

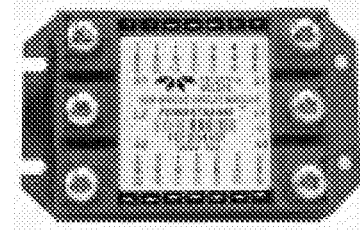
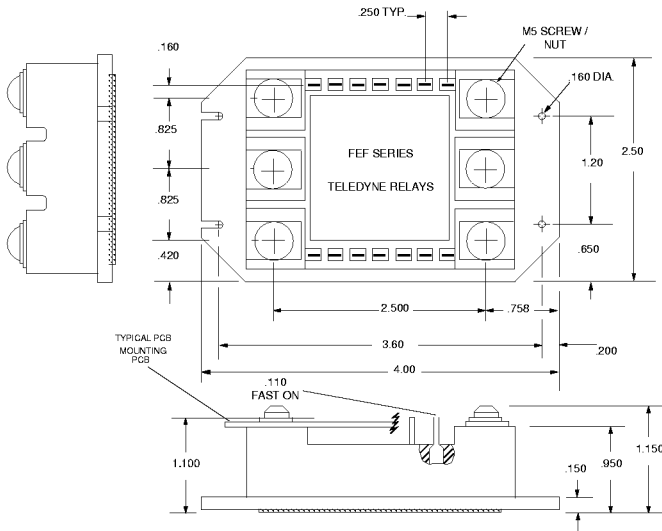
PART NUMBERS

Package Style	Current (Amps)	Circuit Type	AC Line Voltage	Options	
	1Ø 3Ø	AC SW			
FEF Series Designator	D - 50 E - 75 F - 100 G - 125	70 100 135 180	55 85 110 140	(see schematic diagrams) Example: 01	B - 400 (120 Vac) C - 600 (240 Vac) E - 1000 (380 Vac) F - 1200 (480 Vac)
				F - Free Wheeling Diode -012 EZ Mount™	

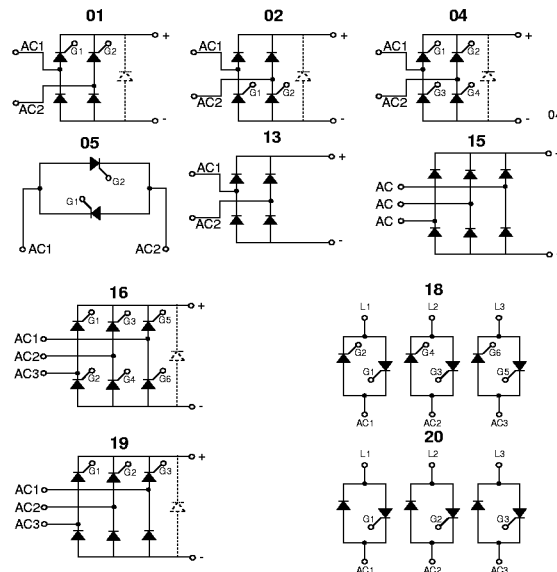
Add Options Suffix to Part Number; as desired, in order shown.

Part Number Example: **FEFD01BF-012**

MECHANICAL SPECIFICATION



SERIES FEF CIRCUIT TYPES



ELECTRICAL SPECIFICATIONS

SYMBOL SPECIFICATION	RATINGS			
	D	E	F	G
I _D Maximum DC Output Current @Tc=85°C(A)	(See Part Number Identification for Ratings of Single Phase, Three Phase and AC Switch Circuits)			
V _F Maximum Voltage Drop @Amps Peak	1.7V@50A	1.85V@75A	1.4V@100A	1.55V@125A
T _J Operating Junction Temperature Range	-40°C to +125°C			
di/dt Critical Rate of Rise of On-State Current @Tj=125°C(A/μs)	100			
dv/dt Critical Rate of Rise of Off-State Voltage @Tj=125°C(V/μs)	500			
V _{RMS} AC Line Input Voltage (Repetitive Peak Reverse Voltage)	—400 (120 Vac)— —600 (240 Vac)— —1000 (380 Vac)— —1200 (480 Vac)—			
I _{TSM} Maximum Non-Repetitive Surge Current (A) [1/2 Cycle, 60Hz]	400	1000	1500	1950
I ² T Maximum I ² T for Fusing (A ² sec) [t=8.3ms]	650	1500	9340	15800
I _{GT} Maximum Required Gate Current to Trigger @25°C (mA)	60	80	150	150
V _{GT} Maximum Required Gate Voltage to Trigger @25°C (V)	2.5	3.0	3.0	3.0
P _{G(AV)} Average Gate Power	0.5W			
V _{GM} Maximum Peak Gate Voltage (Reverse)	5.0V			
R _{θjc} Maximum Thermal Resistance Junction to Ceramic Base per Chip	0.8°C/W	0.7°C/W	0.36°C/W 0.3°C/W	
V _{ISOL} Isolation Voltage	2500 VRMS			

FEATURES/BENEFITS

- Circuit Modules provide ratings up to 180 amps.
- Thermal managed construction yields superior thermal impedance and power cycling capabilities.
- Available in nine circuits.
- Exposed ceramic baseplate for reduced thermal resistance and best thermal performance.
- All models have 2500 Vrms isolation.
- UL Certified: File #E66830.

TYPICAL APPLICATIONS

- On/Off control of high power AC equipment.
- Motor control.
- Can be used singly or as a power control building blocks.