

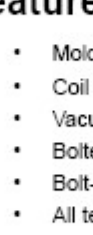
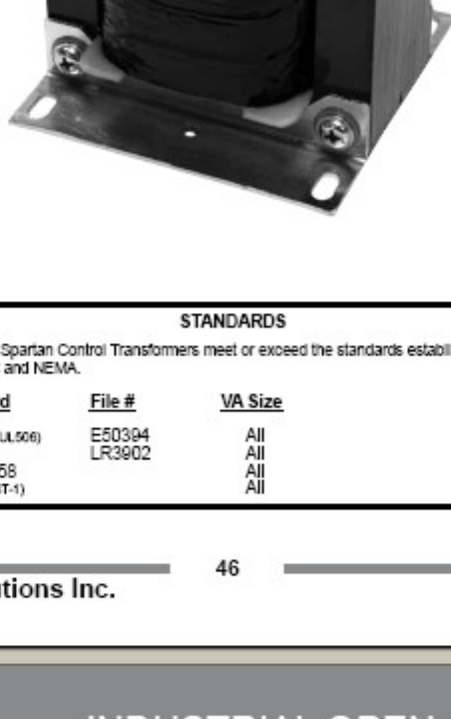
HPS Spartan® Industrial Open-Style Control Transformer

The Economical Solution

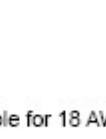
The HPS Spartan® line of industrial control transformers are ideally suited for general purpose, industrial and light duty loads. Designed for applications where high inrush or machine tool duty are not necessary, the HPS Spartan industrial open-style control transformer offers an efficient and economical solution. These units are well suited for HVAC applications, signal and alarm systems, motor control circuits, lighting and circuit isolation.

The HPS Spartan control transformer is an open style unit with molded terminal blocks up to 3000 VA or 30 amps. Optional finger guards and a fuse block adapter kit are available upon request.

For an economical approach to control transformers, the HPS Spartan is the transformer of choice.



STANDARDS		
The HPS Spartan Control Transformers meet or exceed the standards established by UL, CSA, IEC and NEMA.		
Standard	File #	VA Size
UL (ANSI/UL508)	E50304	All
CSA	LR3002	All
IEC 61558		All
NEMA (3T-1)		All



SECTION 1

INDUSTRIAL OPEN-STYLE CONTROL

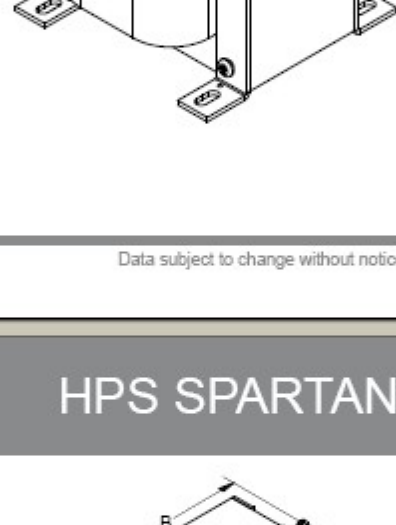
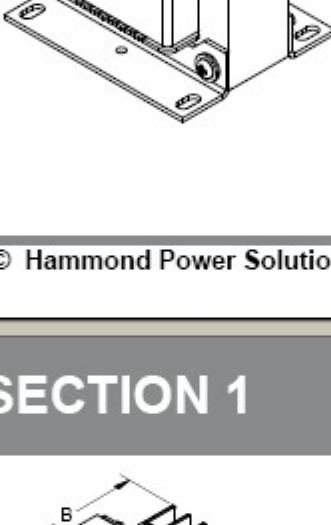
Features and Benefits

- Molded terminal blocks for primary and secondary connections¹
- Coil face termination over 3000VA or 30 amps
- Vacuum Impregnated with Polyester Resin and oven cured
- Bolted core construction
- Bolt-on mounting brackets
- All terminal blocks utilize a combination slot/Phillips #6 screw with a SEMS washer (suitable for 18 AWG to 14 AWG for solid wire and 18 AWG to 12 AWG for stranded wire). Coil face terminations utilize a ¼ - 20 UNC X 0.50" combination slot/Phillips screw and a spring lock washer
- All units supplied with primary and secondary voltage links/jumpers
- 50/60 Hz (60 Hz on SP***ACP and SP***AR)
- Copper wound coils with high dielectric strength insulation
- CSA Certified, UL Listed, CE Marked and RoHS compliant
- Meets NEMA standards
- Superior insulating materials. The HPS Spartan series transformers offer the following insulation systems:
 - Up to 1500 VA: 80°C rise, 130°C temperature class (B)
 - 2000 VA to 5000 VA: 115°C rise, 180°C temperature class (F)

- "Premium Packaging" which feature:
 - Premium fluted cartons
 - Custom molded foam inserts
 - Easy removal and repacking
 - Industry's best box label

- Supplied with trilingual installation and wiring instruction sheets
- 15 year warranty
- Optional finger guards available¹
- Optional fuse block adapter kit available¹

¹ up to and including 3000VA or 30 amps



SECTION 1

HPS SPARTAN®

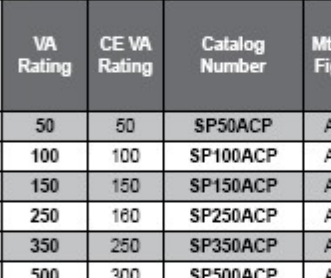


FIGURE A

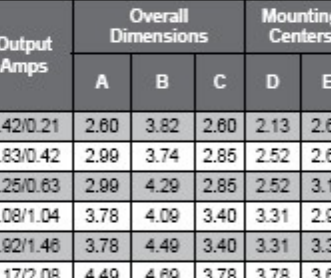


FIGURE B

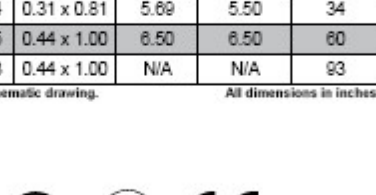


FIGURE C

Group A

Primary Voltage: 600/480 || 575/460 || 550/440

Secondary Voltage: 120 X 240 || 115 X 230 || 110 X 220



Primary Voltage: 600		575		550								60 Hertz	
Secondary Voltage: 12 X 24		11.5 X 23		11 X 22									
VA Rating	CE VA Rating	Catalog Number	Mtg. Fig.	Output Amps	Overall Dimensions			Mounting Centers		Mounting Slot G X H	Height with Finger Guard	Height with Fuse Block Adapter	Approx. Ship Weight Lbs.
					A	B	C	D	E				
50	50	SP50AR	A	4.17/2.08	2.60	3.23	2.60	2.13	2.05	0.22 x 0.44	2.98	2.79	1.5

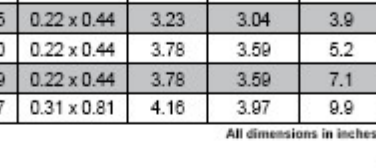
Primary and Secondary voltage links/jumpers supplied standard with all transformers. Refer to page 79 for wiring schematic drawing. All dimensions in inches.

* Note: For 750 through 2000 VA units actual overall depth is 0.24" plus the value in column B.

Group B

Primary Voltage: 600 || 575 || 550

Secondary Voltage: 12 X 24 || 11.5 X 23 || 11 X 22



VA Rating	CE VA Rating	Catalog Number	Mtg. Fig.	Output Amps	Overall Dimensions			Mounting Centers		Mounting Slot G X H	Height with Finger Guard	Height with Fuse Block Adapter	Approx. Ship Weight Lbs.
					A	B	C	D	E				
50	50	SP50AR	A	4.17/2.08	2.60	3.23	2.60	2.13	2.05	0.22 x 0.44	2.98	2.79	1.5
100	100	SP100AR	A	8.33/4.17	2.99	3.74	2.85	2.52	2.60	0.22 x 0.44	3.23	3.04	3.3
150	150	SP150AR	A	12.5/6.25	2.99	4.09	2.85	2.52	2.95	0.22 x 0.44	3.23	3.04	3.9
250	160	SP250AR	A	20.8/10.4	3.78	4.09	3.40	3.31	2.99	0.22 x 0.44	3.78	3.59	6.2
350	250	SP350AR	A	29.2/14.6	3.78	4.29	3.40	3.31	3.19	0.22 x 0.44	3.78	3.59	7.1
500	300	SP500AR	B	41.7/20.8	4.49	5.08	3.78	3.78	3.27	0.31 x 0.81	4.16	3.97	9.9

Primary and Secondary voltage links/jumpers supplied standard with all transformers. Refer to page 79 for wiring schematic drawing. Custom voltages and VA sizes available upon request. All dimensions in inches.

* Note: For 750 through 2000 VA units actual overall depth is 0.24" plus the value in column B.



SECTION 1

INDUSTRIAL OPEN-STYLE CONTROL

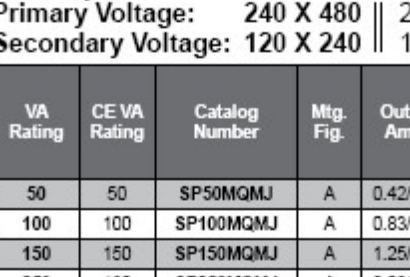


FIGURE A

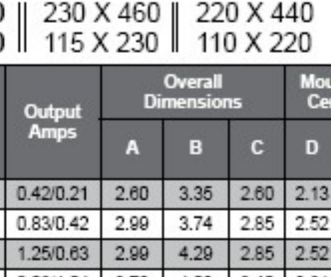


FIGURE B

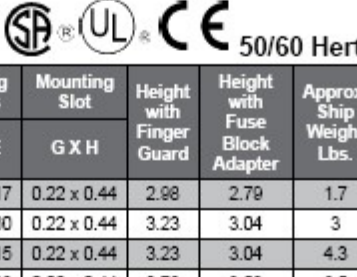
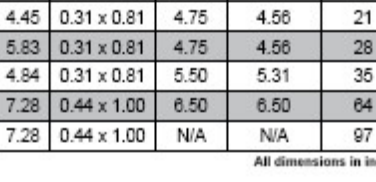


FIGURE C

Group C

Primary Voltage: 240 X 480 || 230 X 460 || 220 X 440

Secondary Voltage: 120 X 240 || 115 X 230 || 110 X 220



Refer to page 76 for wiring schematic drawing. Custom voltages and VA sizes available upon request.
 * Note: For 750 through 2000 VA units, actual overall depth is 5.24" plus the value in column B.

Group D

Primary Voltage: 240 X 480 | 230 X 460 | 220 X 440
 Secondary Voltage: 12 X 24 | 11.5 X 23 | 11 X 22

   50/60 Her

VA	CE VA	Catalog	Mtg.	Output	Overall Dimensions	Mounting Centers	Mounting Slot	Height with	Height with	Appr			
50	50	SP50MQMJ	A	0.42/0.21	2.60	3.35	2.60	2.13	2.17	0.22 x 0.44	2.98	2.79	1.7
100	100	SP100MQMJ	A	0.83/0.42	2.99	3.74	2.85	2.52	2.60	0.22 x 0.44	3.23	3.04	3
150	150	SP150MQMJ	A	1.25/0.63	2.99	4.29	2.85	2.52	3.15	0.22 x 0.44	3.23	3.04	4.3
250	160	SP250MQMJ	A	2.08/1.04	3.78	4.09	3.40	3.31	2.99	0.22 x 0.44	3.78	3.59	6.5
350	250	SP350MQMJ	A	2.92/1.46	3.78	4.69	3.40	3.31	3.58	0.22 x 0.44	3.78	3.59	8.2
500	300	SP500MQMJ	A	4.17/2.08	4.49	4.69	3.78	3.78	3.66	0.31 x 0.81	4.16	3.97	11
750	500	SP750MQMJ	A	6.25/3.13	5.25	4.69	4.37	4.50	3.66	0.31 x 0.81	4.75	4.56	16
1000	650	SP1000MQMJ	A	8.33/4.17	5.25	5.47	4.37	4.50	4.45	0.31 x 0.81	4.75	4.56	21
1500	1000	SP1500MQMJ	A	12.5/6.25	5.25	6.85	4.37	4.50	5.83	0.31 x 0.81	4.75	4.56	28
2000	1300	SP2000MQMJ	A	16.78/8.33	6.38	5.87	5.31	5.75	4.84	0.31 x 0.81	5.50	5.31	35
3000	2000	SP3000MQMJ	A	25.0/12.5	7.50	6.60	6.30	7.28	6.44 x 1.00	6.50	6.50	64	
5000	3000	SP5000MQMJ	C	41.7/20.8	8.98	8.88	7.76	7.40	7.28	0.44 x 1.00	N/A	N/A	97

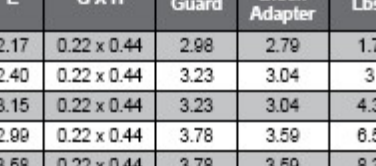
Primary and Secondary voltage links/jumpers supplied standard with all transformers. Refer to page 76 for wiring schematic drawing. Custom voltages and VA sizes available upon request. All dimensions in inches.

* Note: For 750 through 2000 VA units actual overall depth is 0.24" plus the value in column B.

Group D

Primary Voltage: 240 X 480 || 230 X 460 || 220 X 440

Secondary Voltage: 12 X 24 || 11.5 X 23 || 11 X 22



VA Rating	CE VA Rating	Catalog Number	Mtg. Fig.	Output Amps	Overall Dimensions			Mounting Centers		Mounting Slot G X H	Height with Finger Guard	Height with Fuse Block Adapter	Approx. Ship Weight Lbs.
					A	B	C	D	E				
50	50	SP50QR	A	4.17/2.08	2.60	3.35	2.60	2.13	2.17	0.22 x 0.44	2.98	2.79	1.7
100	100	SP100QR	A	8.33/4.17	2.99	3.74	2.85	2.52	2.60	0.22 x 0.44	3.23	3.04	3
150	150	SP150QR	A	12.5/6.25	2.99	4.29	2.85	2.52	3.15	0.22 x 0.44	3.23	3.04	4.3
250	160	SP250QR	A	20.8/10.4	3.78	4.09	3.40	3.31	2.99	0.22 x 0.44	3.78	3.59	6.5
350	250	SP350QR	A	29.2/14.6	3.78	4.69	3.40	3.31	3.58	0.22 x 0.44	3.78	3.59	8.3
500	300	SP500QR	B	41.7/20.8	4.49	5.47	3.78	3.78	3.66	0.31 x 0.81	4.16	3.97	11

Primary and Secondary voltage links/jumpers supplied standard with all transformers. Refer to page 76 for wiring schematic drawing. Custom voltages and VA sizes available upon request. All dimensions in inches.

* Note: For 750 through 2000 VA units actual overall depth is 0.24" plus the value in column B.



SECTION 1

HPS SPARTAN®

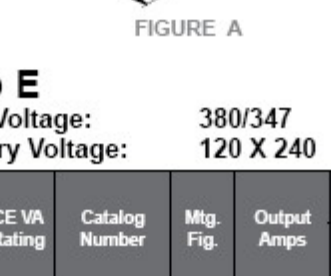


FIGURE A

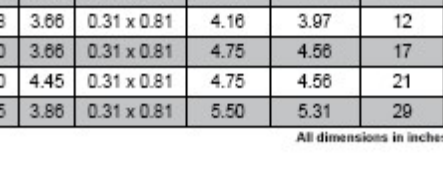


FIGURE B

Group E

Primary Voltage: 380/347

Secondary Voltage: 120 X 240



Group F

Primary Voltage:

380/347

Secondary Voltage:

12 X 24

50/60 Hertz