CIRCUIT DRAWN WITH POWER SUPPLY OFF

M 3~

U
V
W
MOTOR

SSS MODULE

SK1
SK3
26 WAY
SK15

IN
3 W
1 U
2 V

2
3
1
E

3 PHASE SUPPLY

FS1
U W X Y Z
PS1

TRANSFORMER TAPPING OPTIONS	
Tap	Nominal 50/60Hz
TYPE 1	
W	220/230
X	380/400
Y	400,415/420
Z	440/460
FUSE FS1=250mA ANTI-SURGE	
TYPE 2	
W	346/380
X	480/500
Y	240/240
Z	550/575
FUSE FS1=250mA ANTI-SURGE	

SK2
0VAC — 1
120VAC — 4
0VDC — 3
24VDC — 6

4
5
24VDC NOMINAL SUPPLY (OUTPUT)

SK14
0VDC — 1
24VDC — 2
INTERNAL SUPPLY FOR AUX POWER PCB

REFER TO SHEET 2 FOR NOTES & OPTION PCB'S IF FITTED

THE ACTUATOR MUST BE PROTECTED USING SUITABLY RATED HIGH SPEED SEMI-CONDUCTOR FUSES ON THE INCOMING SUPPLY.
SUGGESTED FUESES :-
IQ10-20:10 Amp FERRAZ G330010
IQ25-35:20 Amp FERRAZ K330013
ALTERNATIVES =
IQ10-20:10 Amp SIBA 50-179-06/10A
IQ25-35:20 Amp SIBA 50-179-06/20A
OR EQUIVALENT PROTECTIVE DEVICE.

SK13
26 WAY
SK13

TORQUE SENSOR

POSITION SENSOR — 10 WAY

BATTERY — -
FS2 (IF FITTED) 100mA — +

50%
CLOSED
OPEN
REMOTE
STOP
LOCAL

SK3
6
5
4
3
2
1

SK8
SK9
4
1

SK6
18 WAY

MONITOR RELAY

MAKE AT FULLY SHUT — S1
MAKE AT FULLY OPEN — S2
BREAK AT FULLY SHUT — S3
BREAK AT FULLY OPEN — S4

SK14
1 — 42
3 — 43
2 — 44

SK7
1 — 6
8 — 7
2 — 8
7 — 9
3 — 10
6 — 11
4 — 12
5 — 13

SK4
CLOSE — 9 — 33
STOP/ MAINTAIN — 10 — 34
OPEN — 8 — 35
COMMON -VE — 1 — 36
ESD — 12 — 25
OPEN INTERLOCK — 13 — 37
CLOSE INTERLOCK — 14 — 38
COMMON -VE — 5 — 31

SK1 SLOT A
SK2 SLOT B

Iss	Date	Chkd	Revision Details
1	240413	JC1	First Issue.
2	260413	PJW	NOTE CORRECTED
3	230614	MR	400v added to type 1 tapping Y. Note added to sheet 2 note 1.
4	130616	PW	Updated notes on page 2.

www.rotork.com
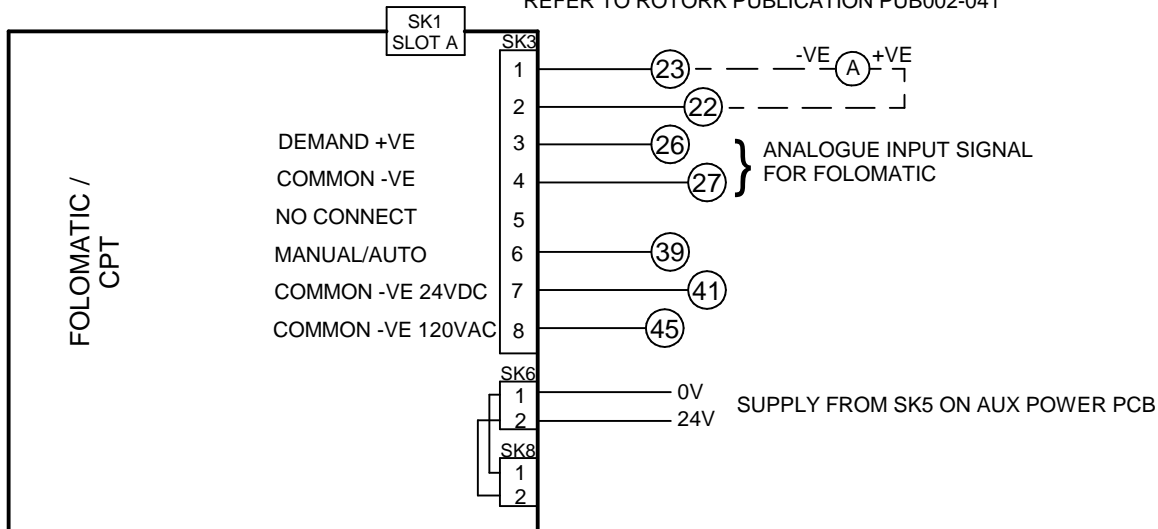
ROTORK CONTROLS LTD
BATH, BA1 3JQ
ENGLAND
Tel:01225-733200

ROTORK CONTROLS INC
ROCHESTER
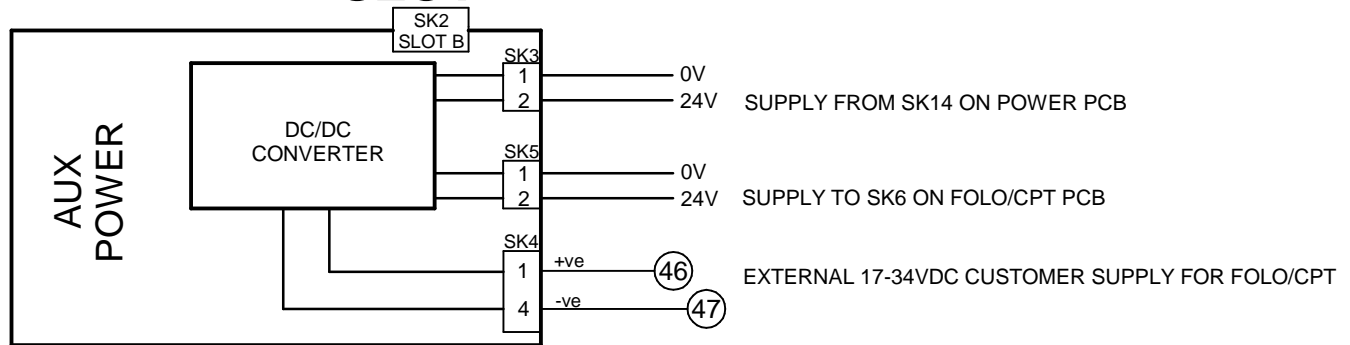NY 14624, USA
Tel:585-247-2304

IQM + FOLOMATIC + CPT + AUX POWER

Drawn by: PJW
Date : 240413
Base WD: 203B1000
Job No : - -
MI No : --

Circuit Diagram Number
203B1000
B1 C1 B2 C2

Issue No **4**

Sheet **1** of 2

IQ3

SLOT A

FOR MANUAL/AUTO CONNECTIONS AND
DETAILS OF FOLOMATIC/CPT FUNCTIONS
REFER TO ROTORK PUBLICATION PUB002-041

**SK1
SLOT A**

FOLOMATIC / CPT

SK3

	1
	2
DEMAND +VE	3
COMMON -VE	4
NO CONNECT	5
MANUAL/AUTO	6
COMMON -VE 24VDC	7
COMMON -VE 120VAC	8

(23) ── — — -VE (A) +VE ─┐
(22) ── — — — — — ┘

(26) } ANALOGUE INPUT SIGNAL
(27) } FOR FOLOMATIC

(39)
(41)
(45)

SK6
1 — 0V
2 — 24V   SUPPLY FROM SK5 ON AUX POWER PCB
SK8
1
2

SLOT B

**SK2
SLOT B**

AUX POWER

DC/DC
CONVERTER

SK3
1 — 0V
2 — 24V   SUPPLY FROM SK14 ON POWER PCB

SK5
1 — 0V
2 — 24V   SUPPLY TO SK6 ON FOLO/CPT PCB

SK4
1 +ve (46)   EXTERNAL 17-34VDC CUSTOMER SUPPLY FOR FOLO/CPT
4 -ve (47)

NOTES

1.FUSES:
-PS1 is a self-resetting fuse.
-Refer to publication PUB002-039 for approved fuses FS1 and FS2.
-Actuator rated voltage specified on nameplate. Voltage tolerance +/-10%, applies for rated torque performance; duty cycle is not guaranteed.

2.REMOTE CONTROL:
-For typical remote control circuits refer to:
  -RWS indicated or PUB002-041.
-For DC and AC control, connect –ve/0V to terminal 36.
-(For negative switch / positive common, refer to RWS indicated).
-Control signal threshold voltages:
  -DC: "on" ≥16Vdc / "off" ≤8Vdc, max 60Vdc.
-Control signal duration to be 100ms minimum.
-Maximum current drawn from remote control signals is:
  -8mA at 24Vdc .
-Supply provided on terminals 4 & 5:
  -Intended for remote control.
  -Max external load 5W at 24Vdc

3.INDICATION:
-For typical position, status and alarm indication see PUB002-041.
-"S" contacts are user configurable and are shown in their default setting.
-Refer to PUB002-040 for functions and configuration instructions.
-Monitor Relay indicates actuator availability for remote control (shown "unavailable"). It can be configured to exclude local/remote selection.
-Refer to PUB002-040 for monitored functions and configuration instructions.
-Voltage applied to indication contacts must not exceed 150Vac
-Individual Switch current must not exceed 3.5A inductive, 5A resistive and no more than 8A in total for all 4 contacts.

4.BATTERY:
-Battery maintains local and remote "S" contact indication only.
-Refer to installation manual for approved replacement battery types.

Circuit Diagram Number	Issue No	Sheet
203B1000	4	2 of 2

IQ3