

FOR TYPICAL REMOTE CONTROL DETAILS, SEE DOCUMENT **RWS130**

TRANSFORMER TAPPING OPTIONS	
Tap	Nominal 50/60Hz
TYPE 1	
W	220/230
X	380/400
Y	400,415/420
Z	440/460
FUSE FS 1=250mA ANTI-SURGE	
TYPE 2	
W	346/380
X	480/500
Y	240/240
Z	550/575
FUSE FS 1=250mA ANTI-SURGE	
TYPE 3	
X	660/660-690
Y	690/-
FUSE FS 1=150mA ANTI-SURGE	

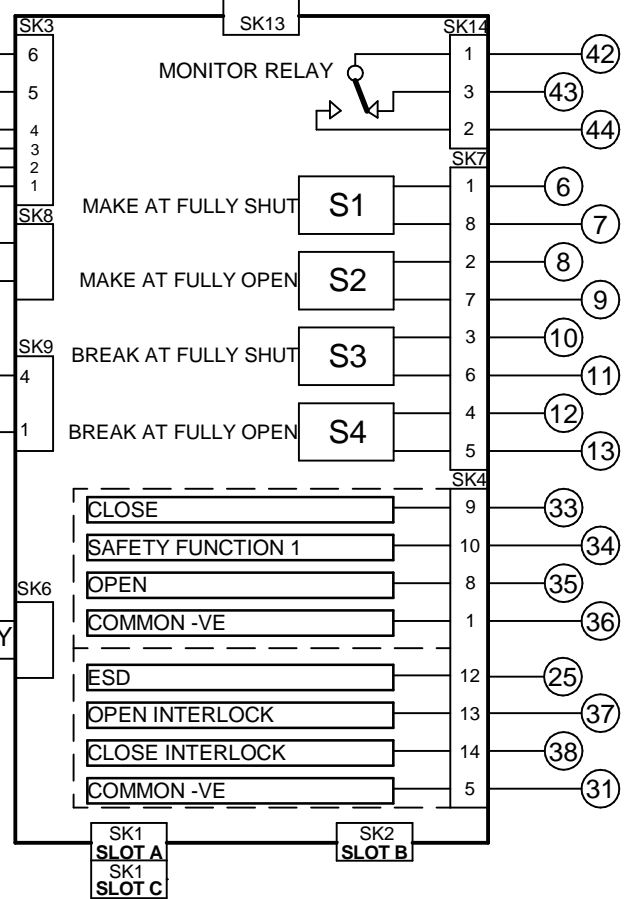
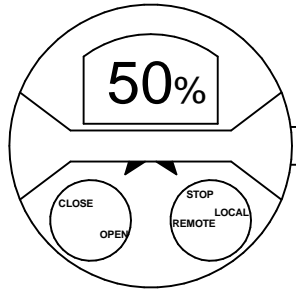
TRANSISTOR SWITCHING FOR 24VDC CONTACTORS (IQ10-35) RELAYS ONLY FITTED WHEN 120VAC CONTACTOR IS FITTED FOR IQ40,70,90,91 & 95

TORQUE SENSOR

POSITION SENSOR 10 WAY

BATTERY -

FS2 (IF FITTED) 100mA +



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

SIL NOTES (Superseeding Sheet 2 Notes)

Independently Certified to IEC61508-2 (2010) as an element suitable for use in safety related systems up to and including SIL 2 (1oo1) and SIL 3 (1oo2). Must be installed, commissioned, tested and operated fully in accordance with the Safety Manual. Refer to SIL Safety Manual - PUB002-110

SIL STAYPUT (Safety Function 1): The control signal must be applied to terminal 34 before an open or closed control signal will operate the actuator. This is a high demand safety function, actuator will not move spuriously. The SIL STAYPUT function is not applicable for LOCAL control.

Iss	Date	Chkd	Revision Details
1	091117	JC1	First Issue.
2	240718	PJW	PROFIBUS PUB SHT2 UPDATED WAS PUB008-005
3	260918	DH	'TERMINATION' removed from SW1 on Sht 2.
4	041120	PJW	'TERMINATION' removed from SW2 on Sht 2.

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IQ SIL STAYPUT+CPT+EXTRA RELAYS S5-S8+DUAL CHANNEL PROFIBUS + PROFIBUS DISCONNECT

Drawn by: PJW
Date : 091117
Base WD: 101P3044
Job No : --
MI No : --

Circuit Diagram Number
101P3044

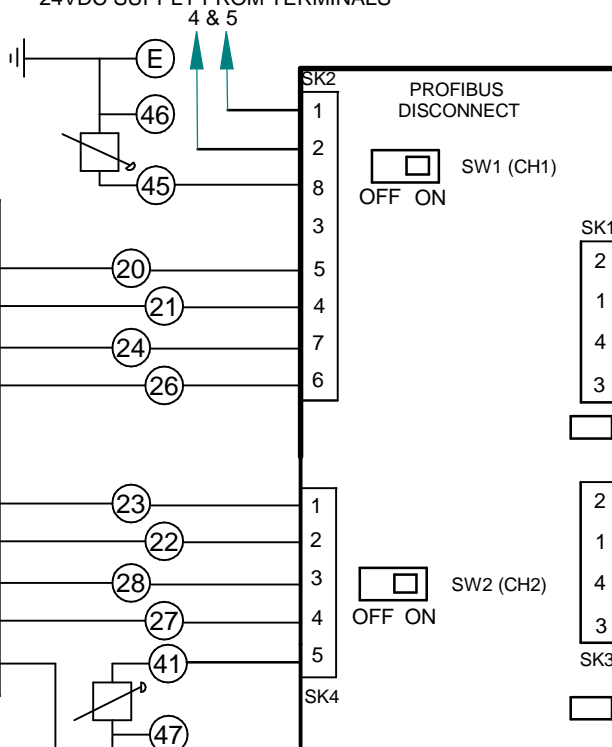
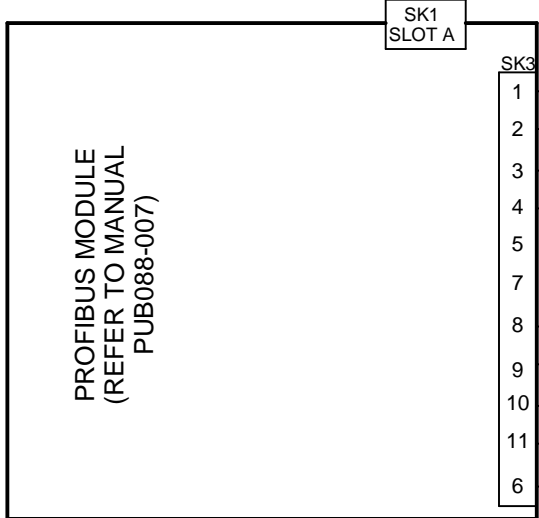
Issue No **4** Sheet **1** of 2

B1|C1|B2|C2|B1|C1|M1|V1

CIRCUIT DRAWN WITH POWER SUPPLY OFF
24VDC SUPPLY FROM TERMINALS
4 & 5

THE SETTING TOOL ENABLES THE PROFIBUS ADDRESS TO BE CONFIGURED.

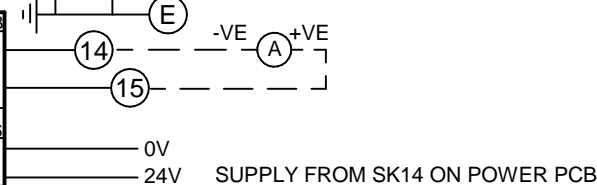
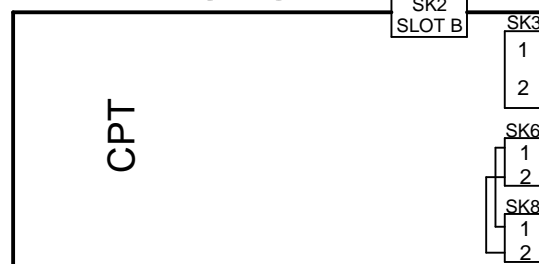
SLOT A



OUTPUT SWITCH SW1 & SW2
OFF - A&B OUT DISCONNECTED
ON - A&B OUT CONNECTED

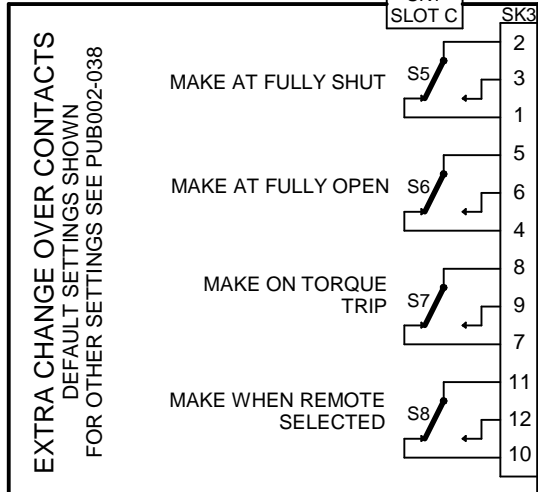
PROFIBUS A = TxD/RxD-N
PROFIBUS B = TxD/RxD-P

SLOT B



FOR DETAILS OF CPT FUNCTIONS
REFER TO ROTORK PUBLICATION PUB002-041

SLOT C



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.
 - AC: "on" ≥60Vac / "off" ≤40Vac, max 120Vac.
- Control signal duration to be 300ms minimum.
- Maximum current drawn from remote control signals is:
 - 8mA at 24Vdc or 12mA at 120Vac.
- Supply provided on terminals 4 & 5:
 - Intended for remote control.
 - Max external load 5W at 24Vdc / 5VA at 120Vac

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.