



- Balanced armature design
 - Hermetically sealed, mechanical interlock
-
- Designed to the performance standards of MIL-PRF-6106
-

PRINCIPLE TECHNICAL CHARACTERISTICS

- | | |
|---|--|
| • Contacts rated at | 28 Vdc; 115 Vac, 400Hz, 1 Ø 115/200
Vac, 400 Hz, 3Ø |
| • Weight | 2.9 lb max |
| • Dimensions | 6.21in x 3.80in x 2.70in |
| • Special units available upon request. | |

Application Notes:

101
102
103F
007

CONTACT ELECTRICAL CHARACTERISTICS

Contact rating per pole and load type [1]	Load current in Amps				
	28 Vdc	115 Vac 400 Hz	115/200 Vac 400 Hz 3Ø	115 Vac 60 Hz	440 Vac 60 Hz DELTA
Resistive	50	50	50	30	15
Inductive [4]	50	50	50	30	15
Motor	50	50	50	15	12
Intermediate current	5	5	5	15	-
Load transfer [3]	-	-	50	-	-

COIL CHARACTERISTICS (Vdc)

CODE	Vdc	115 Vac 60/400 Hz	Suppressed Vdc [2]
Nominal operating voltage	28	115	28
Maximum operating voltage	29	124	29
Pick-up voltage, max.			
- Nominal	18	90	18
- High temp test	21	100	21
- Continuous current test	22.5	104	22.5
Drop-out voltage, max.	7	40	7
Coil resistance ohms $\pm 10\%$ at +25° C	50	-	50
Coil current max. mA at +25° C	-	200	-

GENERAL CHARACTERISTICS

Temperature range	-70°C to +125°C
Minimum operating cycles (life) at rated load	50,000
Minimum operating cycles (life) at 25% rated load	100,000
Dielectric strength at sea level	
- Coil to case	DC 1,250 Vrms AC 1,500 Vrms
- Auxiliary contacts	DC 1,250 Vrms AC 1,500 Vrms
- All other points	DC 1,250 Vrms AC 1,800 Vrms
Dielectric strength at altitude 80,000 ft	700 Vrms
Insulation resistance (at 500 Vdc) minimum	100 M Ω min
Sinusoidal vibration (70-1500 Hz)	15G
Shock (6-9 millisecond duration)	50G
Maximum contact opening time under shock or vibration	2 ms
Operate time at nominal voltage	
DC	30 ms max
AC	30 ms max
Release time at nominal voltage	
DC	10 ms max
AC	50 ms max
Contact bounce at nominal voltage	2 ms max [1]

Unless otherwise noted, the specified temperature range applies to all relay characteristics.

NUMBERING SYSTEM

LEACH PART NO.	DESCRIPTION	MS NUMBER	MOUNTING STYLE [4]	SCHEMATIC DIAGRAM [4]
9125-10497	3 PDT-NO, 50 AMP, DC COIL	-	1	1
9125-10498	3 PDT-NO, 50 AMP, DC COIL, SUPPRESSED	-	1	2
9125-10499	3 PDT-NO, 50 AMP, DC, AC COIL	-	1	1
9125-10500	3 PDT-NO, 50 AMP, AC COIL	-	1	1
9125-2Z-C7C4-001	3 PDT-NO, 50 AMP, DC COIL, AUX CONTACTS	-	2	3
9125-10341	3 PDT-NO, 50 AMP, DC COIL, SUPPRESSED, AUX CONTACTS	-	2	4
9125-2Z-C7D03-001	3 PDT-NO, 50 AMP, AC COIL, AUX CONTACTS	-	2	3
9125-10501	3 PDT-NO, 50 AMP, DC, AC COIL, AUX CONTACTS	-	2	3
9125-10502	6 PST-NO, 50 AMP, DC COIL	-	3	5
9125-10503	6 PST-NO, 50 AMP, DC COIL, SUPPRESSED	-	3	6
9125-10504	6 PST-NO, 50 AMP, DC COIL, AUX CONTACTS	-	4	7
9125-10505	6 PST-NO, 50 AMP, DC COIL, SUPPRESSED, AUX CONTACTS	-	4	8
9125-10506	6 PST-NO, 50 AMP, AC COIL	-	3	5
9125-10507	6 PST-NO, 50 AMP, AC COIL, AUX CONTACTS	-	4	7

Special models available upon request, please contact factory.

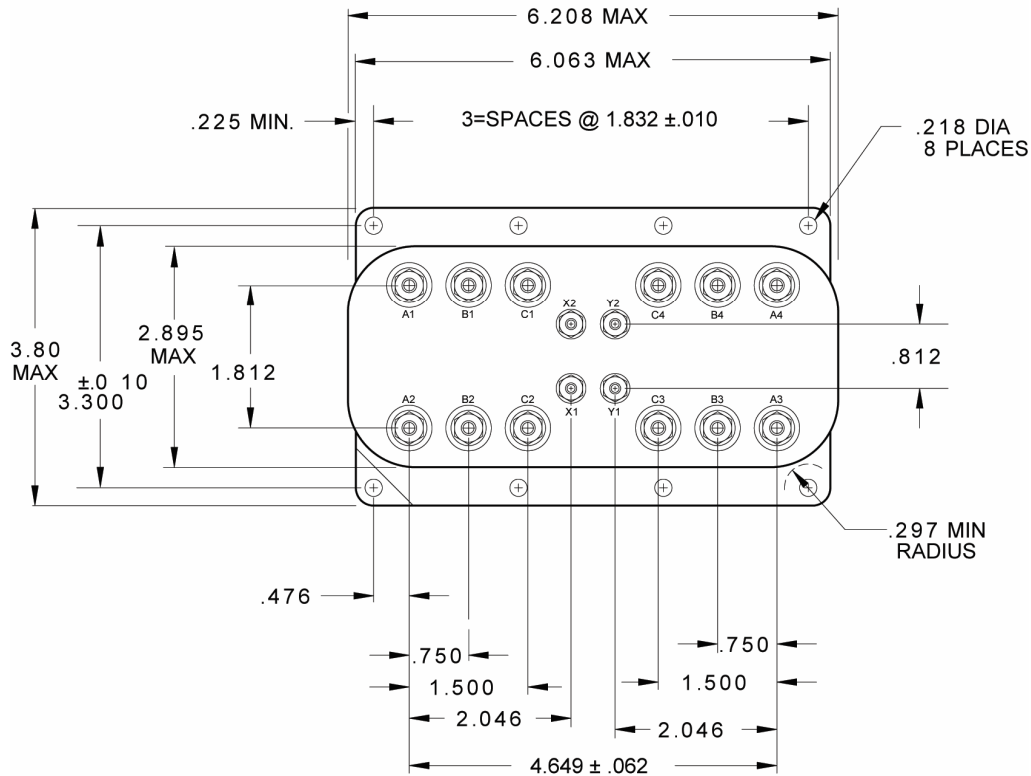
Notes

- Auxiliary contact rating:
Resistive and inductive: (28 Vdc or 115 Vac) 5 Amp
Lamp: (28 Vdc or 115 Vac) 1 Amp
Bounce at nominal voltage: .004 sec max
- Suppressed coils have back EMF suppression to 42 Vdc.
- Suitable for transfer between unsynchronized AC power at ratings indicated.
- Inductive load life is 20 percent of rated resistive load life.

CONFIGURATIONS

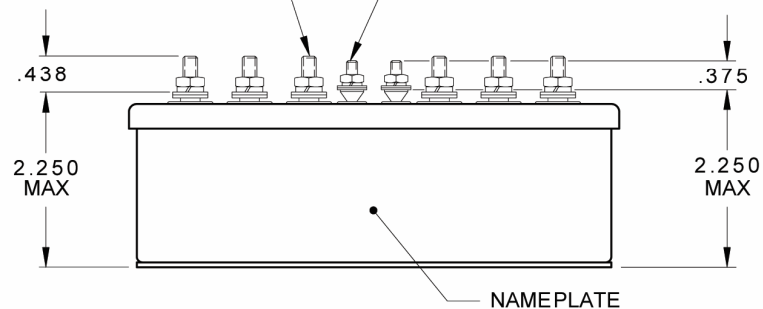
Dimensions in inches
Tolerances, unless otherwise specified, XX ± .03, .XXX ± .01

FIGURE 1



STUD, #10-32 UNF-2A
NUT, MS35650-305T
LOCKWASHER, MS35338-43
FLATWASHER, AN961-10T, QTY 2
12 PLACES

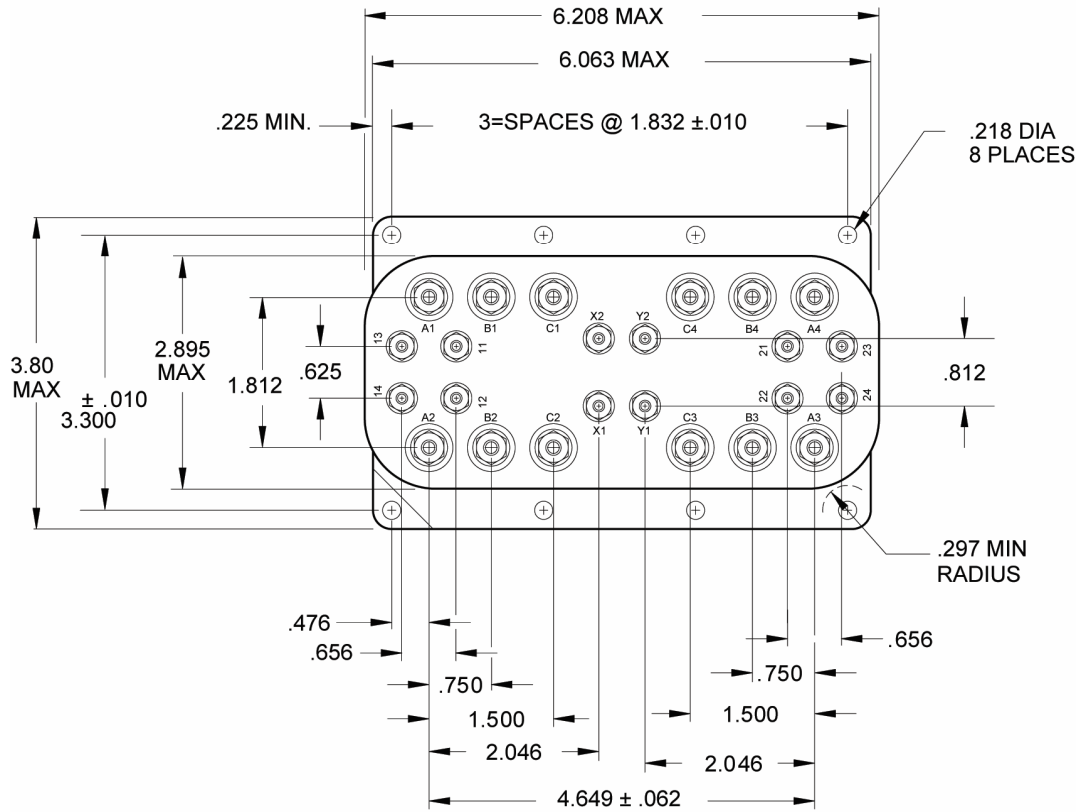
STUD, #6-32 UNC-2A
NUT, MS35649-265T
LOCKWASHER, MS35338-41
WASHER, AN961-6T, QTY 2
4 PLACES



MODEL NUMBER	WEIGHT (MAX)
9125-10497	2.7 LB
9125-10498	2.7 LB
9125-10499	2.7 LB
9125-10500	2.7 LB

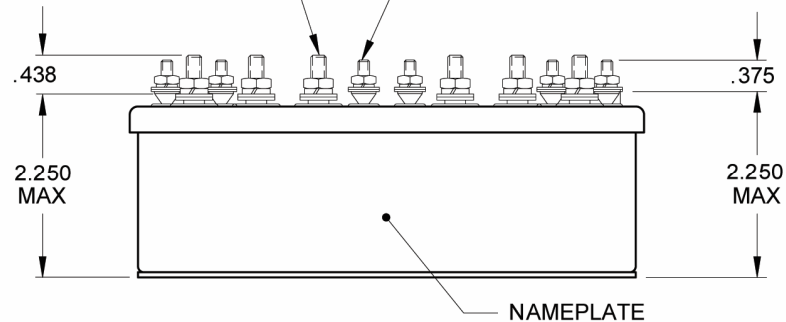
FIGURE 2

Dimensions in inches
Tolerances, unless otherwise specified, XX ± .03, .XXX ± .01



STUD, #10-32 UNF-2A
NUT, MS35650-305T
LOCKWASHER, MS35338-43
FLATWASHER, AN961-10T, QTY 2
12 PLACES

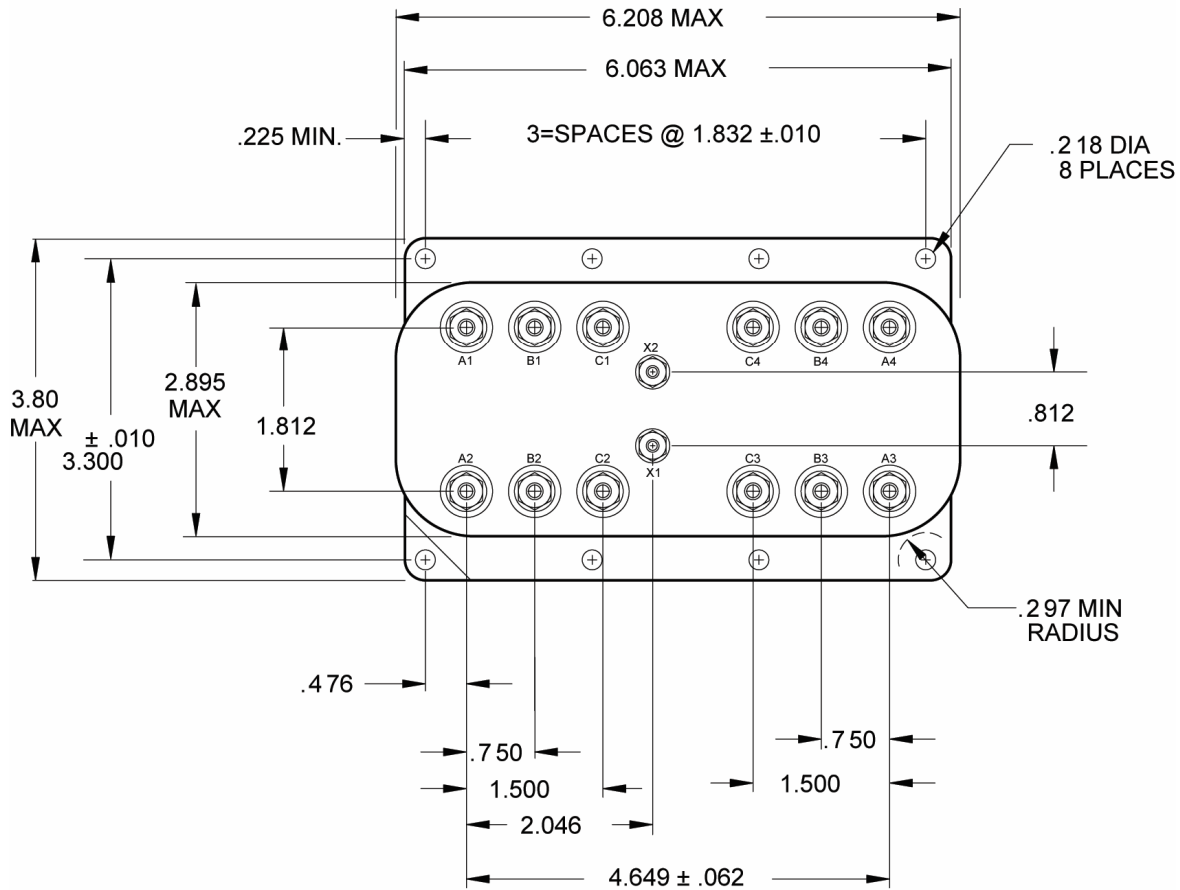
STUD, #6-32 UNC-2A
NUT, MS35649-265T
LOCKWASHER, MS35338-41
WASHER, AN961-6T, QTY 2
12 PLACES



MODEL NUMBER	WEIGHT (MAX)
9125-10341	2.9 LB
9125-10501	2.9 LB
9125-2Z-C7C4-001	2.9 LB
9125-2Z-C7D3-001	2.9 LB

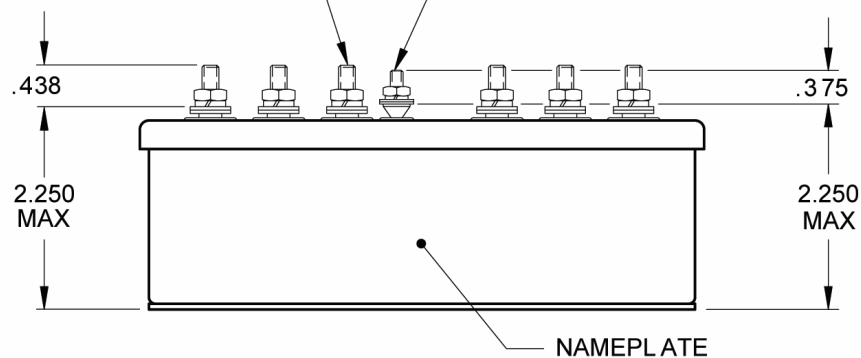
FIGURE 3

Dimensions in inches
Tolerances, unless otherwise specified, XX ± .03, .XXX ± .01



STUD, #10-32 UNF-2A
NUT, MS35650-305T
LOCKWASHER, MS35338-43
FLATWASHER, AN961-10T, QTY 2
12 PLACES

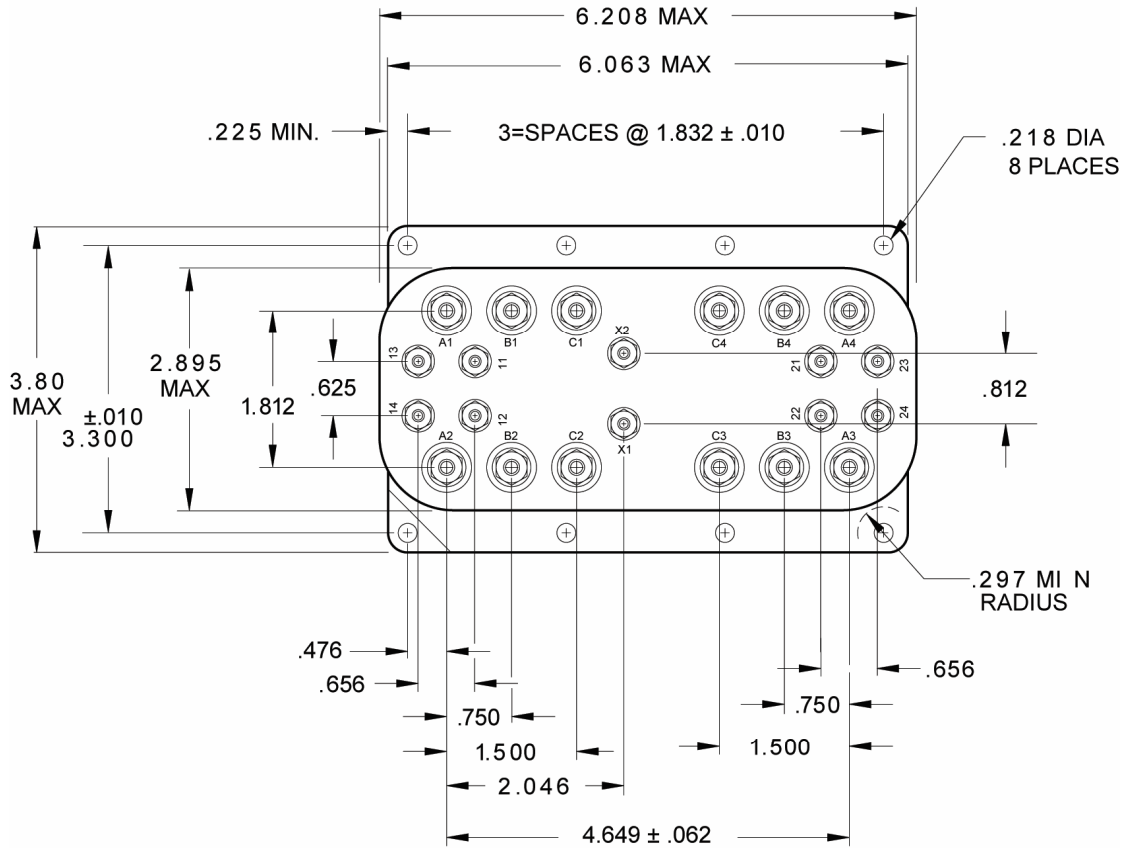
STUD, #6-32 UNC-2A
NUT, MS35649-265T
LOCKWASHER, MS35338-41
WASHER, AN961-6T, QTY 2
2 PLACES



MODEL NUMBER	WEIGHT (MAX)
9125-10502	2.7 LB
9125-10503	2.7 LB
9125-10506	2.7 LB

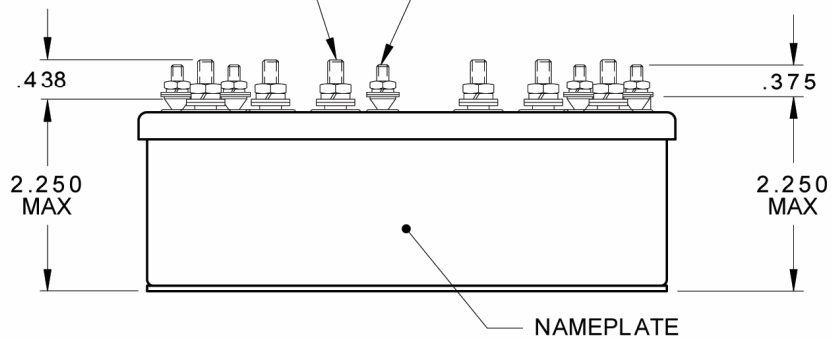
FIGURE 4

Dimensions in inches
Tolerances, unless otherwise specified, XX ± .03, .XXX ± .01



STUD, #10-32 UNF-2A
NUT, MS35650-305T
LOCKWASHER, MS35338-43
FLATWASHER, AN961-10T, QTY 2
12 PLACES

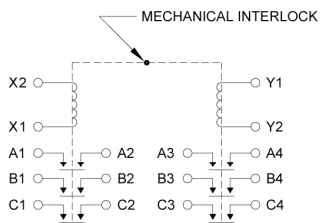
STUD, #6-32 UNC-2A
NUT, MS35649-265T
LOCKWASHER, MS35338-41
WASHER, AN961-6T, QTY 2
10 PLACES



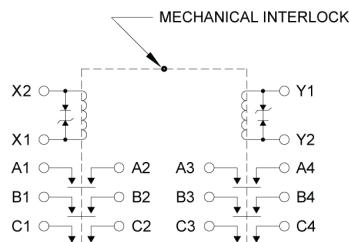
MODEL NUMBER	WEIGHT (MAX)
9125-10504	2.9 LB
9125-10505	2.9 LB
9125-10507	2.9 LB

TERMINAL BARRIERS (OPTIONAL)

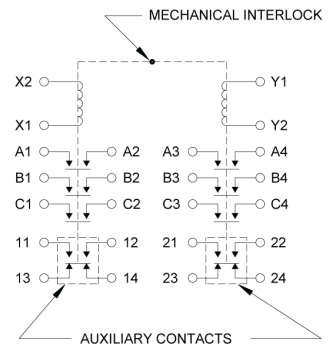
SCHEMATIC DIAGRAM #1



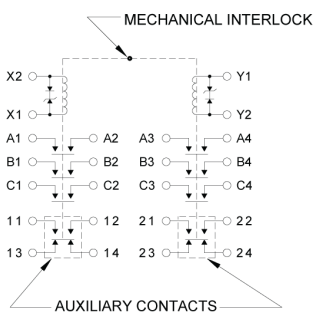
SCHEMATIC DIAGRAM #2



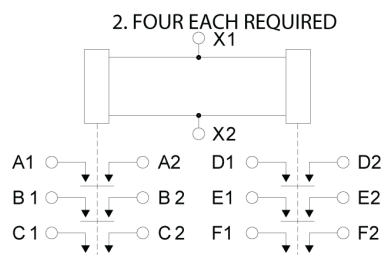
SCHEMATIC DIAGRAM #3



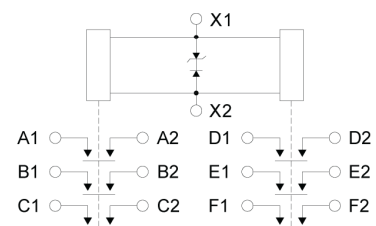
SCHEMATIC DIAGRAM #4



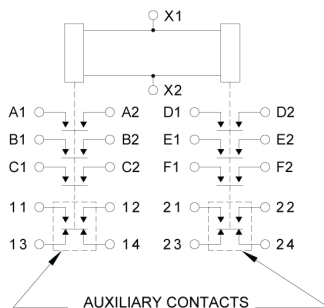
SCHEMATIC DIAGRAM #5



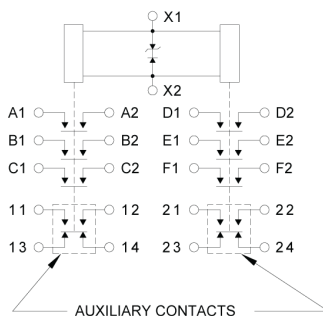
SCHEMATIC DIAGRAM #6



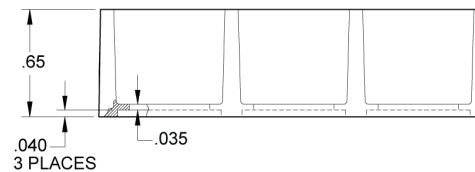
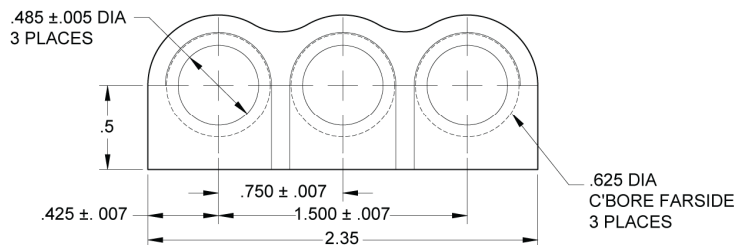
SCHEMATIC DIAGRAM #7



SCHEMATIC DIAGRAM #8



TERMINAL BARRIER (OPTIONAL)
PART NUMBER: 001-1908-000



1. MATERIALS: DIALL FS-80 (BLACK)
2. FOUR EACH REQUIRED