APPLICATION	
NEXT ASSY	USED ON
254-0079-004-000	

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
NC	FORMAL RELEASE PER EO 60039	12/5/95	LB
A	SEE EO 61040	4/29/96	RB
B	SEE EO 64253	8-8-97	KP
C	SEE EO 69504	11-9-99	L Grindle

PRODUCT CONTROL DWG (PCD)

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS
TOL ANGLES ±
DEC .XX ±0.80 .XXX ±

MATERIAL

FINISH
PARA 5.3

DRAWN 4/1/96 PHAN
CHK 11-3-99
ENGR 11-4-99
PROJ
Q.A. 11/4/99
MFG. 11/4/99
ENGR MGR

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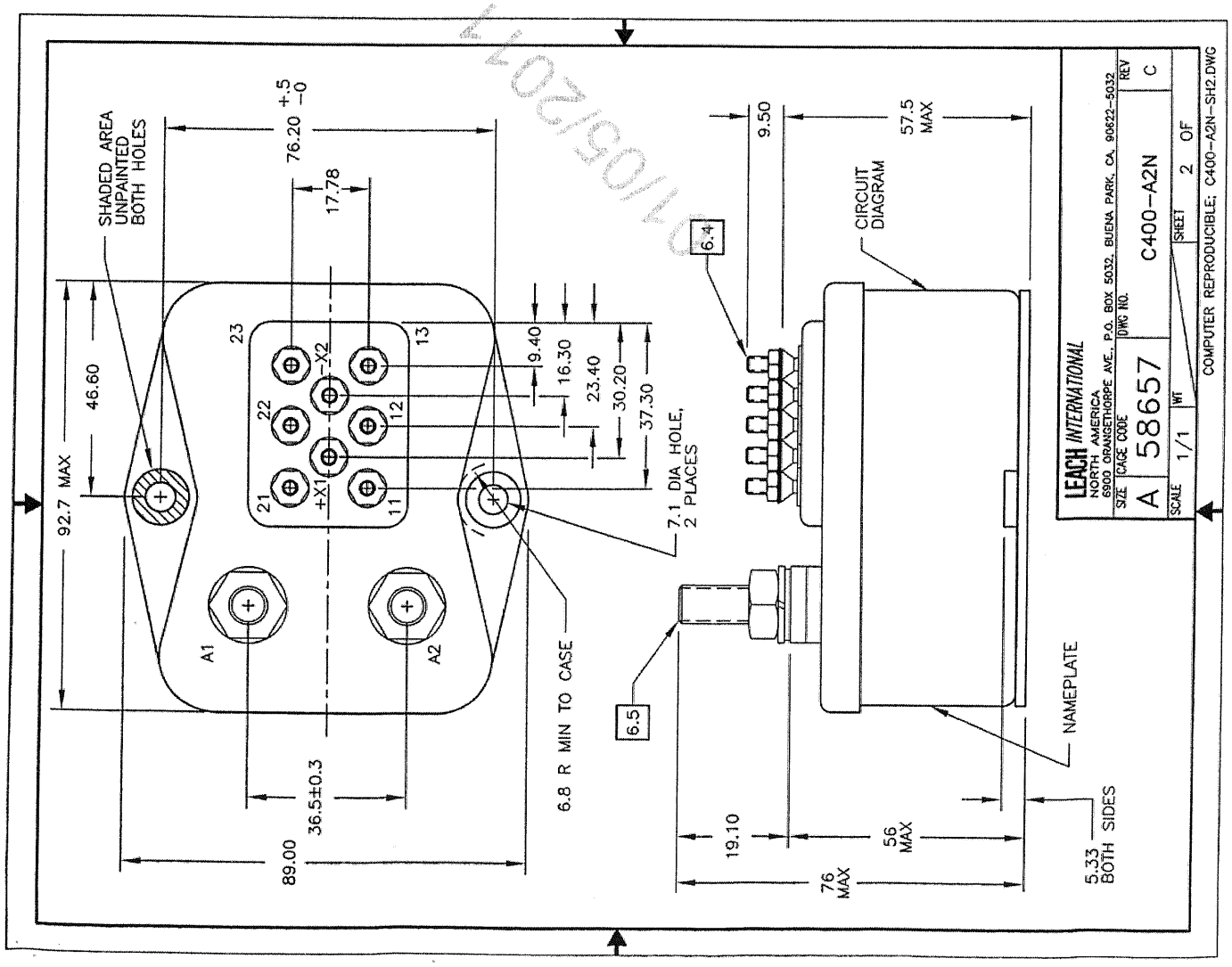
NORTH AMERICA
6900 ORANGETHORPE AVE., P.O. BOX 5032, BUENA PARK, CA. 90622-5032

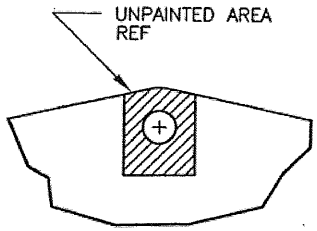
TITLE
CONTACTOR, 400 AMP, SPST-N.O., HERMETICALLY SEALED, STUD TERMINALS, WITH AUXILIARY CONTACTS

SIZE	CAGE CODE	DWG NO.	REV.
A	58657	C400-A2N	C

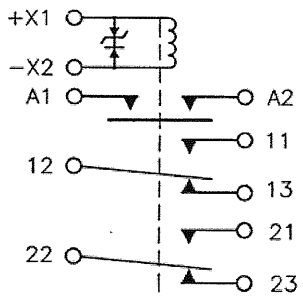
SCALE | WT PARA 5.1 | SHEET 1 OF 5

COMPUTER REPRODUCIBLE; C400-A2N-SH1.DWG





VIEW A–A



CIRCUIT DIAGRAM

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SIZE	CAGE CODE	DWG NO.	REV
A	58657	C400–A2N	C

SCALE	WT	SHEET
		3 OF

COMPUTER REPRODUCIBLE; C400–A2N–SH3.DWG

DETAIL DATA

1.0 COIL DATA

1.1	NOMINAL OPERATING VOLTAGE	28 VDC
1.2	MAXIMUM OPERATING VOLTAGE	32 VDC
1.3	DROP-OUT VOLTAGE	7 VDC $^{+0}_{-5.5}$ VDC
1.4	PICK-UP VOLTAGE	18 VDC MAX
1.5	HOLD VOLTAGE	9 VDC
1.6	COIL RESISTANCE AT +25° C	60 ±10% OHMS
1.7	COIL CURRENT AT +25° C	0.6 AMP MAX
1.8	COIL TRANSIENT SUPPRESSION	42 VOLTS

2.0 CONTACT DATA

2.1 CONTACT RATING

		MAIN CONTACT AT 28 VDC	AUX CONTACT AT 28 VDC OR 115 VAC, 400 Hz	OPERATING CYCLE MIN
		AMP	AMP	10^3
2.1.1	RESISTIVE	400	5	50
2.1.2	INDUCTIVE	150	5	20
2.1.3	MOTOR	250	3	50
2.1.4	MECHANICAL LIFE	100	1.5	100
2.1.5	SPECIAL MOTOR LOAD (SEE TABLE 1 AND PARA 6.3)	–	3	20

2.2 CONTACT RESISTANCE DROP — 150 MV MAX INITIALLY
175 MV AFTER LIFE TEST

3.0 ENVIRONMENTAL DATA

3.1	AMBIENT TEMPERATURE RANGE	−55° C TO +71° C
3.1.1	CASE TEMPERATURE	+150° C MAX
3.2	ALTITUDE	SEA LEVEL TO 50,000 FEET

3.3 DIELECTRIC STRENGTH

		SEA LEVEL		ALTITUDE
		INITIALLY	AFTER LIFE TEST	50,000 FT
3.3.1	COIL TO CASE	1250 VRMS	1000 VRMS	500 VRMS
3.3.2	AUX CONTACT	1250 VRMS	1000 VRMS	500 VRMS
3.3.3	ALL OTHER POINTS	1500 VRMS	1250 VRMS	700 VRMS

3.4 INSULATION RESISTANCE — 100 MEGOHMS MIN AT 500 VDC, INITIAL
50 MEGOHMS AFTER LIFE TESTS

3.5 VIBRATION (SINUSOIDAL) — 10 G's, 70–500 Hz
5 G's, 500–2000 Hz

3.6 VIBRATION (RANDOM) — 1 HR/PLANE
0.04 G^2/Hz 15–197 CYCLES
4 dB/OCTAVE INCREASE 197–300 CYCLES
0.07 G^2/Hz 300–1000 CYCLES
6 dB/OCTAVE DECREASE 1000–2000 CYCLES
NO CONTACT OPENING OR CLOSING IN EXCESS OF 10 MICROSECONDS.

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SIZE	CAGE CODE	DWG NO.	REV.
A	58657	C400-A2N	C

SCALE | WT | SHEET 4 OF

COMPUTER REPRODUCIBLE; C400-A2N-SH4.DWG

3.0 ENVIRONMENTAL DATA (CONTINUED)

3.7	SHOCK	25 G's FOR 9 MILLISECONDS NO CONTACT OPENING OR CLOSING IN EXCESS OF 10 MICROSECONDS.
3.8	ACCELERATION	15 G's MAX

4.0 OPERATIONAL DATA

4.1	OPERATE TIME AT +25° C & 28 VDC	35 MILLISECONDS MAX
4.2	RELEASE TIME AT +25° C & 28 VDC	15 MILLISECONDS MAX
4.3	CONTACT BOUNCE TIME AT +25° C & 28 VDC	4 MILLISECONDS MAX

5.0 PHYSICAL DATA

5.1	WEIGHT	1.75 LB MAX
5.2	TERMINAL STRENGTH	MEET THE TORQUE REQUIREMENTS OF MIL-R-6106, PARA 3.4.8

5.2.1 TORQUE LIMIT	QUAL.	INSTALLATION
3/8-24 STUD	150 LB IN	115 LB IN
6-32 STUD	10 LB IN	7.5 LB IN

5.3	FINISH	PAINTED INSTRUMENT BLACK
5.4	CONSTRUCTION	HERMETICALLY SEAL
5.5	MARKING	PER MIL-STD-130

6.0 NOTES:

6.2 CONTACTOR MEETS THE REQUIREMENTS OF M6106/33.

6.1 CONTACTOR WILL NOT OPERATE BY REVERSE POLARITY.

6.3 CONTACTOR MUST BE ABLE TO MEET THE REQUIREMENTS OF TABLE 1 FOR THREE (3) CYCLES WITH ONLY 10 SECONDS OFF BETWEEN CYCLES. AT THE END OF THREE (3) CYCLES OFF TIME WILL BE 5 MINUTES MINIMUM. THE START CYCLE MAY BE ABORTED AT ANY TIME DURING THIS PERIOD.

TABLE 1 SPECIAL MOTOR LOAD

ELAPSED TIME SECONDS	STARTER CURRENT AMPERES
0 (INITIAL)	1200
1	1000
2	1000
3	900
4	800
5	700
6	600
7 TO 60	400

6.4 STUD M4
NUT, DIN 934
LOCKWASHER, DIN 137
FLATWASHER, DIN 433

6.5 STUD M10
NUT, DIN 936
LOCKWASHER, DIN 127
FLATWASHER, DIN 433

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SIZE	CAGE CODE	DWG NO.	REV.
A	58657	C400-A2N	C

SCALE | WT | SHEET 5 OF 5

COMPUTER REPRODUCIBLE; C400-A2N-SH5.DWG