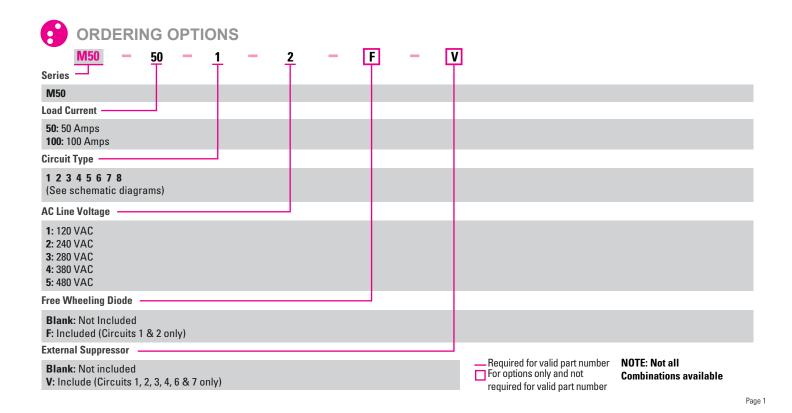
Sensata Technologies

| M50 SERIES POWER MODULES



Features

- Over 40KW output Capability
- 8 Different Circuits to Choose from
- 50 and 100 A outputs
- UL Recognized E72445





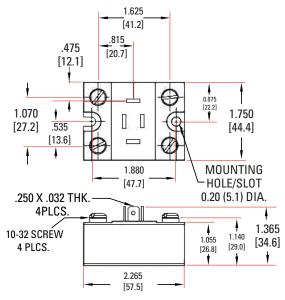
• ELECTRICAL SPECIFICATIONS

Description	Symbol	M5050		M50100
Maximum DC Output Current (Tc= 85°C)	lo lo	50 A		100 A
Maximum Voltage Drop @ Amps Peak	VF	1.35V @ 50A		1.2V @ 100 A
Operating Junction Temperature Range	TJ	-40 - 125°C		-40 - 125°C
			400 (120 VAC)	
			600 (240 VAC)	
Repetitive Peak Reverse Voltage (AC Line Nominal) [Vpk]	Vrrms		800 (280 VAC)	
			1200 (480 VAC)	
			1400 (530 VAC)	
			1600 (600 VAC)	
Maximum Non-Repetitive Surge Current (1/2 Cycle, 60 Hz) [A]	Ітѕм	800		1500
Maximum I ² t for Fusing (t=8.3ms)[A ² sec]	I ² T	2650		9350
Maximum Thermal Resistance, Junction to Ceramic Base per Chip [°C/W]	Ruc	0.45°C/W		0.3°C/W
Insolation Voltage [Vrms]	Visol		2500	
Weight (typical)			4.5 oz (158g)	

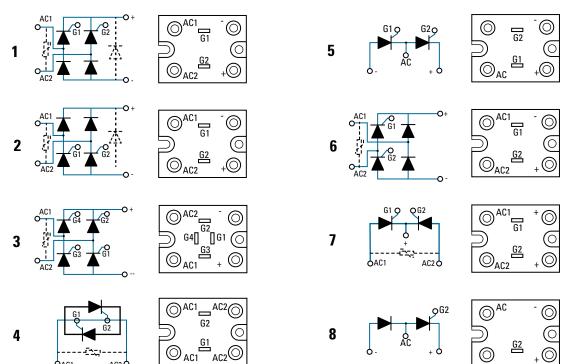
(3)

MECHANICAL SPECIFICATIONS

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

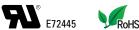


CIRCUIT DIAGRAMS



crydom°











RISK OF MATERIAL DAMAGE AND HOT ENCLOSURE

- The product's side panels may be hot, allow the product to cool before touching.
- Follow proper mounting instructions including torque values.
- Do not allow liquids or foreign objects to enter this product.

Failure to follow these instructions can result in serious injury, or equipment damage.



HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Disconnect all power before installing or working with this equipment.
- · Verify all connections and replace all covers before turning on power.

Failure to follow these instructions will result in death or serious injury.

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