

Electrical Specifications

Specifications subject to change without notice

Final two digits of the CSD number indicate maximum current rating in amperes.

Output Characteristics:	AC744	AC745	AC746	UNITS
	CSD2410	CSD2425	CSD2450	
Operating Voltage Range, 47-63 Hz	24 - 280			V rms
Max. Load Current	10	25	50	A rms
Min. Load Current	0.1			A rms
Transient Overvoltage (Non-Repetitive)	600			V peak
Max. Surge Current (Non-Repetitive) 16.6 ms	120	250	500	A peak
Max. Over Current (Non-Repetitive) 1 sec.	22	40	80	A rms
Max. On-State Voltage Drop (100mA-I _{RATED})	1.6			V peak
Max. I ² T for fusing (8.3 ms)	60	260	1040	A ² sec.
Thermal Resistance R _{θJC} (T _{jmax} = 115°C)	1.5	1.0	0.63	°C/W
Power Dissipation @ Max. Current	12	29	55	Watts
Max. Zero Voltage Turn-On	45			V peak
Max. Peak Repetitive Turn-on Voltage	10			V peak
Max. Off-State Leakage Current @ Rated Voltage	1.0			mA rms
Min. Off-State dv/dt (static) @ Max. Rated Voltage, 25°C	200			V / μs

Input Characteristics:

Control Voltage Range	3.5 - 15		Vdc
Max. Reverse Voltage	3.0		Vdc
Max. Turn-on Voltage	3.5		Vdc
Min. Turn-off Voltage	0.8		Vdc
Min. Input Impedance	330		ohms
Max. Input Current	@ 5 Vdc	13	mAdc
	@ 15 Vdc	45	mAdc
Max. Turn-on Time (@ 60 Hz)	8.3		msec
Max. Turn-off Time (@ 60 Hz)	8.3		msec

General Characteristics:

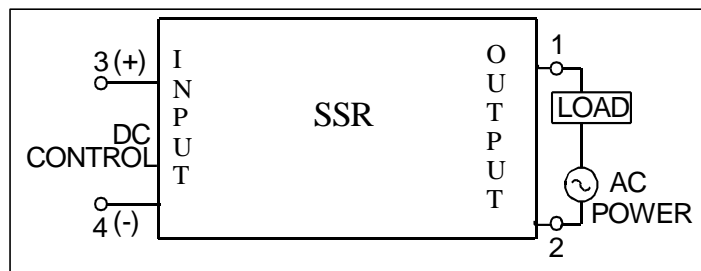
Dielectric Strength 50 - 60 Hz	Input to Output	4000	V rms
	Input and Output to Case	4000	V rms
Insulation Resistance @ 500 Vdc (for 1 minute)	10 ¹⁰		ohms
Max. Capacitance Input/Output	3.0		pf
Ambient Temperature Range	Operating	-30 to 80	°C
	Storage	-40 to 120	°C

Electrical Specifications: (-30°C ≤ TA ≤ 80°C) unless otherwise stated

Mechanical Specifications

Weight	4 oz. max.
Case Material	Fire retardant
Encapsulant	Thermally conductive epoxy
Case Color	Black
Base Plate	Aluminum, nickel plate
Terminals	Tin-plated brass, nickel plated screws & saddle clamps supplied unmounted

SSR Pinout and Wiring



Minco (Main Office)
7300 Commerce Lane
Minneapolis, MN
55432
USA
Tel: 1.763.571.3121
Fax: 1.763.571.0927

**Customer Service/
Order Desk:**
Tel: 1.763.571.3123
Fax: 1.763.571.0942
custserv@minco.com
www.minco.com

Minco S.A.
Usine et Service
Commercial, Z.I.
09310 Aston, France
Tel: (33) 5 61 03 24 01
Fax: (33) 5 61 03 24 09

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www.minco.com