

FOR TYPICAL REMOTE CONTROL DETAILS, SEE DOCUMENT **RWS102**

TRANSFORMER TAPPING OPTIONS		
Tap	Nominal 50/60Hz	FUSE FS1
VOLTAGE	50HZ/60HZ	
LOW	115	500mA
HIGH	230	250mA

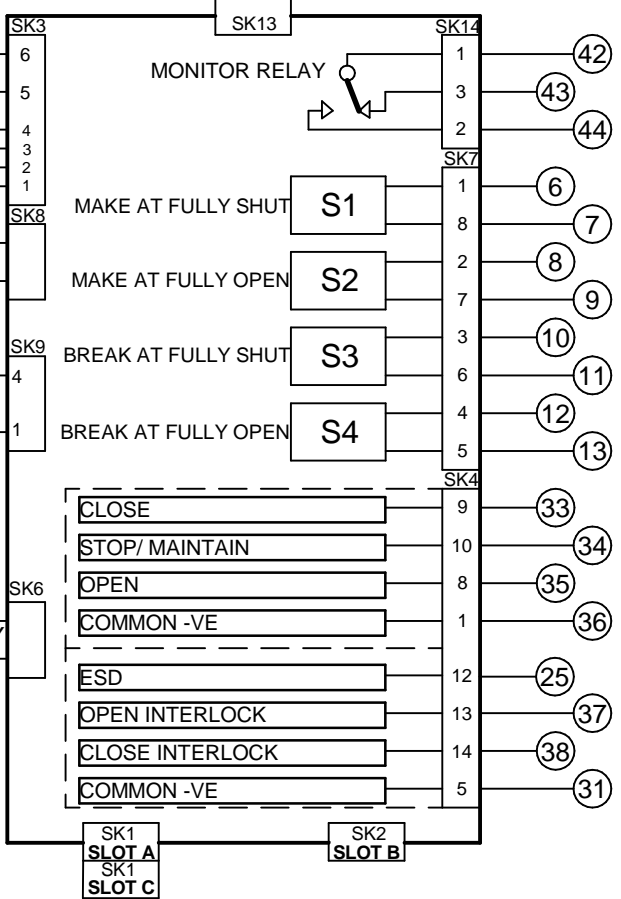
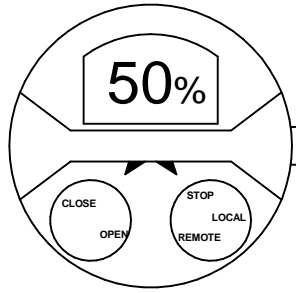
FUSE FS1 TO BE ANTI SURGE

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	090215	PJW	First Issue.
2	140515	WJH	CAN description: "+24 (RHS)" and "0V (RHS)" was "24V (V_CUST)" & "GND" respectively.
3	160915	VGB	PUB091-004 was PUB091-003.
4	270116	TH	Updated modbus note

**www.rotork.com**

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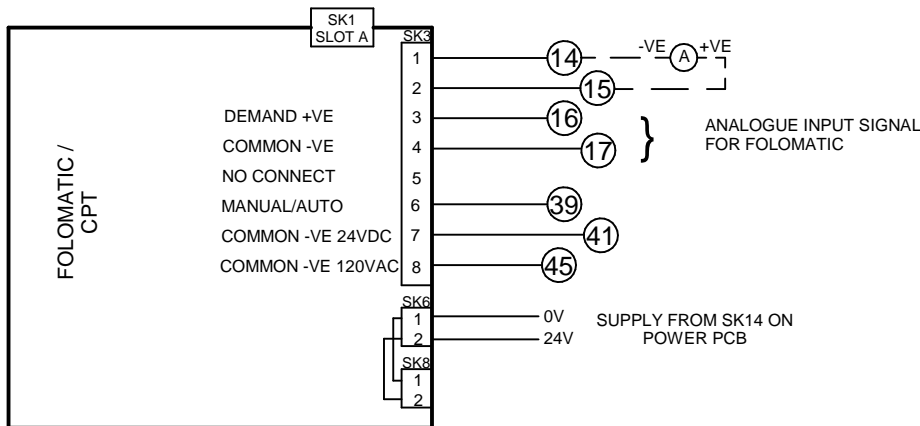
IQ SINGLE PHASE + FOLOMATIC / CPT + MODBUS + RHS

Drawn by: JJB  
Date : 021214  
Base WD: 123M2006  
Job No : --  
MI No : --

Circuit Diagram Number		Issue No	Sheet
<b>123M2006</b>		<b>4</b>	<b>1</b>
B1	C1	B2	C2

1 of 2

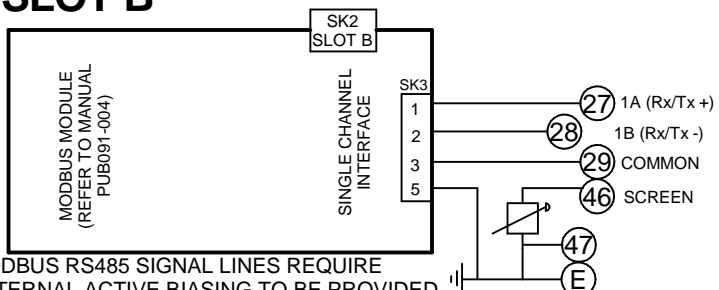
# SLOT A



FOR MANUAL/AUTO CONNECTIONS AND DETAILS OF FOLOMATIC/CPT FUNCTIONS REFER TO ROTORK PUBLICATION PUB002-041 FOR PAKSCAN CONTROL FOLOMATIC MUST BE CONFIGURED FOR MANUAL OPERATION

CARE SHOULD BE TAKEN TO ENSURE THAT CIRCUITS CONNECTED TO TERMINALS 4 OR 5 ARE NOT DIRECTLY OR INDIRECTLY CONNECTED TO GROUND.

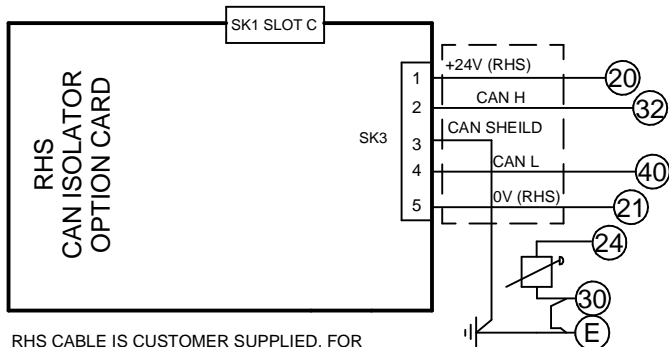
# SLOT B



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

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

# SLOT C



RHS CABLE IS CUSTOMER SUPPLIED, FOR SPECIFICATION SEE PUB002-059. MAXIMUM LENGTH OF CABLE TO BE 100m.

## 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:

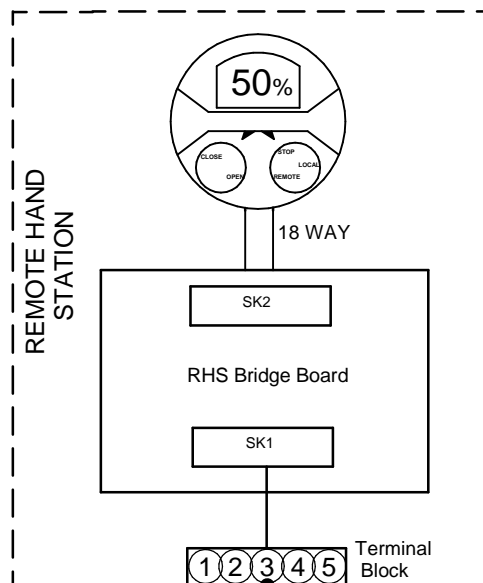
- For typical remote control circuits refer to:
  - RWS indicated or PUB002-041.
- For DC and AC control, connect -ve/0V to terminal 36.
- (For negative switch / positive common, refer to RWS indicated).
- Control signal threshold voltages:
  - DC: "on" ≥16Vdc / "off" ≤8Vdc, max 60Vdc.
  - AC: "on" ≥60Vac / "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.



Actuator Terminal Bung No.	RHS Terminal Block No.	Function
20	1	+24V (RHS)
21	2	0V (RHS)
32	3	CAN H
40	4	CAN L
24	5	SHEILD