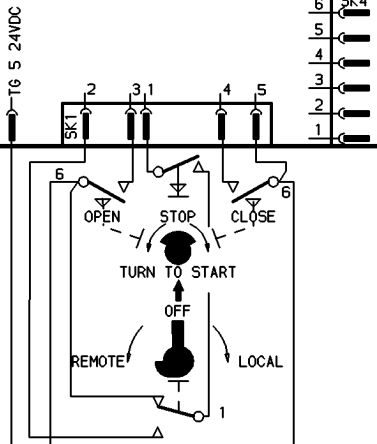


ALTERNATIVE CONNECTION FOR NOM. 120VAC 15VA SUPPLY ON TERMS. 4 & 5. *I/LOCK WIRE 4 SHALL BE REPOSITIONED FOR 120VAC SUPPLY.

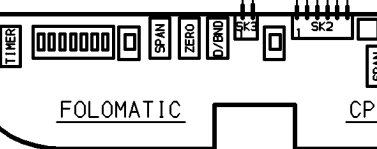
INTERNAL AC SUPPLY 120V
INTERNAL AC SUPPLY 0V
INTERNAL DC SUPPLY +VE
INTERNAL DC SUPPLY -VE

OPEN I/LOCK SW2.1
CLOSE I/LOCK SW2.2
COMMON -ve
COMMON -ve
CLOSE
STOP/MAINTAIN
OPEN
E. S. D. THERMOSTAT BYPASS

LOCAL STOP STAT PHASE LOSS LOCAL REMOTE



SHUT FOLO OPEN SHUT CPT OPEN



WHEN REMOTE SELECTION OF AUTO/MANUAL CONTROL IS REQUIRED, LINK 5 - 37 MUST BE REMOVED AND A REMOTE AUTO/MANUAL SWITCH FITTED ACROSS TERMINALS 5 37 SWITCH MADE FOR AUTO OPERATION FOLOMATIC/CPT SIGNALS, ARE NOT ISOLATED FROM EACH OTHER

No	DATE	REVISION
05	051103 P.J.W	SIMILAR TO 1614X90 JOB No. --- ATEX THERMAL FUSE ADDED CHECKED D.A



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ROTORK CONTROLS INC
ROCHESTER, NY 14624.
tel (716) 328-1550

DRAWN T.A
DATE 190891
CHECKED K.S
DATE 190891

1600 MK5 + 2 POTS+FOLO +CPT.
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