

SORENSEN**NMS Series: Single Output
NMD Series: Dual Output**

T-57-05

ELECTRICAL**Input Voltage:** 105 to 125 Vac, 50 Hz to 440 Hz std.**Output Voltage Set Accuracy:** $\pm 5\%$ **Load Regulation:** 0.1% of V out (no load to full load)¹**Line Regulation:** 0.05% of V out (low line to high line)**Ripple:** 1 mV p-p max.²**Transient Response:** 1 mV p-p for less than 1 μ sec.**Temperature Coefficient:** .02%/°C**Isolation Resistance Input to****Output:** Greater than 500 megohms.**Hi Pot Input To Output:** 1750 Vrms (2500 Vdc)**Current Foldback/Short Circuit Prot.:** (Standard all models).**ENVIRONMENTAL****Ambient Operating Temperature****Range:** -25°C to +70°C**Storage Temperature:** -40°C to +85°C**MECHANICAL****Case:** Bakelite/Diallylphthalate, Black**Encapsulation:** Epoxy**Mounting:** Two 4-40 Inserts (PC Mount.)

Four 4-40 Inserts (Chassis mount.)

Connections:

1. P.C. Pins, .250 Long Min.
2. Terminal Blocks, only on chassis mount units

**NMS Single Outputs—
PC Mount**

SORENSEN P/N	Voltage	Current	Case Config.
NMS 5-.250	5	250 ma	B
NMS 5-.500	5	500 ma	B
NMS 5-1.00	5	1000 ma	A
NMS 5-2.00	5	2000 ma	C
NMS 15-.200	15	200 ma	B
NMS 15-.500	15	500 ma	A

**NMD Dual Output—
PC Mount**

SORENSEN P/N	Voltage	Current	Case Config.
NMD 15-.030	± 15	± 30 ma	B
NMD 15-.065	± 15	± 65 ma	B
NMD 15-.100	± 15	± 100 ma	B
NMD 15-.200*	± 15	± 200 ma	A
NMD 15-.350	± 15	± 350 ma	C

CONNECTIONSSingle Outputs—
Pin 3 No Connect

4— Vdc Out

5 + Vdc Out

6 Faraday Shield*

*M6 Option Only

Dual Outputs—
Pin 3—Vdc Out

4 Common Out

5 + Vdc Out

6 Faraday Shield*

OPTIONS

M2 200-252 Vac Input

M3 105-125/210-250 Vac Input

M5 Terminals

M6 Faraday Shield

M7 Overvoltage Protection

*UL Recognized. Consult factory for complete listing.

NOTES:

1. 0.2% for some high I, 5V models.
2. Dc to 1 MHz bandwidth. 2 mV p-p for outputs above 20 Vdc.

KMS Series: Microminiature NMT Series: Triple Output DMS Series: Single Output DMD Series: Dual Output

T-57-05

KMS Microminiature— PC Mount***

SORENSEN P/N	Voltage	Current	Case Config.
KMS 5-.250	5	250 ma	F
KMS 12-.100	12	100 ma	J
KMS 15-.100	15	100 ma	J
KMS 24-.050	24	50 ma	J
KMS 28-.040	28	40 ma	J

***Accepts M2, M6 & M7 options.

NMT Triple Output— PC Mount†

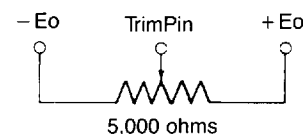
SORENSEN P/N	Voltage	Current	Case Config.
NMT 250/100	± 15, +5	± 100, + 250 ma	AT
NMT 500/100	± 15, +5	± 100, + 500 ma	AT
NMT 750/100	± 15, +5	± 100, + 750 ma	CT

†Accepts all options.

CONNECTIONS

Triple Output—Standard:
Pin 3—12/–15 Vdc Out
4 + 5 Vdc Return
5 Common Out
6 + 5 Vdc Out
7 + 12/ + 15 Vdc Out
8 Faraday Shield**

**M6 Option Only Microminiature
(See drawings for connections)
For + 5% trim adjust:



OPTIONS

M2 200-252 Vac Input
M3 105-125/210-250 Vac Input
M5 Terminals
M6 Faraday Shield
M7 Overvoltage Protection

DMS Single Output— Chassis Mount

SORENSEN P/N	Voltage	Current	Case Config.
DMS 5-.500	5	500 ma	E
DMS 5-1.00	5	1000 ma	E
DMS 5-2.00	5	2000 ma	D
DMS 5-3.00	5	3000 ma	D

All input/output connections are via terminal strip.

DMD Dual Output— Chassis Mount

SORENSEN P/N	Voltage	Current	Case Config.
DMD 15-.100	± 15	± 100 ma	E
DMD 15-.200	± 15	± 200 ma	E
DMD 15-.350	± 15	± 350 ma	D
DMD 15-.500	± 15	± 500 ma	D

All input/output connections are via terminal strip.

OPTIONS:

M2 200-252 Vac Input
M3 105-125/210-250 Vac Input
M6 Faraday Shield
M7 Overvoltage Protection

CONNECTIONS

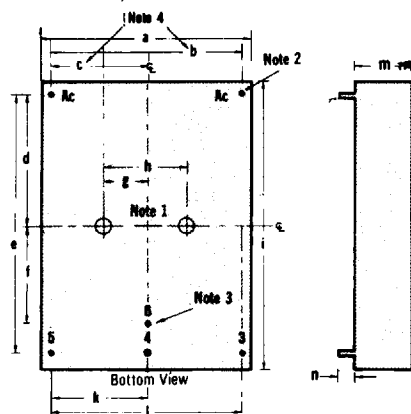
Pin	Single/ Dual	Option M3 Single/ Dual	Option M6 Single Only	Options M3 & M6 Single Only	Option M7
1	+ VDC	+ VDC	+ VDC	+ VDC	
2	COM VDC	COM VDC	COM VDC	COM VDC	
3	–VDC	–VDC	SHIELD	SHIELD	
4	N.C.	AC IN	N.C.	AC IN	
5	AC IN	AC IN	AC IN	AC IN	
6	AC IN	AC IN	AC IN	AC IN	
7	N.C.	AC IN	N.C.	AC IN	

1. For 110 VAC—Jump 7 & 6, Jump 4 & 5; 7 & 4 are AC IN. For 220 VAC—Jump 6 & 5, 7 & 4 (AC IN). 2. For 110 VAC—Jump 7 & 6, Jump 4 & 5; 7 & 4 are AC IN. For 220 VAC—Jump 6 & 5, 7 & 4 are AC IN.

SORENSEN

Miniature Encapsulated Linear Power Supplies Dimensional Drawings

CASE A, B & C

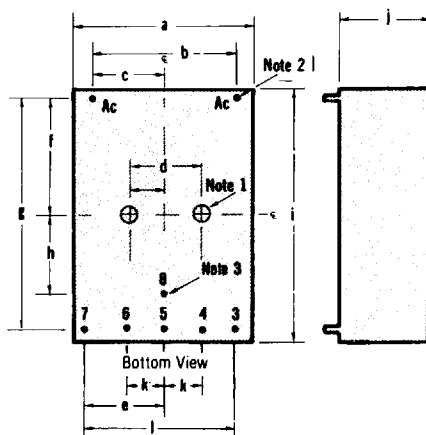


Notes:

1. 4-40 insert .125 (3) Deep Min.
2. All Pins .040 Diameter
3. Pin 6 provided only on M6 option models.
4. Optional pin spacing available at no charge.

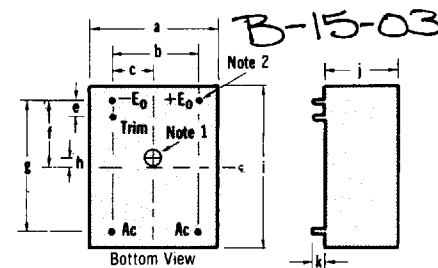
See columns a, i, and m below for package outlines.

CASE AT & CT

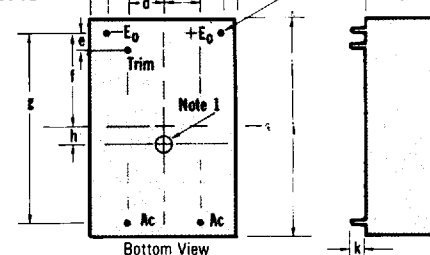


CASE CONFIGURATIONS

CASE J



CASE F

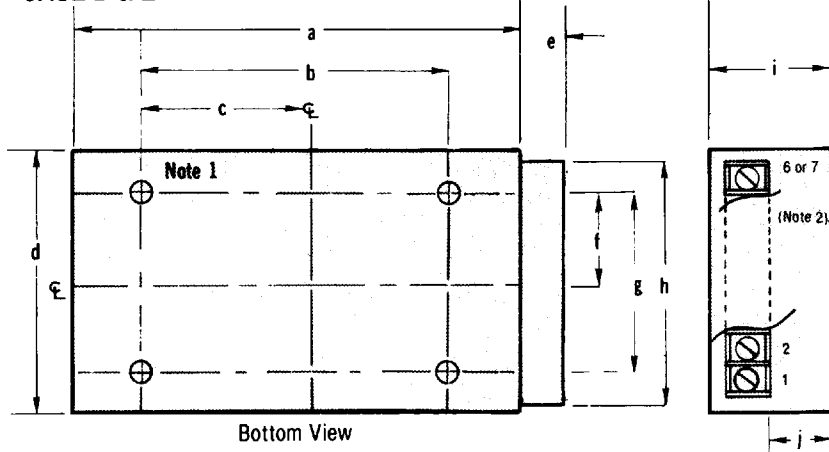


Notes:

1. 4-40 Insert .125 (3) Deep Min.
2. All Pins .040 (1) Diameter, .25 lg.
3. Pin 6 provided only on M6 Option Models.
4. Optional pin spacing available at no charge.

See columns a, i and j below for package outlines.

CASE D & E



Notes:

1. 4-40 Inserts .125 (3) Deep Min. (4 places).
2. Singles/Duals-6 terminals.

See columns a, d, and i for package outlines.

Case	a	b	c	d	e	f	g	h	i	j	k	l	m	n
A in(mm)	2.5(64)	2.2(56)	1.1(28)	1.6(40.6)	3.2(81)	1.1(28)	.5(12.5)	1.0(25.4)	3.5(89)		1.1(28)	2.2(56)	1.25(32)	.25(6.3)
B in(mm)	2.5(64)	2.2(56)	1.1(28)	1.6(40.6)	3.2(81)	1.1(28)	.5(12.5)	1.0(25.4)	3.5(89)		1.1(28)	2.2(56)	.88(22)	.25(6.3)
C in(mm)	2.5(64)	2.2(56)	1.1(28)	1.6(40.6)	3.2(81)	1.1(28)	.5(12.5)	1.0(25.4)	3.5(89)		1.1(28)	2.2(56)	1.59(51)	.25(6.3)
	a	b	c	d	e	f	g	h	i	j	k	l		
J in(mm)	1.75(44.4)	1.20(30.5)	.60(15.2)		.20(5)	.92(23.5)	1.8 (45.7)	.125(3)	2.25(57)	1.00(25.4)	.25(6.3)			
F in(mm)	2.00(51)	1.60(40.6)	.80(20.3)	.50(12.7)	.20(5)	1.30(33)	2.60(66)	.25 (6.3)	3.00(76.2)	1.00(25.4)	.25(6.3)			
AT in(mm)	2.5 (64)	2.2 (56)	1.1 (28)	1.0 (25.5)	1.1 (28)	1.6 (40.6)	3.2 (81)	1.1 (28)	3.5 (89)	1.25(32)	.50(13)	2.2(56)		
CT in(mm)	2.5 (64)	2.2 (56)	1.1 (28)	1.0 (25.5)	1.1 (28)	1.6 (40.6)	3.2 (81)	1.1 (28)	3.5 (89)	1.59(51)	.50(13)	2.2(56)		
	a	b	c	d	e	f	g	h	i	j				
E in(mm)	4.00(101.6)	2.5(63.5)	1.25(31.7)	2.7(68.6)	.42(10.6)	1.0(25.4)	2.0(50.8)	2.4(61)	1.45(36.8)	.83(21.1)				
D in(mm)	4.00(101.6)	2.5(63.5)	1.25(31.7)	2.7(68.6)	.42(10.6)	1.0(25.4)	2.0(50.8)	2.4(61)	2.0 (50.8)	1.38(35)				