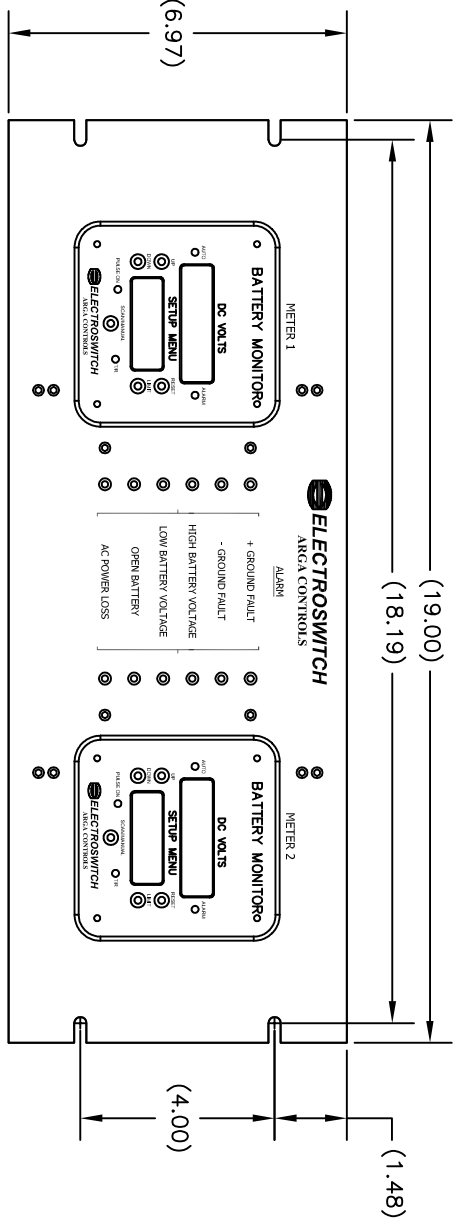
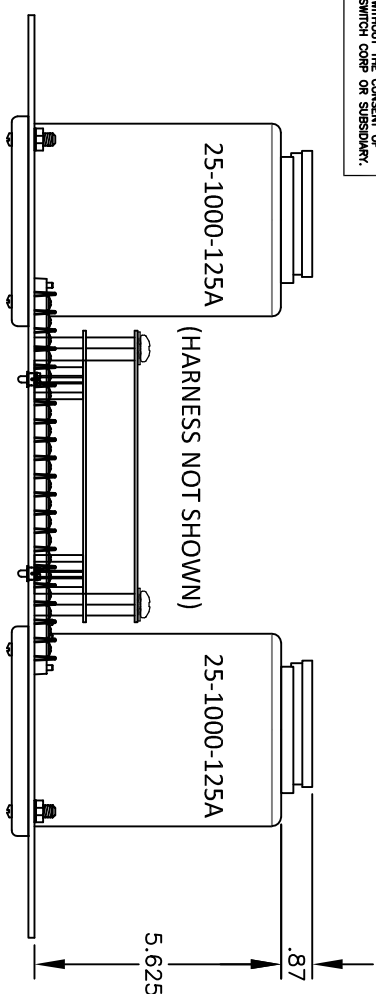


NOTICE: THE DATA IN THIS DOCUMENT INCORPORATES PROPRIETARY RIGHTS OF THE ARGA CONTROLS UNIT OF ELECTRO SWITCH CORP AND ITS SUBSIDIARIES. ARGA CONTROLS IS LOCATED AT 15-1000-125A-1. ANY PARTY ACCEPTING THIS DOCUMENT DOES SO IN COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE LICENSE AGREEMENT AND AGREES THAT IT SHALL NOT BE DUPLICATED IN WHOLE OR IN PART, NOR DISCLOSED TO OTHERS, WITHOUT THE CONSENT OF ARGA CONTROLS UNIT OF ELECTRO SWITCH CORP OR SUBSIDIARY.

REVISIONS				
REV	DESCRIPTION	BY	DATE	APPROVED
0	INITIAL RELEASE	A/E	6-14-18	EM



15-1000-125A-2 SHOWN
15-1000-125A-1 CONTAINS 1 METER IN METER 1

NOTES: UNLESS OTHERWISE SPECIFIED (SEE SHEET 2)

CSF ENG-01/12 A

QTY	REQD	QAGE CODE	PART OR IDENTIFYING NO.	NUMERICAL OR DESCRIPTION	MATERIAL SPECIFICATION	ITEM NO.

UNLESS OTHERWISE SPECIFIED:		P A R T S L I S T	
DIMENSIONS IN INCHES	DECIMALS	DRAWN	DATE
TOLERANCES	ANGULAR	APPROVALS	
XX ± .01	± .01	A/E	6-14-18
DO NOT SCALE DRAWING		ENG	6-14-18
UNLESS OTHERWISE SPECIFIED		QA	6-14-18
THE SURFACE FINISH OF MACHINED PARTS SHALL NOT EXCEED A MAX			
READING OF .125 PER			
ANSI B46.1-1978			
THIRD ANGLE PROJECTION			

ARGA CONTROLS			
A UNIT OF ELECTRO SWITCH CORP.			
ASSY. PANEL MOUNTED, DUAL BATTERY MONITOR 125VDC			
SIZE	QAGE CODE	DWG NO.	REV
B	50290	15-1000-125A-X	0

SCALE:	CAD FILE:	SHEET	OF
NTS	15-1000-125A-X	1	2

4 3 2 1
DWC TREE: PLOT SCALE: NTS

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SPECIFICATIONS FOR EACH BATTERY MONITOR:

1. BATTERY INPUT: 50 TO 180 VDC, 3 VA
2. GROUND RESISTORS: 30,820 KΩ, ±1%.
3. DISPLAYED MEASUREMENTS:
 - A: BATTERY VOLTAGE
 - B: +BUS TO GROUND
 - C: -BUS TO GROUND
 - D: GROUND FAULT VOLTAGE (GFV)
 - E: RIPPLE VOLTAGE (RVV)
 - F: RIPPLE CURRENT (W/ OPTIONAL SENSOR) (RIV)
 - G: TIME DELAY (SEC) (TD)
 - H: CHARGER PHASE (1Φ OR 3Φ)
4. SCANNING:
 - IN MANUAL MODE MEASUREMENT IS SELECTED BY BRIEFLY PUSHING THE SCAN/SELECT BUTTON.
 - IN SCAN MODE THE DISPLAY CYCLES THROUGH ALL SIX MEASUREMENTS, PLUS TIME DELAY AND AC CHARGER PHASE..
 - MODE IS CHANGED BY HOLDING IN THE SCAN BUTTON.
5. ALARMS:
 - ALARMS LEVELS ARE SET USING THE CONFIGURATION MENU. SEE PRODUCT USER MANUAL FOR DETAILS.
 - ALARM RELAYS ARE FORM C CONTACTS.
 - RELAY 1: + GROUND FAULT
 - RELAY 2: - GROUND FAULT
 - RELAY 3: HIGH BATTERY VOLTAGE
 - RELAY 4: LOW BATTERY VOLTAGE, OPEN BATTERY, LOSS OF AC TO CHARGER.
 - TIME DELAY: ALARM DELAY CONFIGURABLE FROM 1 TO 60 SECONDS.
 - RESET:
 - IN LATCH MODED THE ALARM IS ONLY CLEARED BY THE FRONT PANEL RESET BUTTON, OR BY REMOTE RESET. REMOTE RESET IS TRIGGERED BY CONNECTING TB2-20 TO TB1-4.
 - IN NON-LATCH MODE THE ALARM CLEARS FOLLOWING THE REMOVAL OF THE FAULT CONDITION AFTER THE TIME DELAY.
8. CONTACT RATING 2A AT 120 VAC OR 28 VDC 25 mA AT 125 VDC.

REV	DESCRIPTION	BY	DATE	APPROVED
	SEE SHEET 1			

9. OUTPUT:
 - FOUR FORM C ALARM OUTPUTS.
 - MODBUS OR DNP 3 SERIAL INTERFACE.
10. OPTIONAL GROUND FAULT LOCATOR:
 - HANDHELD GROUND DETECTOR WITH P/N:25-1100-GF
 - DETECTOR PULSE TURNED ON/OFF USING FRONT PANEL.
11. OPTIONAL HIGH IMPEDANCE MEASUREMENT FOR CORROSION DETECTION
 - WITH OPTION CURRENT SENSOR P/N: 25-1100-H1.
12. OPTIONAL ANNUNCIATION PORT J1 FOR EXTERNAL LEDS INDICATING -GROUND FAULT,HIGH VOLTAGE, LOW VOLTAGE, EXCESS RIPPLE VOLTAGE AND LOSS OF AC TO CHARGER.
13. FOR DNP AND MODBUS SERIAL COMMUNICATIONS PROTOCOLS SEE THE PRODUCT USER MANUAL.
14. ALARMS SETTING AND OPERATION PARAMETERS SEE TABLE 1

TABLE 1

FACTORY SETTING RANGE	125	+/-13-100	125-150	100-125	5-2000	5-2000	10	2.0
BATTERY VOLTS	BATTERY VOLTS	GROUND FAULTS VOLTS	BATTERY HIGH VOLTS	BATTERY LOW VOLTS	RIPPLE VOLTAGE mV	RIPPLE CURRENT mA	TIME DELAY SECONDS	

ARGA CONTROLS
 A UNIT OF ELECTRO SWITCH CORP.

SIZE	CAGE CODE	DWG NO.	REV
B	50290	15-1000-125A-X	0

SCALE: NTS CAD FILE: 15-1000-125A-X REV 0 SHEET 2 of 2

4

3

2

1

A

B

C

D

4

3

2

1

A

B

C

D

15-1000-125A-X