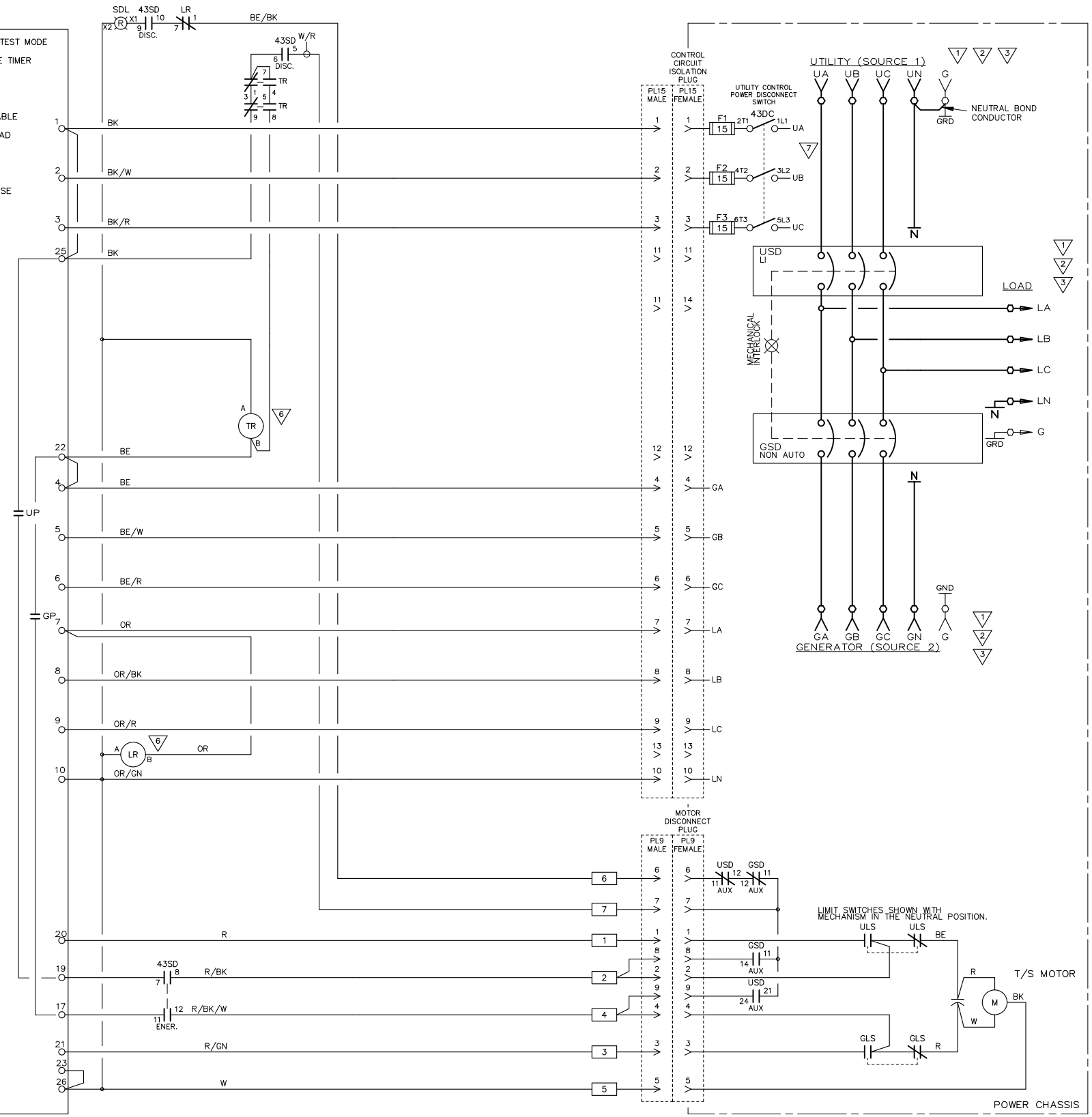


COLOR KEY

BLACK	BK
BLUE	BE
BROWN	BN
GREEN	GN
GREY	OY
ORANGE	OR
PURPLE	PE
RED	R
WHITE	W
YELLOW	Y

SOLID/TRACER(S)
* DENOTES #14AWG



- 1 SYSTEM MUST UTILIZE A SOLIDLY GROUNDED NEUTRAL
- 2 3 PHASE CONNECTION SHOWN, FOR SINGLE PHASE CONNECT A AND B ONLY.
- 3 B PHASE MUST BE HIGHER VOLTAGE TO GROUND ON 4 WIRE DELTA SYSTEMS.
- 6 ALL DC RELAYS MUST HAVE FREEWHEELING DIODES ACROSS THE COILS. ALL AC RELAYS MUST HAVE MOV'S ACROSS THE COILS.
- 7 WIRE LENGTH MUST BE MIN. 10' FROM BUS TO 43DC

APPROVED FOR CONSTRUCTION. DRAWINGS SUBJECT TO CHANGE WITHOUT NOTICE.

TSC80 CONTROLLER FACTORY SETTINGS

ENGINE START TIMER:	3	(0-60sec)
ENGINE WARM-UP TIMER:	2	(0-60min)
ENGINE COOL DOWN TIMER:	2	(0-30min)
UTILITY RETURN TIMER:	2	(0-30min)
NEUTRAL DELAY TIMER:	3	(0-60sec)
TRANSFER FAIL TIMER:	30s	(FIXED)
EXERCISE TIMER:	30min/7Day	(FIXED)
UTIL U/V TIMER:	0s	(FIXED)
GENERATOR U/V TIMER:	3s	(FIXED)
GENERATOR U/F TIMER:	3s	(FIXED)
UTILITY U/V (DO):	85%	(70-95%)
UTILITY U/V (PU):	90%	(5% > DO)
GENERATOR U/V (DO):	85%	(70-95%)
GENERATOR U/V (PU):	90%	(5% > DO)
GENERATOR U/F:	90%	(70-90%)

ALL SETTINGS ARE FIELD ADJUSTABLE UNLESS NOTED

TRANSFER SWITCH WIRING OPTIONS

- ENCLOSURE HEATER EXT. PWR (TS-H1)
- ENCLOSURE HEATER INT. PWR (TS-H2)
- LOAD DISTRIBUTION BREAKERS REFER TO DWG 840E005 [Qty 2]

- UTILITY SWITCHING DEVICE
- MOLDED CASE SWITCH
 - THERMAL MAGNETIC
 - ELECTRONIC (LI)
- POLES: 2
TRIP RATING: 400 A
WITHSTAND RATING: 65 KA @ 240 V

- GENERATOR SWITCHING DEVICE
- MOLDED CASE SWITCH
 - THERMAL MAGNETIC
 - ELECTRONIC (LI)
- POLES: 2
TRIP RATING: A
WITHSTAND RATING: KA @ 240 V

APPROVED FOR CONSTRUCTION
 MASTER COPY REFERENCE COPY OF
 MULTIPLE UNIT WORK ORDER
 RELEASED FOR INFORMATION
 AUTH. BY: OG DATE: 07-06-26

No.	REVISIONS	BY	DATE
9	LOGO CHANGED	LR	14-01-30
8	UPDATED HEATER OPTIONS	PQ	08-10-16
7	ADDED TERMINALS 6 AND 7	BMG	08-05-13
6	CHANGED SINGLE PHASE WIRING FROM A-C TO A-B	BMG	08-03-27
5	REMOVED ADDITIONAL CAPACITOR(W/ LATCHING RELAYS) FROM MOTOR CCT	BMG	07-10-10

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AUTOMATIC TRANSFER SWITCH
 MODEL TS 84_A_A1_1_A
 SCHEMATIC DIAGRAM
 A, V, Ø, W, Hz

CUSTOMER	
CUSTOMER ORDER No.	WORK ORDER No.
DRAWN BY: BMG	AUTH BY: OG
DATE: 07-07-24	REV: 9
DRAWING/FILE No. 840E007	SHEET 1/1

DRAWINGS AND/OR OTHER TECHNICAL INFORMATION SUPPLIED BY THOMSON POWER SYSTEMS AS A PART OF A SALE OF EQUIPMENT ARE FOR THE PURCHASER'S USE SOLELY IN CONJUNCTION WITH THAT EQUIPMENT, UNLESS SPECIFICALLY AGREED TO OTHERWISE AS A PART OF THE TERMS OF SALE.