

CIRCUIT DRAWN WITH  
POWER SUPPLY OFF

FOR TYPICAL REMOTE CONTROL  
DETAILS SEE DOCUMENT  
**NO RWS**

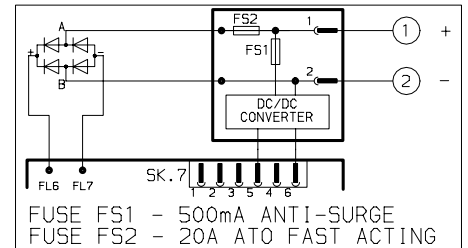
TRANSFORMER TAPPING OPTIONS

TYPE 1			TYPE 2		
TAP	NOM	RANGE	TAP	NOM	RANGE
X	100	80-120	X	200	160-240
Y	110	88-132	Y	230	184-276
Z	120	96-144	Z	270	216-324
FS1-250mA A/S FS2-5A A/S			FS1-150mA A/S FS2-2.5A A/S		

TYPE 3			TYPE 4		
TAP	NOM	RANGE	TAP	NOM	RANGE
X	380	304-456	X	480	384-576
Y	400	320-480	Y	575	460-690
Z	415	332-498	Z	690	552-828
FS1-100mA A/S FS2-1.5A A/S			FS1-50mA A/S FS2-1.6A F/A		

TRANSFORMER TYPES 1, 2, 3 & 4 -  
FUSE FS3 - 20A ATO FAST ACTING

TYPE 5 24VDC



ALL TRANSFORMER TYPES -  
PS1 SELF RESETTING FUSE

NOTE

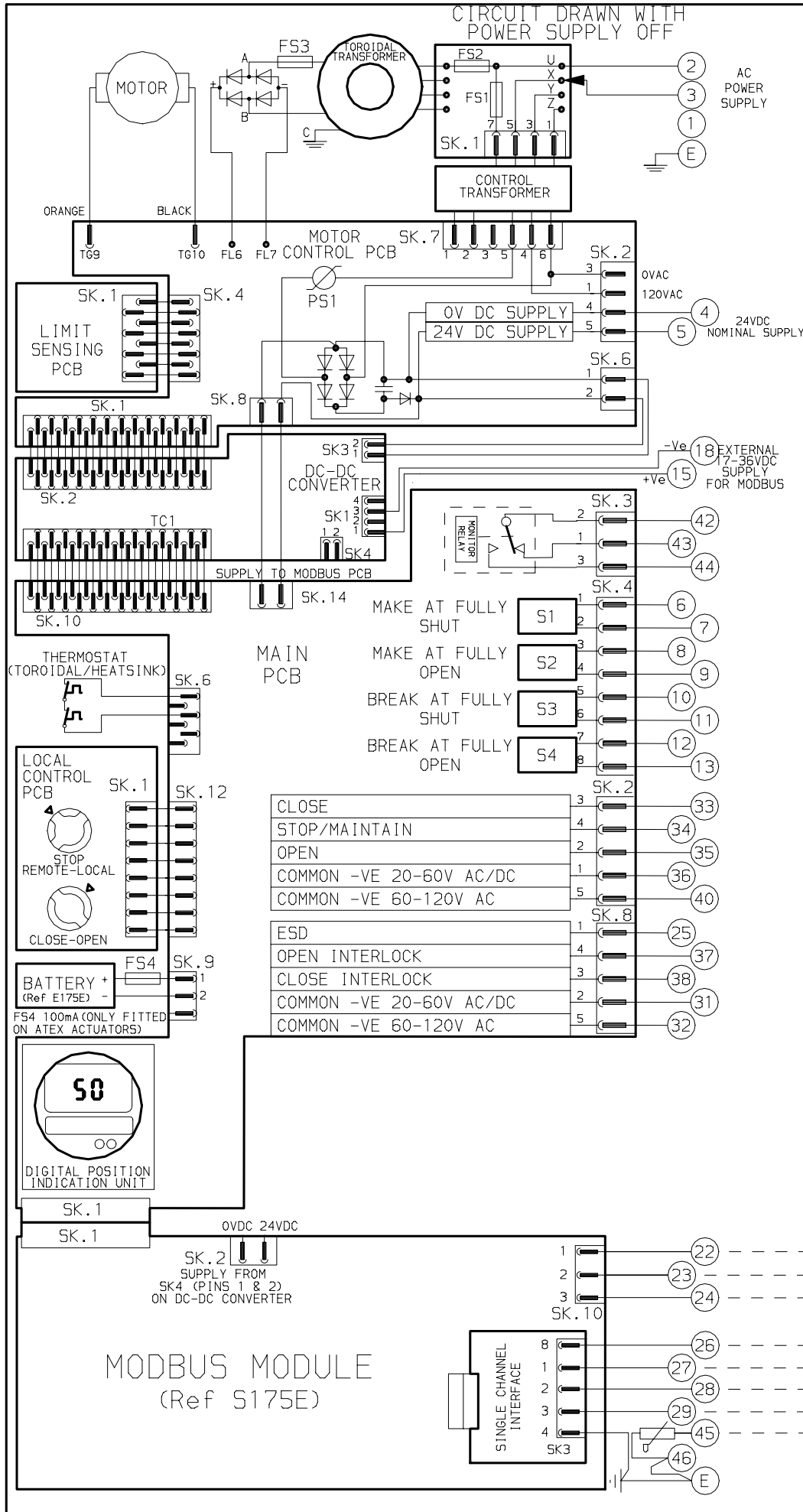
- REFER TO PUBLICATION E175E FOR APPROVED FUSES FS1, FS2 AND FS3.
- MAX EXTERNAL LOAD ON TERMINALS 4 & 5 TO BE 5W.
- CONTROL SIGNAL THRESHOLD VOLTAGES TO BE MINIMUM 'ON' 20V AC/DC
- MAXIMUM 'OFF' = 3V
- MINIMUM CONTROL SIGNAL DURATION TO BE 300ms.
- CURRENT DRAWN FROM EACH REMOTE CONTROL SIGNAL IS 5mA ON 24V DC OR 12mA ON 120V AC
- WIRES ARE IDENTIFIED AT EACH END BY TERMINAL No. OR TAG No.
- MODBUS WILL FUNCTION NORMALLY WHEN 3-PH MAINS POWER OR EXTERNAL 17-36VDC SUPPLY IS APPLIED.

VOLTAGE INPUT (0-5 VOLTS)  
+Ve TO 'A', 0 VOLTS TO COMMON  
CURRENT INPUT (0-20mA)  
LINK A TO B, CURRENT SOURCE  
BETWEEN A/B AND COMMON.

ANALOGUE I/P 'A'  
ANALOGUE I/P 'B'  
COMMON

TERMINATOR TO USE THE TERMINATOR  
1A CONNECT A LINK BETWEEN  
1B THE TERMINATOR AND 1B  
COMMON WIRE MODBUS FIELD  
CONNECTIONS AS NORMAL.

INDICATION CONTACTS S1-S4 ARE SHOWN  
IN THEIR DEFAULT CONFIGURATION.  
CONTACTS MAY BE CONFIGURED FOR ANY  
OF THE FUNCTIONS DESCRIBED IN E170E



MAKE AT FULLY SHUT  
MAKE AT FULLY OPEN  
BREAK AT FULLY SHUT  
BREAK AT FULLY OPEN

CLOSE	3	33
STOP/MAINTAIN	4	34
OPEN	2	35
COMMON -VE 20-60V AC/DC	1	36
COMMON -VE 60-120V AC	5	40
ESD	1	25
OPEN INTERLOCK	4	37
CLOSE INTERLOCK	3	38
COMMON -VE 20-60V AC/DC	2	31
COMMON -VE 60-120V AC	5	32