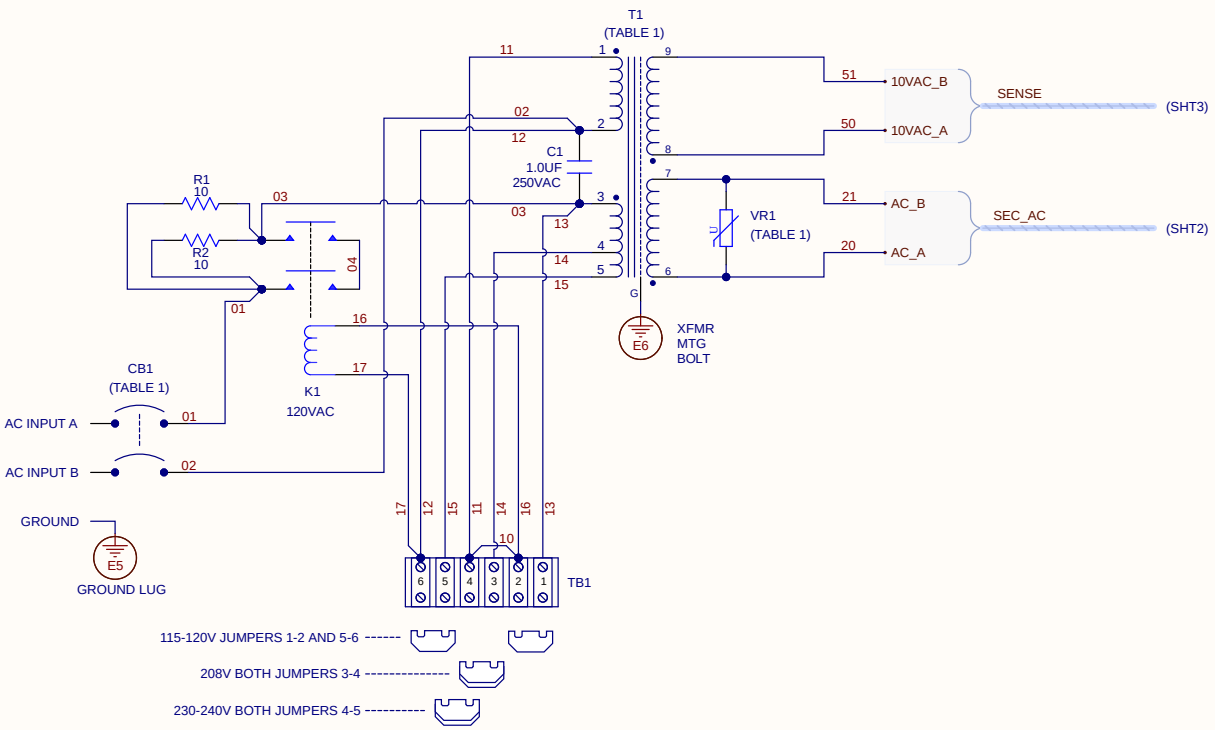

REVISIONS

DCN	REV	DESCRIPTION	DATE	APPROV.
PLC IQ	B	UPDATED TABLE	11 JUN 2007	TCG
106051	C	T1 PIN NUMBERS, WIRE SIZE	19 DEC 2011	TCG
106471	D	REDRAWN AND UPDATED	18 FEB 2014	TCG
108291	E	DIGITAL CONTROL & PROTOCOL BOARDS	08 SEP 2020	TCG
108400	F	DIGITAL CONTROL & PROTOCOL BOARDS	12 JUN 2023	TCG

NOTES

1. THIS CONFIGURATION IS USED FOR JUMPER-SELECTED THREE WAY INPUT VOLTAGE MODELS: 115-120/208/230-240VAC NOMINAL INPUT (CODES P AND T) EQUIPPED WITH INRUSH LIMITERS.
2. CB1, T1, AND VR1 VARY WITH INPUT RATING. SEE TABLE 1 FOR DETAILS.
3. CIRCUIT BREAKER RATING 35A MIN, 60A MAX, ALLOWING 5.3KVA INPUT RATING (60A X 80% = 48A @ 110VAC)
4. FOR 208V AND 230-240V INSTALLATIONS THE BRANCH CIRCUIT SHALL INCLUDE AN OVERLOAD PROTECTOR RATED AT LEAST 125% AND NOT EXCEEDING 167% OF RATED INPUT CURRENT. SEE TABLE 1.
5. PRIMARY WIRE SIZES:
   CB1 - K1 CONTACTS - T1 PRIMARY: 6 AWG
   T1 PRIMARY - TB1: 10 AWG
   K1 COIL TO TB1: 22 AWG MINIMUM
6. MODELS WITH OPTIONAL BREAKER INTERRUPT RATINGS (MORE THAN 10KAIC) MUST BE EQUIPPED WITH INRUSH LIMITER.
7. CE MARKED MODELS COMPLIANT WITH EN61000-3-3 MUST BE EQUIPPED WITH INRUSH LIMITER.
8. COMPONENT LEADS THAT ARE NOT PART OF A WIRING HARNESS DO NOT HAVE WIRE NUMBERS.

TABLE 1 INPUT COMPONENT SELECTION

OUTPUT RATING	VR1	SECONDARY AWG	50/60HZ (CODE P)		60HZ (CODE T)		BRANCH CIRCUIT PROTECTOR	
			T1	CB1	T1	CB1	208V	230-240V
12V 150A	130V	2X 4 AWG	600Q08P	45A 240V	600Q08T	45A 120/240V	30-35A	25-30A
24V 75A	130V	4 AWG	600Q16P	45A 240V	600Q16T	45A 120/240V	25-30A	25A
24V 100A	130V	2 AWG	600Q17P	60A 240V	600Q17T	60A 120/240V	35-40A	30-35A
48V 35A	130V	6 OR 8 AWG	600Q24P	40A 240V	600Q24T	40A 120/240V	25A	20A
48V 50A	130V	6AWG	600Q25P	50A 240V	600Q25T	50A 120/240V	30-35A	25-30A
120V 16A	250V	10 AWG	600Q32P	40A 240V	600Q32T	40A 120/240V	25-30A	20-25A
120V 25A	250V	10 AWG	600Q33P	60A 240V	600Q33T	60A 120/240V	35-45A	30-40A
240V 12A	480V	10 AWG	600Q41P	60A 240V	600Q41T	60A 120/240V	35-40A	30-35A

APPROVALS

DESIGNER

CHECKER

ENGINEER

T. GROAT

SENS STORED ENERGY SYSTEMS
LONGMONT, CO

WD,IQ,INP,3WAY,5300VA,INRSH LIM
PRIMARY WIRING AND ISOLATION TRANSFORMER

SIZE	DWG NUMBER	REVISION
B	WD\00549	F

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FILE: WD_00549.SCHDOC