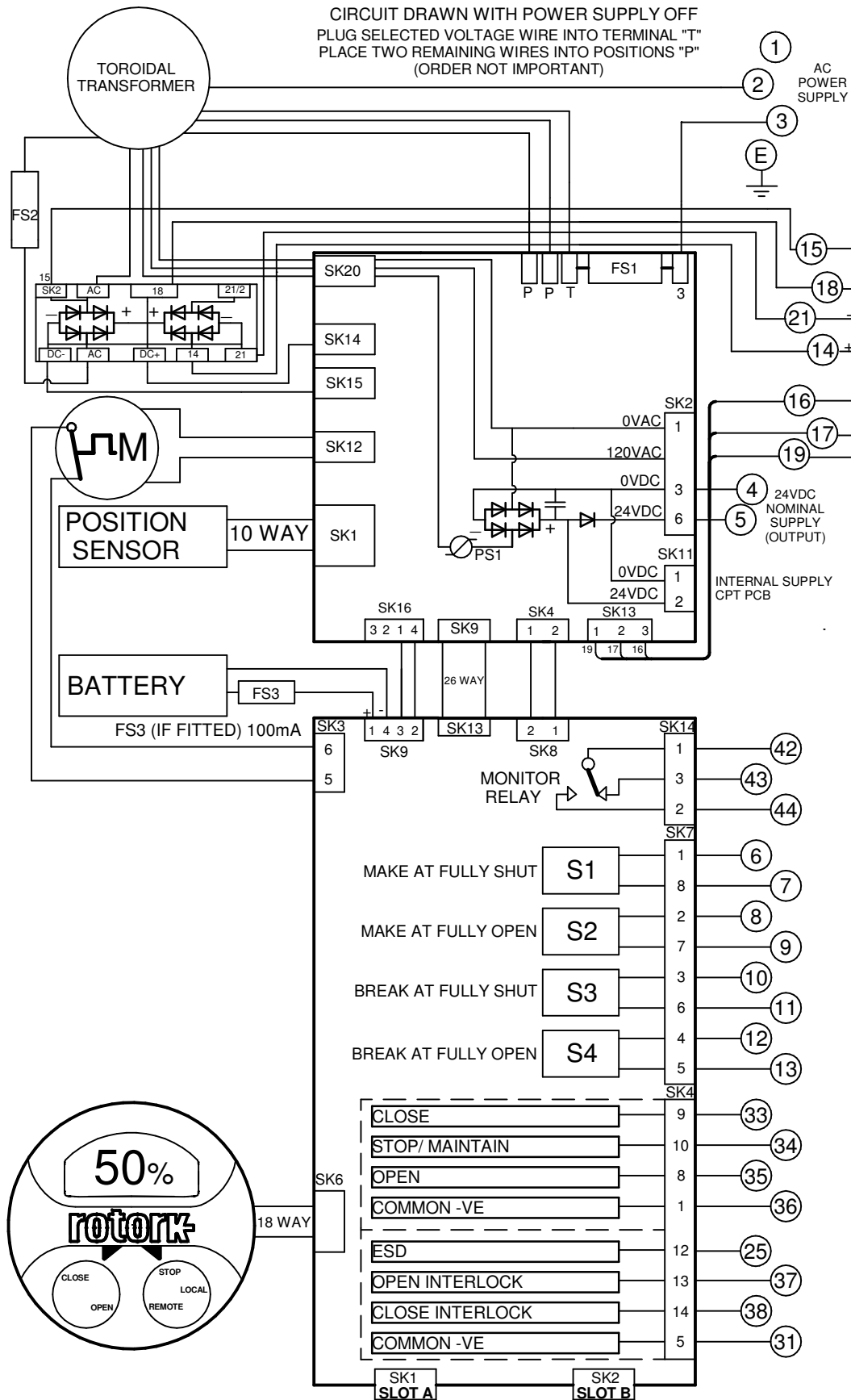


CIRCUIT DRAWN WITH POWER SUPPLY OFF  
 PLUG SELECTED VOLTAGE WIRE INTO TERMINAL "T"  
 PLACE TWO REMAINING WIRES INTO POSITIONS "P"  
 (ORDER NOT IMPORTANT)

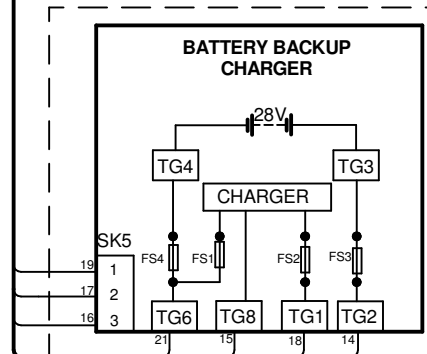
FOR TYPICAL REMOTE CONTROL  
 DETAILS, SEE DOCUMENT  
**RWS100**



TRANSFORMER VOLTAGE OPTIONS:  
 CONNECT CORRESPONDING  
 COLOUR TO "T"

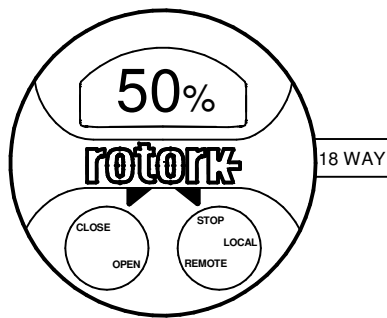
TYPE 1		
GREY	100V	FS1 - 5A ANTISURGE
PURPLE	110V	
BROWN	120V	
TYPE 2		
GREY	200V	FS1 - 2.5A ANTISURGE
PURPLE	230V	
BROWN	270V	
TYPE 3		
GREY	380V	FS1 - 2.0A ANTISURGE
PURPLE	400V	
BROWN	415V	
TYPE 4		
GREY	480V	FS1 - 2.0A ANTISURGE
PURPLE	575V	
BROWN	690V	

FS2 - 20A ATO FAST ACTING ALL TYPES



**BATTERY PACK**  
 FOR DETAILS SEE PUBLICATION PUB002-105  
 FS3, FS4 - 20A ATO FAST ACTING  
 FS1, FS2 - 2A 20mm QUICK BLOW  
 FAILSAFE OPERATION, ON LOSS OF 3-PHASE  
 CUSTOMER SUPPLY ON 4 & 5 IS ALSO LOST.

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



Iss	Date	Chkd	Revision Details
1	180417	JC1	First Issue.
2	191017	JC1	Battery pack publication updated was E120E.
3	110719	PMJ	PUB002-065 WAS -039

[www.rotork.com](http://www.rotork.com)

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

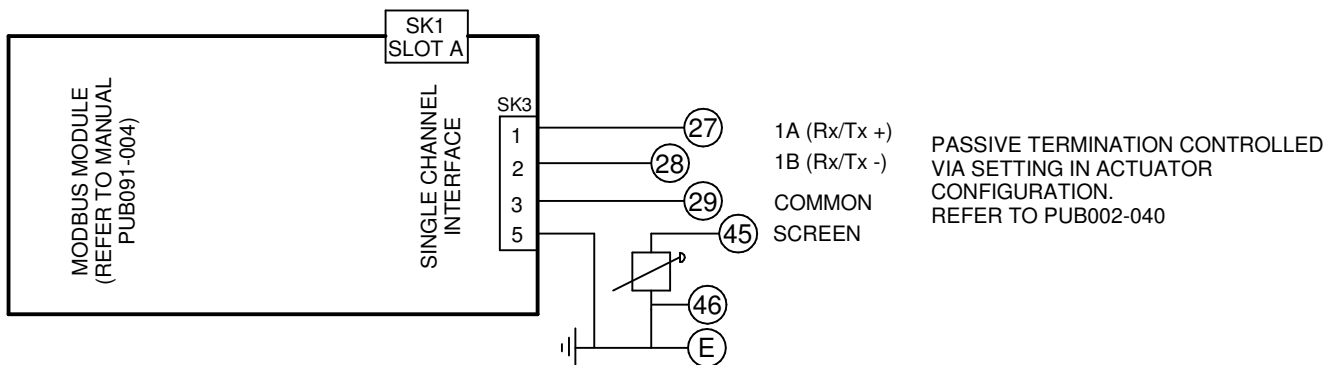
ROTORK CONTROLS INC  
 ROCHESTER  
 NY 14624, USA  
 Tel:585-247-2304

IQTM FAILSAFE BATTERY BACKUP + SINGLE  
 CHANNEL MODBUS MODULE & CPT

Drawn by: PJW  
 Date : 180417  
 Base WD: 491M2000  
 Job No : --  
 MI No : --

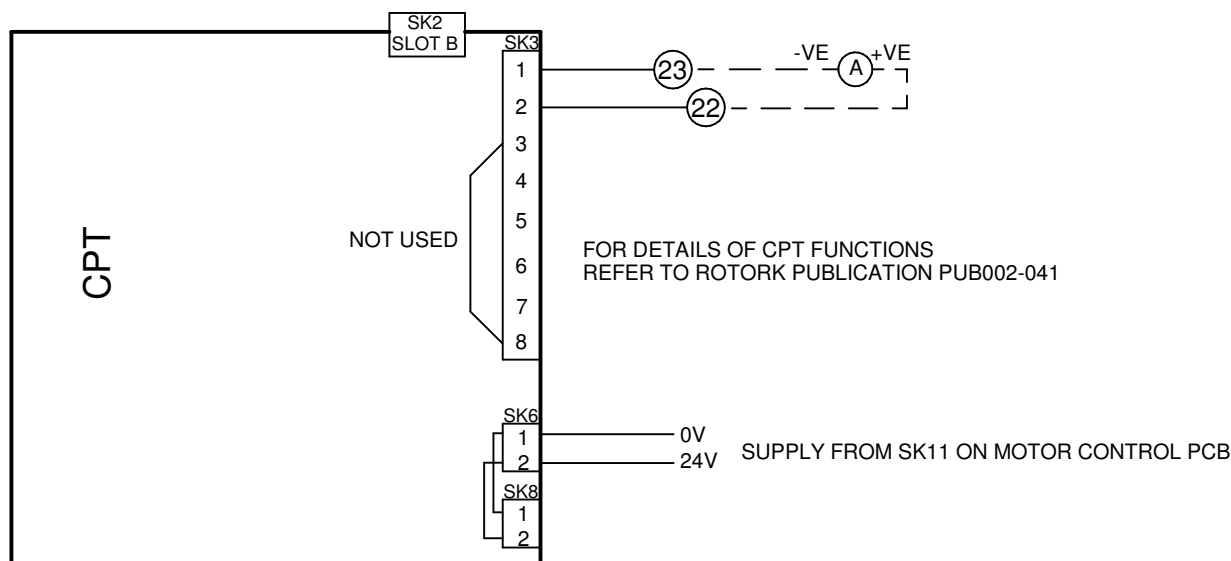
Circuit Diagram Number		Issue No	Sheet
491M2000		3	1
B1	C1	B2	C2

## SLOT A



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



### NOTES

#### 1.FUSES:

- PS1 is a self-resetting fuse.
- Refer to publication PUB002-065 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 control connect -ve to terminal 36.
- (For negative switch / positive common, refer to RWS indicated).
- Control signal threshold voltages:
  - DC: "on"  $\geq 16Vdc$  / "off"  $\leq 8Vdc$ , 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.