

INPUT (CONTROL) SPECIFICATION

		Min	Max	Units
Control Range				
S24	D	4	30	Vdc
S48	R	4	30	Vdc
	D	5	30	Vdc
	A	90	240	Vac/dc
S60	D	5	30	Vdc
Input Current Range				
S	R/D	3	30	mA
S	A	3	8	mA
Must Turn-Off Voltage				
S	R/D		1	Vdc
S48	A		1	Vac
Input Resistance (Typical)				
S	R/D		1000	Ohms
S	A		30,000	Ohms
Reverse Voltage Protection				
S	R/D		30	V
S	A			NA

CONTROL CHARACTERISTICS

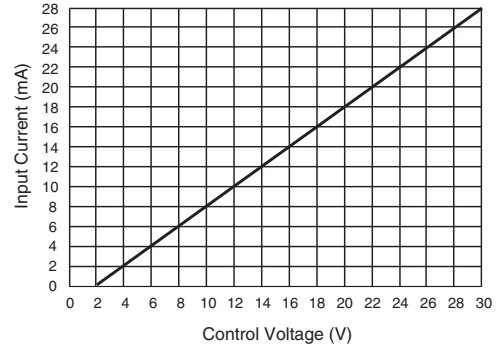


Figure 3a — S48R, S48D and S60D relays

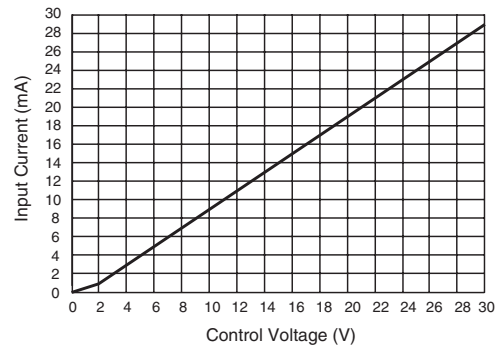


Figure 3b — S24D40 relay

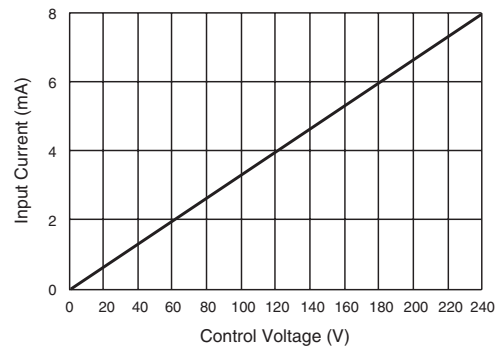


Figure 3c — S48A50 & S48A125 relays

OUTPUT (LOAD) SPECIFICATION

	Min	Max	Units
Operating Range			
S24	12	280	Vrms
S48	24	520	Vrms
S60	24	660	Vrms

	Min	Max	Units
Peak Voltage			
S24		600	Vpeak
S48		1200	Vpeak
S60		1600	Vpeak

	Min	Max	Units
Load Current Range (Resistive)			
40A output current	.005	40	Arms
50A output current	.005	50	Arms
75A output current	.005	75	Arms
125A output current	.005	125	Arms

	Min	Max	Units
Inductive Load Current			
40A output current		9	Arms
50A output current		12	Arms
75A output current		16	Arms
125A output current		30	Arms

	Min	Max	Units
Capacitive Load Current			
S60D125		48	Arms

	Min	Max	Units
Maximum Surge Current Rating (Non-Repetitive)			
40A output current		350	A
50A output current		550	A
75A output current		1000	A
125A output current		2000	A

OUTPUT (LOAD) SPECIFICATION (cont.)

	Min	Max	Units
On-State Voltage Drop			
40A output current		1.4	V
50A output current		1.4	V
75A output current		1.35	V
125A output current		1.3	V
S60D125		1.1	V

	Min	Max	Units
Zero-Cross Window (Typical)			
S	R	NA	V
S	D/A	±12	Vac

	Min	Max	Units
Off-State Leakage Current (60Hz)			
S24		3	mA
S48	D/A	3	mA
S48	R	2.5	mA
S60	D	3	mA

	Min	Max	Units
Turn-On Time (60Hz)			
S	R	0.1	ms
S	D	8.3	ms
S	A	24.9	ms

	Min	Max	Units
Turn-Off Time (60Hz)			
S	R/D	8.3	ms
S	A	24.9	ms

	Min	Max	Units
Off-State dv/dt			
All Relays		500	V/μs

	Min	Max	Units
Maximum di/dt (Non-repetitive)			
All Relays		50	A/μs

OUTPUT (LOAD) SPECIFICATION (cont.)

	Min	Max	Units
Operating Frequency	0.1	440	Hz
I²T for match fusing (<8.3ms)			
40A output current		612	A ² S
50A output current		1500	A ² S
75A output current		5000	A ² S
125A output current		20000	A ² S

ENVIRONMENTAL SPECIFICATION

	Min	Max	Units
Operating Temperature			
S48D50	-55	100	°C
All other P/Ns	-40	100	°C

Storage Temperature			
All Relays	-40	+100	°C

Input-Output Isolation			
All Relays		4000	Vrms

Output-Case Isolation			
40A output current	3300		Vrms
50A output current	3300		Vrms
75A output current	3300		Vrms
125A output current	3300		Vrms

NOTES:

1. Electrical specifications measured at 25 °C unless otherwise specified
2. For 800 Hz applications, contact factory.
3. For additional/custom options, contact factory

OPTIONAL ADD-ONS

- -12 : Thermal pad can be purchased separately or with /F part number
- -14 : Plastic touch proof cover

SURGE CURRENT

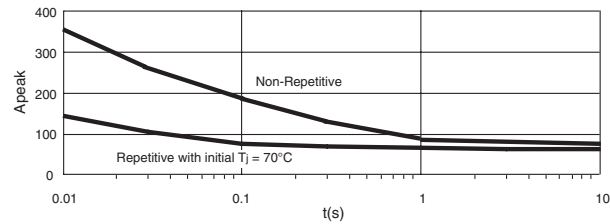


Figure 4a: 40A Output Current

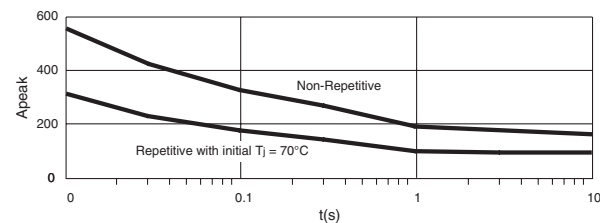


Figure 4b: 50A Output Current

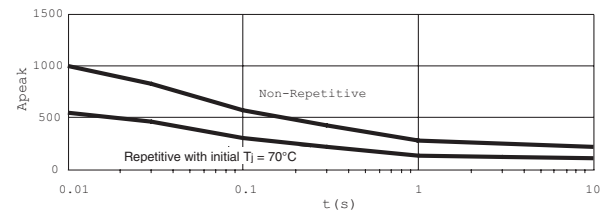


Figure 4c: 75A Output Current

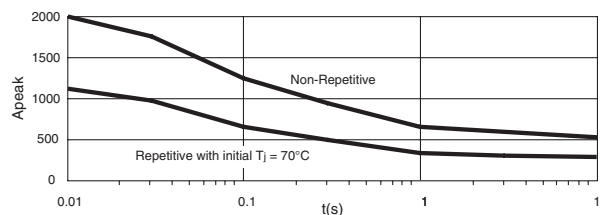


Figure 4d: 125A Output Current

THERMAL CHARACTERISTICS

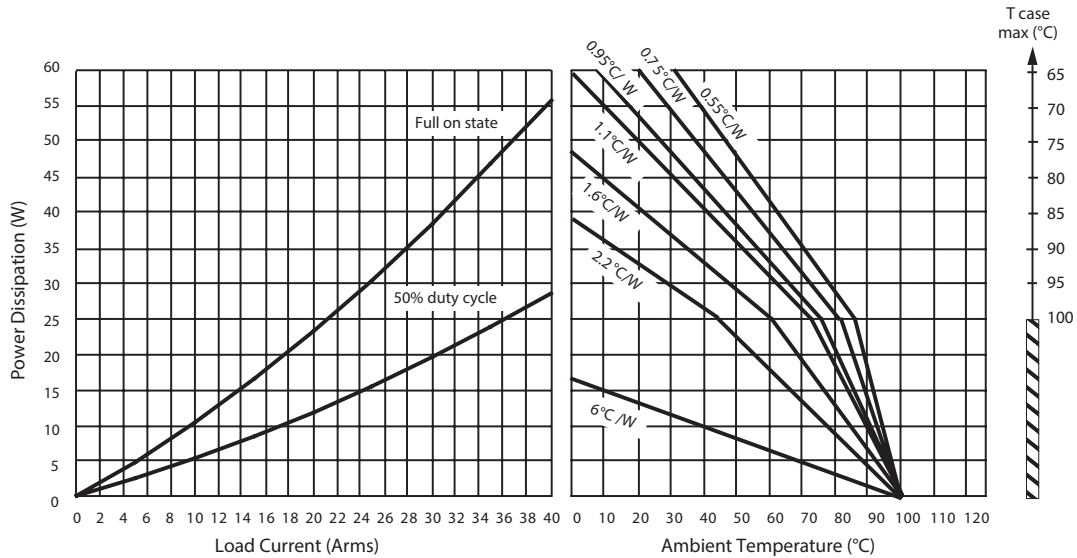


Figure 5a: 40A Output Current

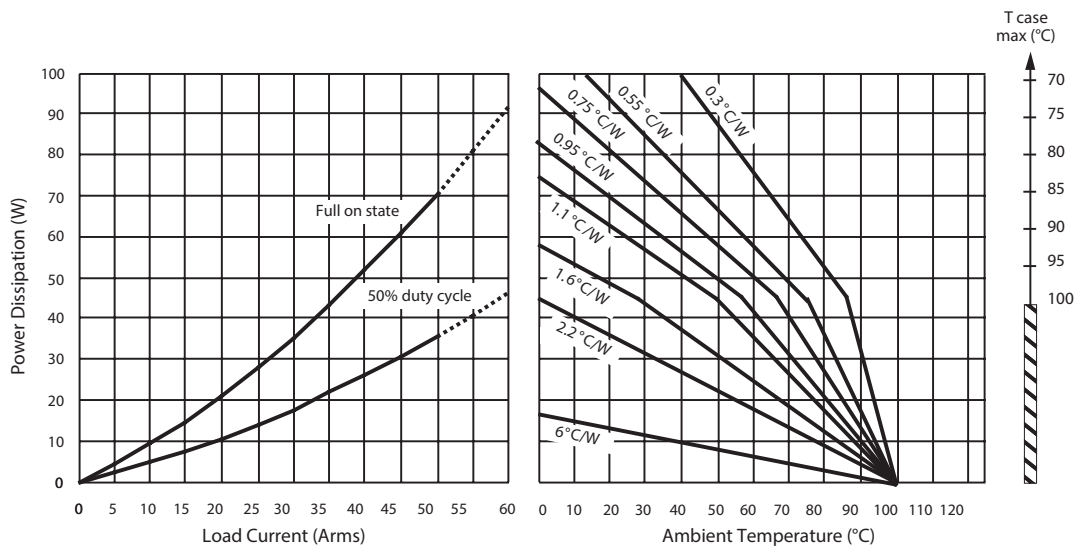


Figure 5b: 50A Output Current

THERMAL CHARACTERISTICS

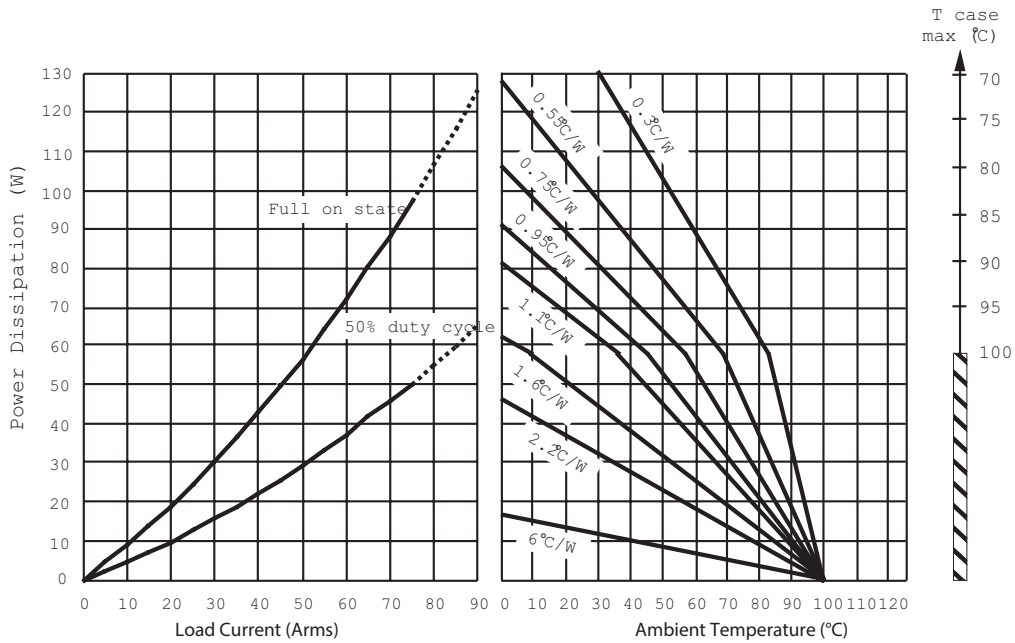


Figure 5c: 75A Output Current

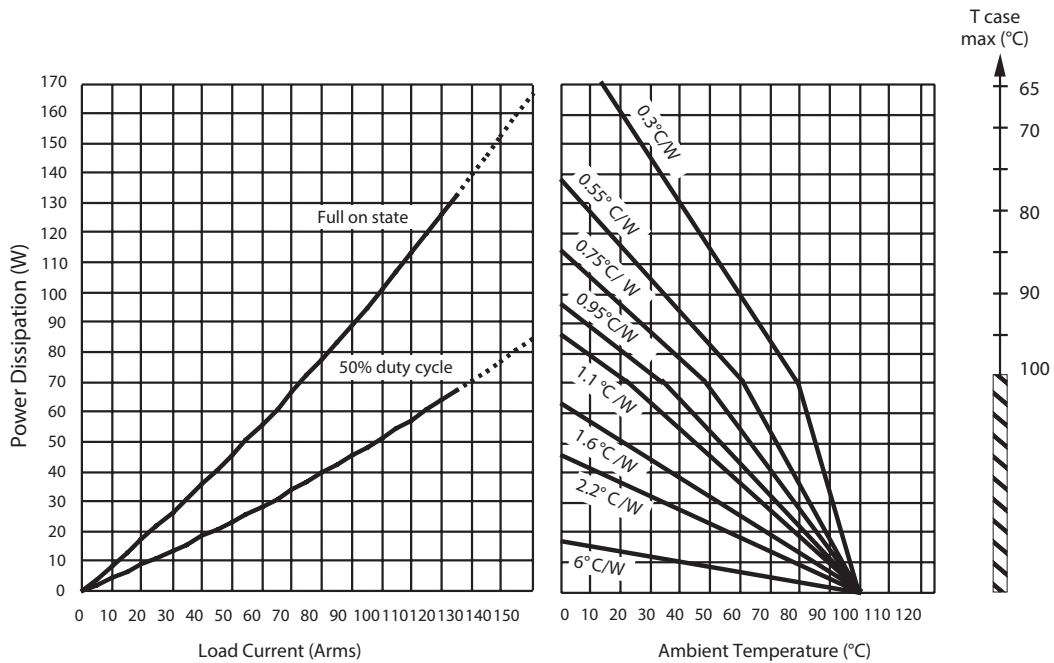


Figure 5d: 125A Output Current