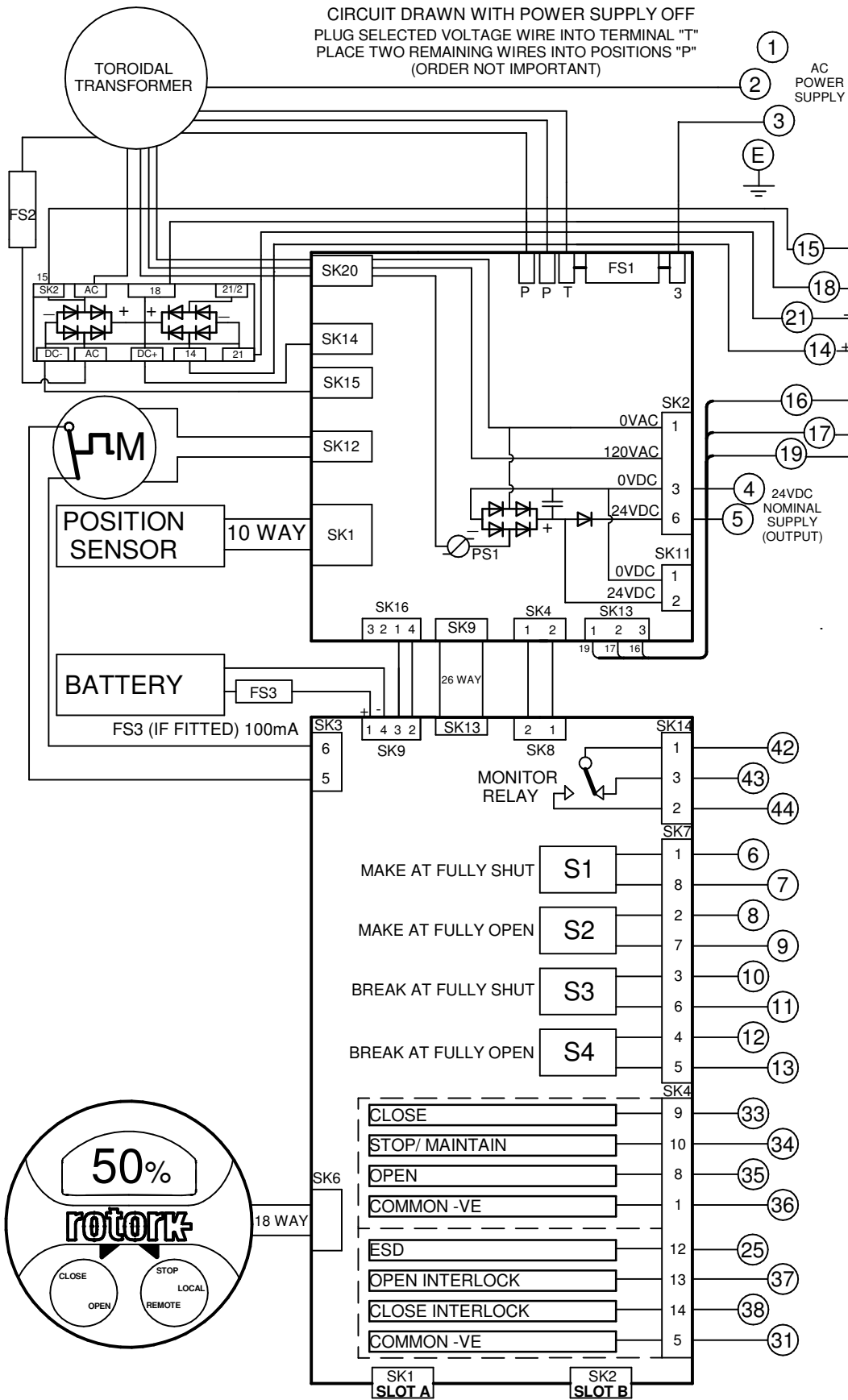


CIRCUIT DRAWN WITH POWER SUPPLY OFF
 PLUG SELECTED VOLTAGE WIRE INTO TERMINAL "T"
 PLACE TWO REMAINING WIRES INTO POSITIONS "P"
 (ORDER NOT IMPORTANT)

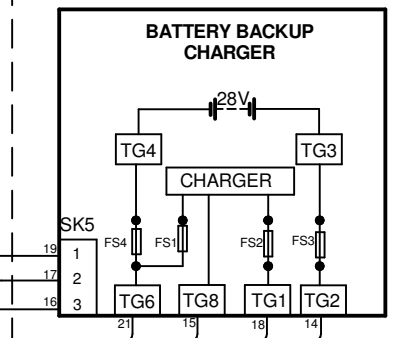
FOR TYPICAL REMOTE CONTROL
 DETAILS, SEE DOCUMENT
RWS100



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

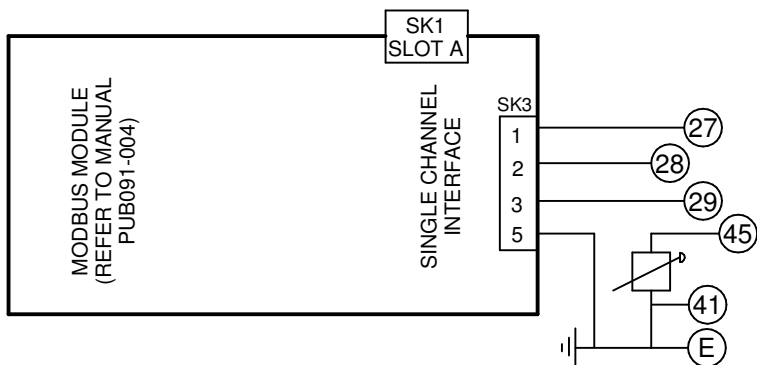
| Iss | Date | Chkd | Revision Details |
|-----|--------|------|---|
| 1 | 100616 | JC1 | First Issue. |
| 2 | 191017 | JC1 | Battery pack publication updated was E120E. |
| 3 | 030719 | PMJ | PUB002-065 WAS -039 |

www.rotork.com

| | |
|---|---|
| ROTORK CONTROLS LTD BATH, BA1 3JQ ENGLAND Tel:01225-733200 | ROTORK CONTROLS INC ROCHESTER NY 14624, USA Tel:585-247-2304 |
|---|---|

| | | | | |
|--|-------------|---|----------------------|---------------------------|
| IQT FAILSAFE BATTERY BACKUP + SINGLE CHANNEL MODBUS MODULE + RHS | | Circuit Diagram Number 390M2006 | Issue No 3 | Sheet 1 of 2 |
| Drawn by: PJW Date : 100616 Base WD: 390M2006 Job No : -- MI No : -- | B1 C1 B2 C2 | | | |

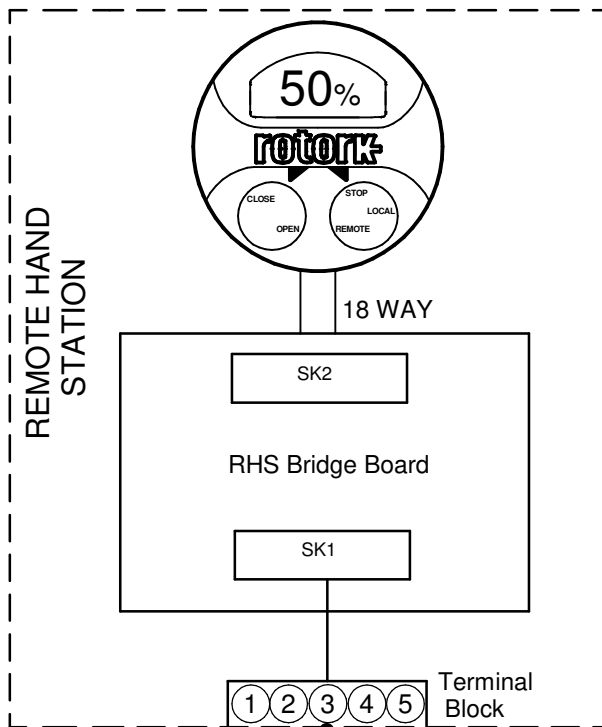
SLOT A



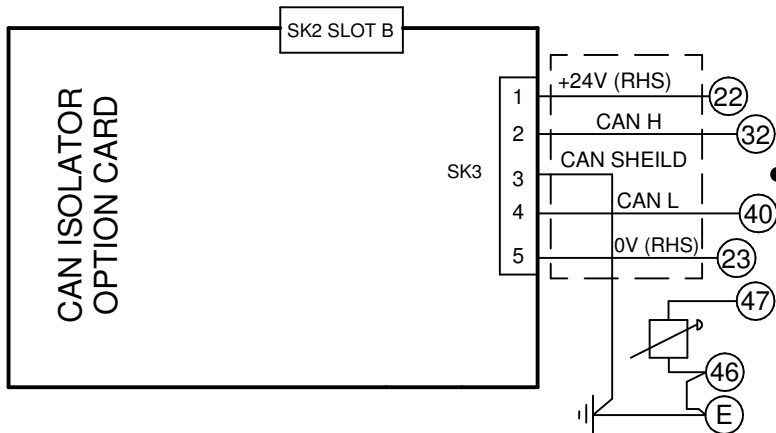
1A (Rx/Tx +)
1B (Rx/Tx -)
COMMON
SCREEN

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



| Actuator Terminal Bung No. | RHS Terminal Block No. | Function |
|----------------------------|------------------------|------------|
| 22 | 1 | +24V (RHS) |
| 23 | 2 | 0V (RHS) |
| 32 | 3 | CAN H |
| 40 | 4 | CAN L |
| 47 | 5 | SHEILD |

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 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.