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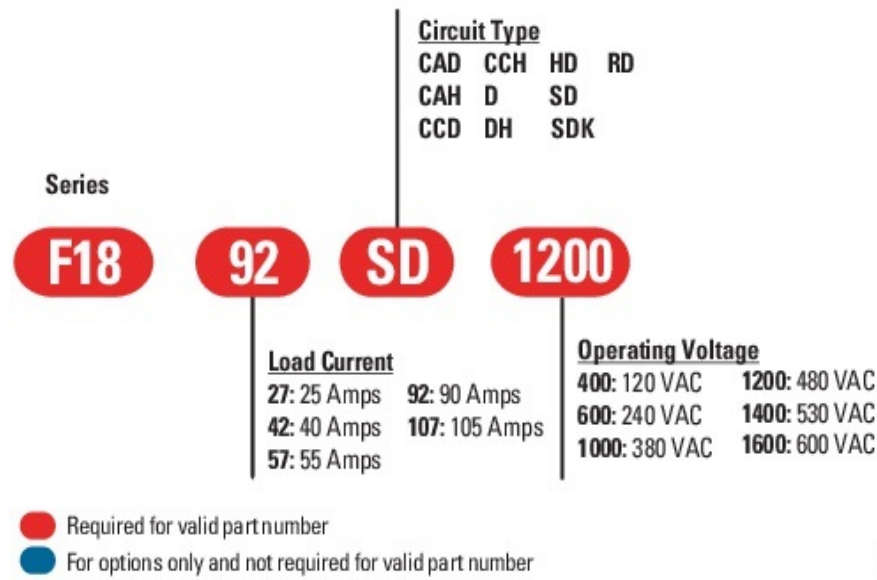
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F18 Series



- Industry Standard Package and Circuits
- Power Control Building Blocks
- 10 Circuits to Choose from
- UL Recognized E72445

AVAILABLE OPTIONS



ELECTRICAL SPECIFICATIONS

	Symbol	27	42	57	92	107(2)
Maximum DC Output Current (Tc = 85°C)	I _D	25 A	40 A	55 A	90 A	105 A
Maximum Voltage Drop @ Amps Peak	V _F	1.55V @ 75 A	1.4V @ 120 A	1.4V @ 165 A	1.40V @ 270 A	1.65V @ 300 A
Operating Junction Temperature Range	T _J	-40 - 125° C	-40 - 125° C	-40 - 125° C	-40 - 125° C	-40 - 125° C
Critical Rate of Rise of On-State Current @ T _J =125°C [A/μs]	di/dt	100	100	100	100	100
Critical Rate of Rise of Off-State Voltage [V/μs]	dv/dt	1000	1000	1000	1000	1000
Repetitive Peak Reverse Voltage (AC Line Nominal) [Vpk]	V _{RRM}	400 (120 VAC)				
		600 (240 VAC)				
		800 (280 VAC)				
		1200 (480 VAC)				
		1400 (530 VAC)				
Maximum Non-Repetitive Surge Current (1/2 Cycle, 60 Hz) [A]	I _{TSM}	1600 (600 VAC)				
		400	1000	1500	1950	2250
Maximum I ² T for Fusing (t=8.3ms) [A ² sec]	I ² T	670	4150	9350	15800	25000
Maximum Required Gate Current to Trigger @ 25°C [mA]	I _{GT}	150	150	150	150	150
Maximum Required Gate Voltage to Trigger @ 25°C [V]	V _{GT}	3.0	3.0	3.0	3.0	3.0
Average Gate Power [W]	P _{G(AV)}	0.5	0.5	0.5	0.5	0.5
Maximum Peak Reverse Gate Voltage [V]	V _{GM}	5.0	5.0	5.0	5.0	5.0
Maximum Thermal Resistance, Junction to Ceramic Base per Chip [°C/W]	R _{JC}	0.4	0.28	0.25	0.14	0.135
Isolation Voltage [Vrms]	V _{ISDL}	2500	2500	2500	2500	2500

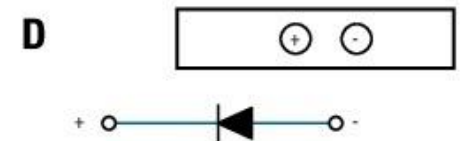
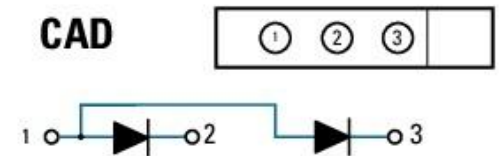
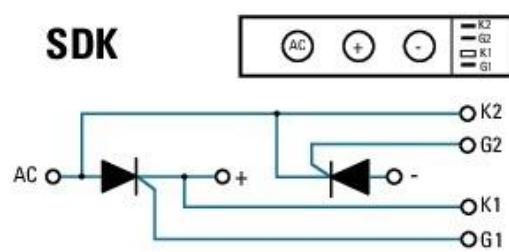
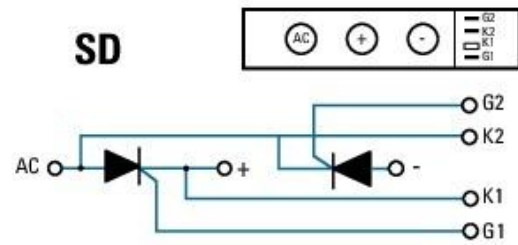
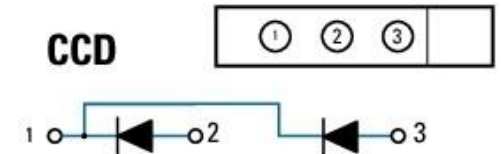
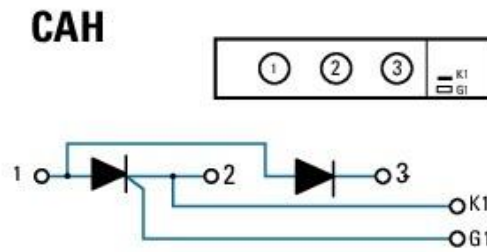
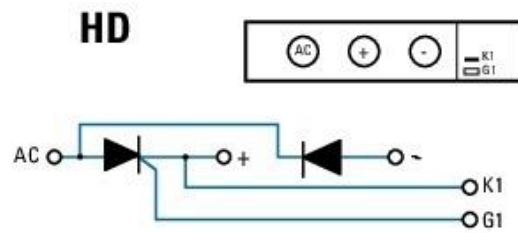
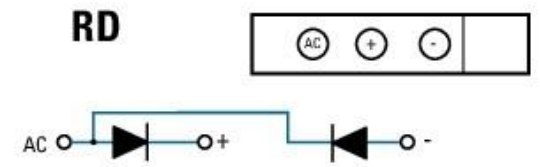
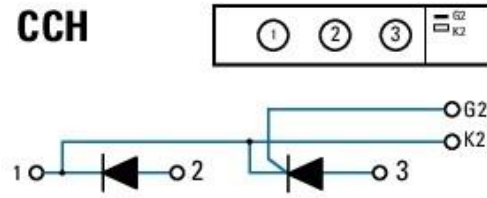
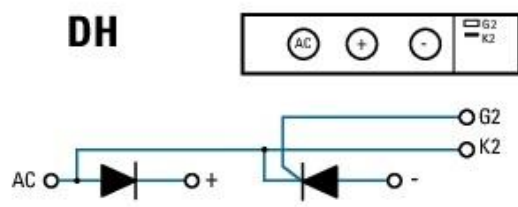
GENERAL SPECIFICATIONS

Description	Parameters
Weight (typical)	4.75 oz (135g)
Torque Required	Terminal Stud Screw : 30 in. lbs. Mounting Screws : 20 in. lbs.

GENERAL NOTES

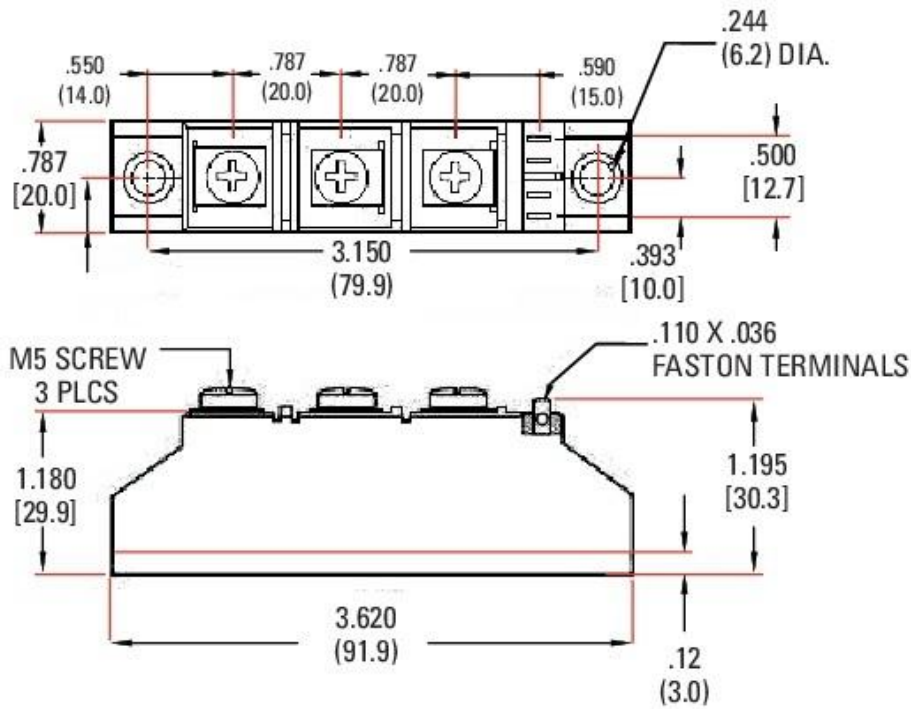
- (1) All parameters at 25°C and per section unless otherwise specified.
 (2) Available only in SD and SDK circuit configuration.

CIRCUIT DIAGRAMS



MECHANICAL SPECIFICATIONS

Tolerances: ±0.02 in / 0.5 mm
All dimensions are in: inches [millimeters]



Agency Approvals

