

s. Switch AC Power Loads up to 36 KW. AC Input Control Models. DC Input Control Models.

ELECTRICAL SPECIFICATIONS

OUTPUT CHARACTERISTICS

MODEL	AC Control
NUMBERS	DC Control
	Phase Controllable
Operating Voltage Range 47-63 Hz	Standard
	Phase Controllable -10 Models
Max. Load Current (See derating curves) ①	
Min. Load Current (-10 25 watt lamp)	
Transient Overvoltage ②	
Max. Surge Current 16.6 ms (Non-Repetitive) (See surge curves)	
Max. Over Current (Non-Repetitive) 1 sec.	
Max. On-State Voltage Drop @ Rated Current	
Max. I^2T for Fusing (8.3 ms)	
Thermal Resistance Junction-to-Case $R_{\theta JC}$ (T_J Max = 115°C)	
Power Dissipation @ Max. Current (See dissipation curves)	
Max. Zero Voltage Turn-on Zero Switching Only	
Max. Peak Repetitive Turn-on Voltage	
Max. Off-State Leakage Current @ Rated Voltage (-30°C T_A = 80°C)	
Min. Off-State dv/dt Static @ Max. Rated Voltage ③	

120 VAC			
A120Z	A1210	A1225	A1240
D120Z	D1210	D1225	D1240
—	D1210-10	D1225-10	D1240-10
24-140			
45-140			
2.5	10	25	40
40			
400			
22.5	120	250	625
5	22	40	80
3.5	1.6		
2.1	60	260	1620
8.5	1.48	1.02	0.63
6.3	12	29	46
15			
10			
8			
500			

240 VAC				
A240Z	A2410	A2425	A2440	A2450
D240Z	D2410	D2425	D2440	D2450
—	D2410-10	D2425-10	D2440-10	D2450-10
48-280				
90-280				
2.5	10	25	40	50
40				
600				
22.5	120	250	625	625
5	22	40	80	80
3.5	1.6			
2.1	60	260	1620	1620
8.5	1.48	1.02	0.63	0.63
6.3	12	29	46	55
30				
12				
10				
500				

INPUT CHARACTERISTICS

Control Voltage Range	
Max. Reverse Voltage	
Max. Turn-On Voltage (-30°C T_A = 80°C)	
Min. Turn-Off Voltage (-30°C T_A = 80°C)	
Min. Input Impedance	
Max. Input Current	
Max. Turn-On Time (@ 60 Hz)	
Max. Turn-Off Time (@ 60 Hz)	
Min. Input Pulse Width	
Minimum Pulse Termination Lead Time, T_{PT} See Figure 10	
Minimum Pulse Initiation Lead Time, T_{PI} See Figure 10	

DC INPUT MODELS (WITH "D" PREFIX)

3 to 32 VDC
-32 VDC
3.0 VDC
1.0 VDC
1500 OHMS
3.4mA (@ 5 VDC) 20mA (@ 28 VDC)
8.3 msec
8.3 msec
—
—
—

AC INPUT MODELS (V)

90 to 280 V _{RMS} (6)
—
90 V _{RMS}
10 V _{RMS}
60K OHMS
2mA (@ 120 VAC) 4mA
10 msec
40 msec
—
—
—

GENERAL CHARACTERISTICS

Dielectric Strength ④ ⑤ 50/60 Hz Input/Output/Base	
Insulation Resistance @ 500 VDC ①	
Max. Capacitance Input Output	
Ambient Temperature Range	Operating
	Storage

4000 V _{RMS}
10 ¹⁰ OHMS
8 pF
30°C to 80°C
-30°C to 80°C
-40°C to 120°C