

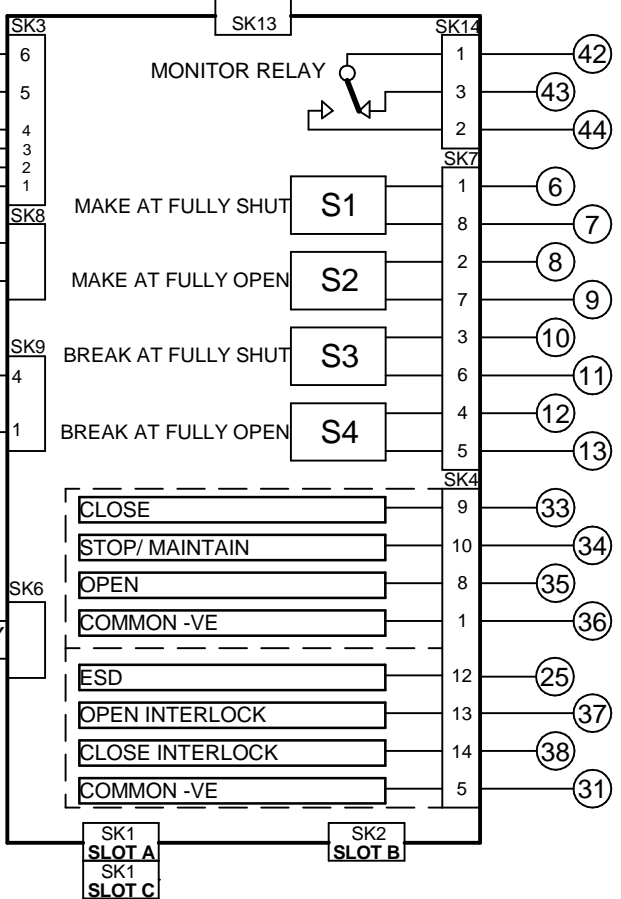
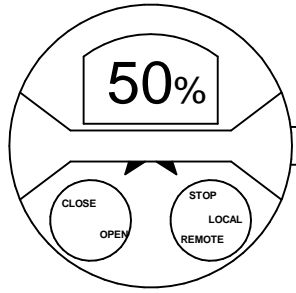
FOR TYPICAL REMOTE CONTROL DETAILS, SEE DOCUMENT **RWS100**

TRANSFORMER TAPPING OPTIONS		
Tap	Nominal 50/60Hz	FUSE FS1
VOLTAGE	50HZ/60HZ	
LOW	115	500mA
HIGH	230	250mA
FUSE FS1 TO BE ANTI SURGE		
CAPACITOR START/RUN (CS/CS2 AND CR/CR2) COMBINATIONS & VALUES VARY WITH SUPPLY VOLTAGE & ACTUATOR SIZE.		

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



FS2 (IF FITTED) 100mA



Iss	Date	Chkd	Revision Details
1	200314	PJW	First Issue
2	180614	MR	Note 1 added to sheet 2
3	160915	VGB	PUB091-004 was PUB091-003.
4	270116	TH	Updated modbus note

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ROTORK CONTROLS LTD BATH, BA1 3JQ ENGLAND Tel:01225-733200

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

IQ SINGLE PHASE + SINGLE CHANNEL MODBUS MODULE + EXT PWR CPT + EX IND RLYS

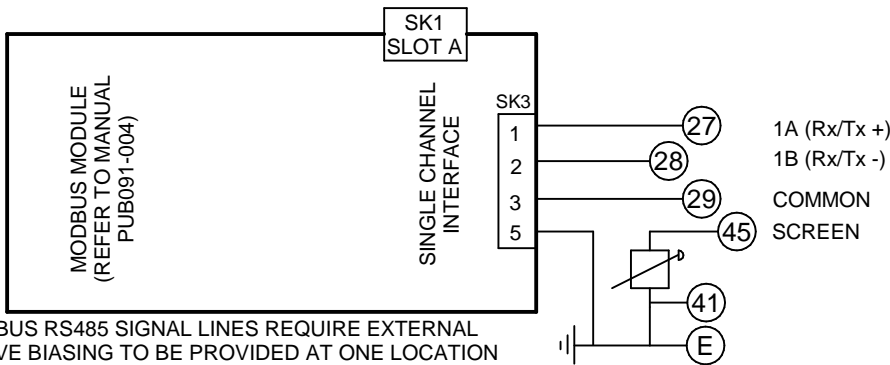
Drawn by: JC1
Date : 200314
Base WD: 125M2010
Job No : _
MI No : MI03216

Circuit Diagram Number **125M2010**

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

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

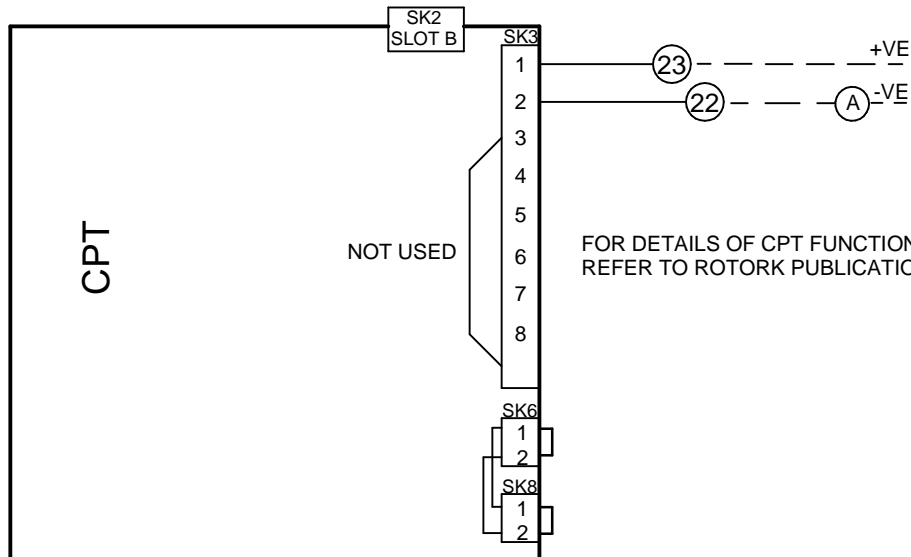
SLOT A



PASSIVE TERMINATION CONTROLLED VIA SETTING IN ACTUATOR CONFIGURATION. REFER TO PUB002-040

MODBUS RS485 SIGNAL LINES REQUIRE EXTERNAL ACTIVE BIASING TO BE PROVIDED AT ONE LOCATION FOR THE WHOLE BUS SEGMENT. REFER TO PUB091-004.

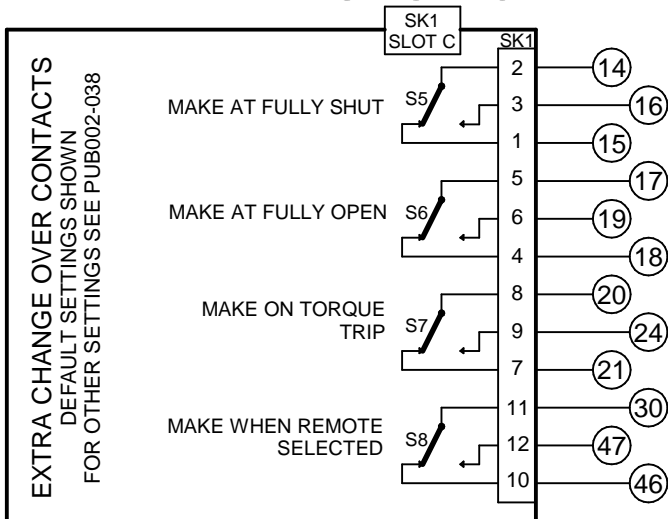
SLOT B



24VDC NOMINAL (20-40VDC MAX)
NOTE - UNDER LOSS OF AC POWER CPT OUTPUT WILL GO TO LESS THAN 1mA

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.