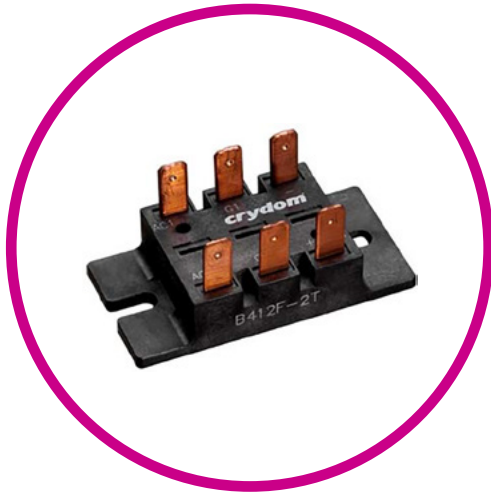




B48-2T, B48-2 | SERIES

POWER MODULES



Features

- Single and Three Phase Circuits
- 5 Different Circuits to Choose from
- Up to 1600 Volt Blocking Standard
- UL Recognized E72445



ELECTRICAL SPECIFICATIONS

	Symbol	Single Phase		Three Phase
Maximum DC Output Current (Tc = 85°C)	I_D	35A		50A
Maximum Voltage Drop @ Amps Peak	V_F	1.25V @ 35A		1.35V @ 50A
Operating Junction Temperature Range	T_J	-40 - 125°C		-40 - 125°C
			400 (120 VAC)	
			600 (240 VAC)	
Repetitive Peak Reverse Voltage (AC Line Nominal) [Vpk]	V_{RMS}		800 (280 VAC)	
			1200 (480 VAC)	
			1400 (530 VAC)	
			1600 (600 VAC)	
Maximum Non-Repetitive Surge Current (1/2 Cycle, 60 Hz)	I_{TSM}	600		600
Maximum I ² T for Fusing (t=8.3ms) [A ² sec]	I ² T	1500		1500
Maximum Thermal Resistance, Junction to Ceramic Base per Chip [°C/W]	R_{JC}	0.9°C/W		0.9°C/W
Isolation Voltage [Vrms]	V_{ISOL}		2500	

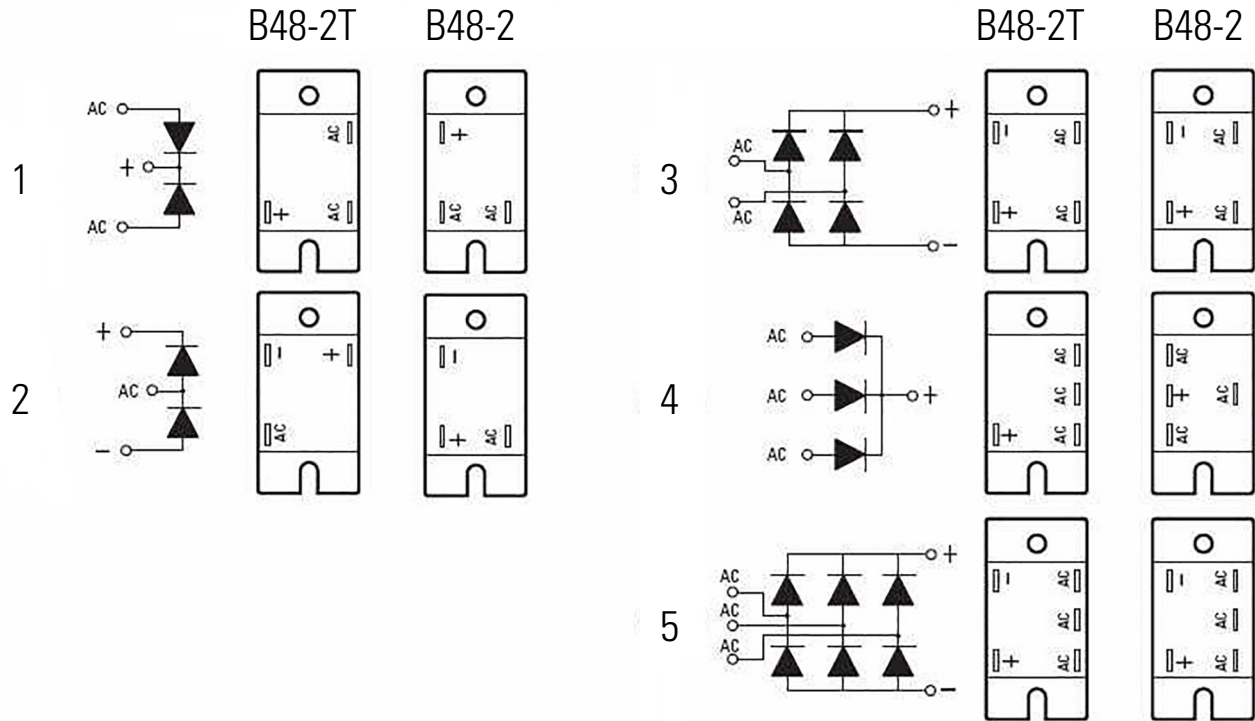


GENERAL SPECIFICATIONS

Description	Parameters
Weight (typical)	1.5 oz (42.5g)



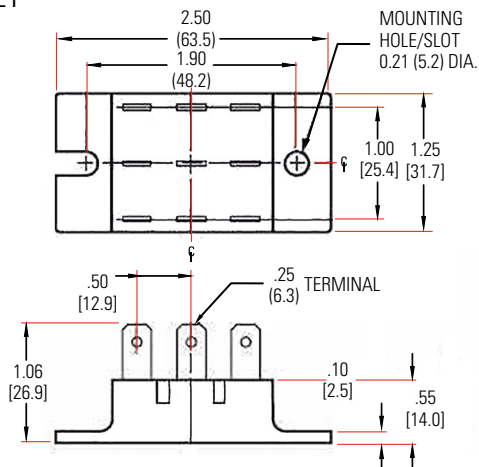
CIRCUIT DIAGRAMS



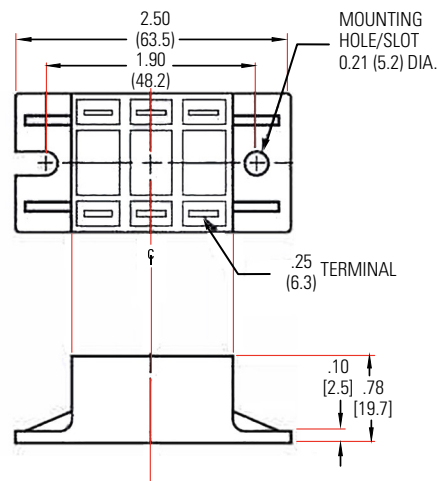
MECHANICAL SPECIFICATIONS

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

B48-2T



B48-2





Note: Not all combinations available

	B48	2	B	-2T
Series*				
B48				
Circuit Type*				
1 2 3 4 5 (see schematic diagrams)				
AC Line Voltage*				
B: 400 (120VAC) C: 600 (240VAC) E: 1000 (380VAC) F: 1200 (480VAC) G: 1400 (530VAC) H: 1600 (600VAC)				
Case Study*				
-2T: Standard -2: With Isolation Barriers				

*Required for valid part number

**For options only and not required for valid part number



AGENCY APPROVALS & CERTIFICATIONS



WARNINGS



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.

Sensata Technologies, Inc. ("Sensata") data sheets are solely intended to assist designers ("Buyers") who are developing systems that incorporate Sensata products (also referred to herein as "components"). Buyer understands and agrees that Buyer remains responsible for using its independent analysis, evaluation and judgment in designing Buyer's systems and products. Sensata data sheets have been created using standard laboratory conditions and engineering practices. Sensata has not conducted any testing other than that specifically described in the published documentation for a particular data sheet. Sensata may make corrections, enhancements, improvements and other changes to its data sheets or components without notice.

Buyers are authorized to use Sensata data sheets with the Sensata component(s) identified in each particular data sheet. HOWEVER, NO OTHER LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE TO ANY OTHER SENSATA INTELLECTUAL PROPERTY RIGHT, AND NO LICENSE TO ANY THIRD PARTY TECHNOLOGY OR INTELLECTUAL PROPERTY RIGHT, IS GRANTED HEREIN. SENSATA DATA SHEETS ARE PROVIDED "AS IS". SENSATA MAKES NO WARRANTIES OR REPRESENTATIONS WITH REGARD TO THE DATA SHEETS OR USE OF THE DATA SHEETS, EXPRESS, IMPLIED OR STATUTORY, INCLUDING ACCURACY OR COMPLETENESS. SENSATA DISCLAIMS ANY WARRANTY OF TITLE AND ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, QUIET ENJOYMENT, QUIET POSSESSION, AND NON-INFRINGEMENT OF ANY THIRD PARTY INTELLECTUAL PROPERTY RIGHTS WITH REGARD TO SENSATA DATA SHEETS OR USE THEREOF.

All products are sold subject to Sensata's terms and conditions of sale supplied at www.sensata.com SENSATA ASSUMES NO LIABILITY FOR APPLICATIONS ASSISTANCE OR THE DESIGN OF BUYERS' PRODUCTS. BUYER ACKNOWLEDGES AND AGREES THAT IT IS SOLELY RESPONSIBLE FOR COMPLIANCE WITH ALL LEGAL, REGULATORY AND SAFETY-RELATED REQUIREMENTS CONCERNING ITS PRODUCTS, AND ANY USE OF SENSATA COMPONENTS IN ITS APPLICATIONS, NOTWITHSTANDING ANY APPLICATIONS-RELATED INFORMATION OR SUPPORT THAT MAY BE PROVIDED BY SENSATA.

Mailing Address: Sensata Technologies, Inc., 529 Pleasant Street, Attleboro, MA 02703, USA.

CONTACT US

Americas

+1 (877) 502 5500
sales.crydom@sensata.com

Europe, Middle East & Africa

+44 (1202) 416170
ssr-info.eu@sensata.com

Asia Pacific

sales.isasia@list.sensata.com
 China +86 (21) 2306 1500
 Japan +81 (45) 277 7117
 Korea +82 (31) 601 2004
 India +91 (80) 67920890
 Rest of Asia +886 (2) 27602006
 ext 2808