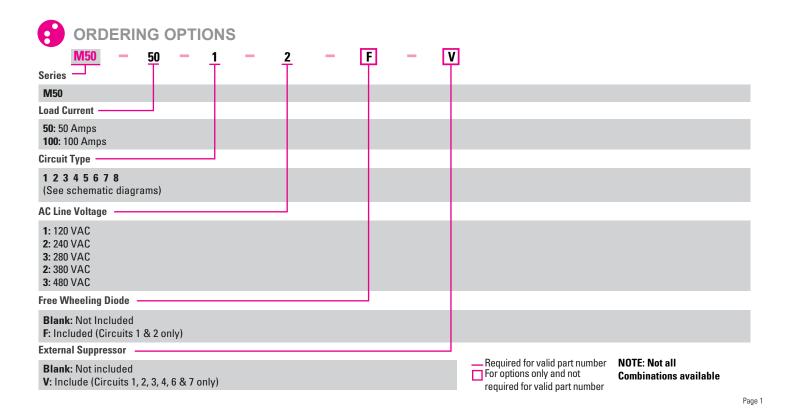
Sensata Technologies

| M50 SERIES POWER MODULES



Features

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





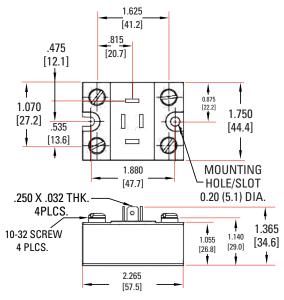
• ELECTRICAL SPECIFICATIONS

Description	Symbol	M5060		M50100
Maximum DC Output Current (Tc= 85°C)	lo lo	60 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)	

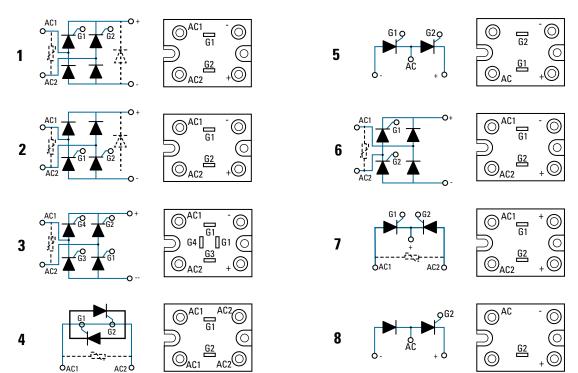
(3)

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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Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Sensata:

M5060THC600 M5060TB1600 M505012F M50100TB1600 M5060SB400 M5060SB600 M5060SB1200

M5010012 M5010012F M5010012FV M5010014F M5010015F M5010015FV M5010015V M5010055

M50100SB1000 M50100SB1200 M50100SB1600 M50100SB400 M50100SB600 M50100TB1000 M50100TB1200

M50100TB400 M50100TB600 M50100TB800 M505012FV M505012V M505013F M505014F M505015F

M505015FV M505022FV M505032 M505034 M505035V M505042 M505052 M505062 M5060CC1200

M5060CC1600 M5060CC600 M5060SB1000 M5060SB1600 M5060TB1000 M5060TB1200 M5060TB1400

M5060TB600 M5060THC1600 M5010013V M50100THA1600 M50100THC1600 M5060THA1200 M5060THC1200

M50100DD600 M5060CC400 M5010013F M5010015 M5010064 M5010064V M505042V M5060THA1600