

PERFORMANCE SPECIFICATION SHEET

CIRCUIT BREAKERS, REMOTE CONTROL, AC-DC, THERMAL, TRIP-FREE,
SERIES TRIP, TRIPLE POLE, AUXILIARY CONTACTS (5 TO 100 AMPERES)

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and [MIL-PRF-83383](#).

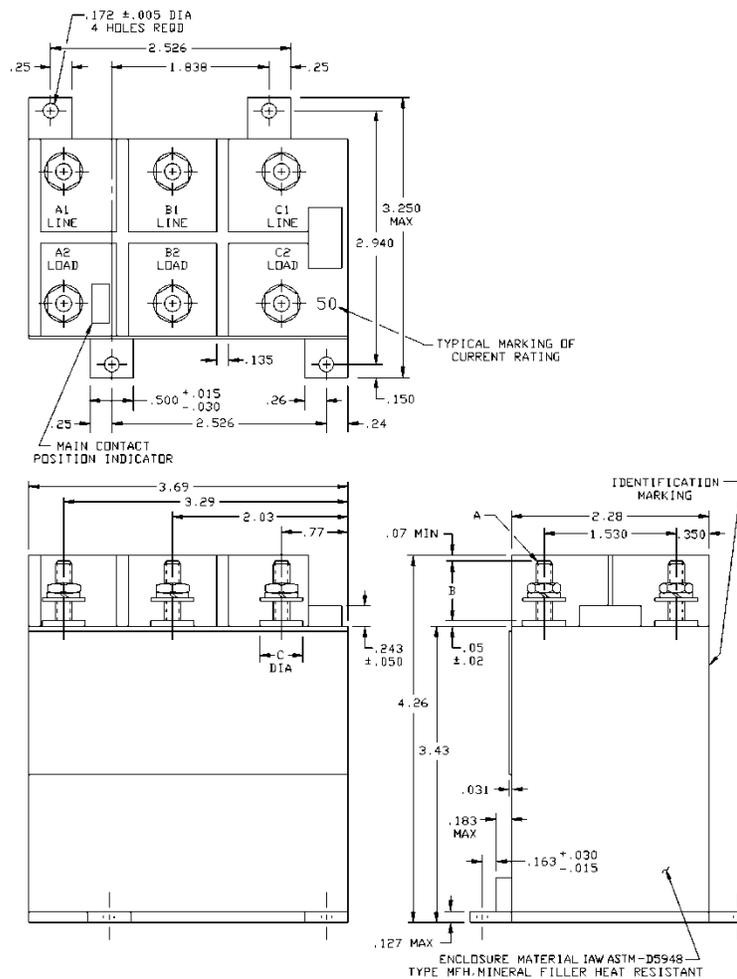


FIGURE 1. Dimensions and configuration.

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Current rating amperes	A	B +.030 -.000	C	Nut <u>1/</u>	Lock washer <u>2/</u>	Flat washer <u>3/</u>
5 to 25	.190-32UNC-2A	.500	.500	AN315-3R	MS35338-43	NAS1149F0332P
35 to 100	.250-28UNF-2A	.610	.610	AN315-4R	MS35338-44	NAS1149F0463P

1/ Part number is from National Aerospace Standard [NASM315](#).

2/ Part number is from National Aerospace Standard [NASM35338](#)

3/ Part number is from National Aerospace Standard [NAS1149](#).

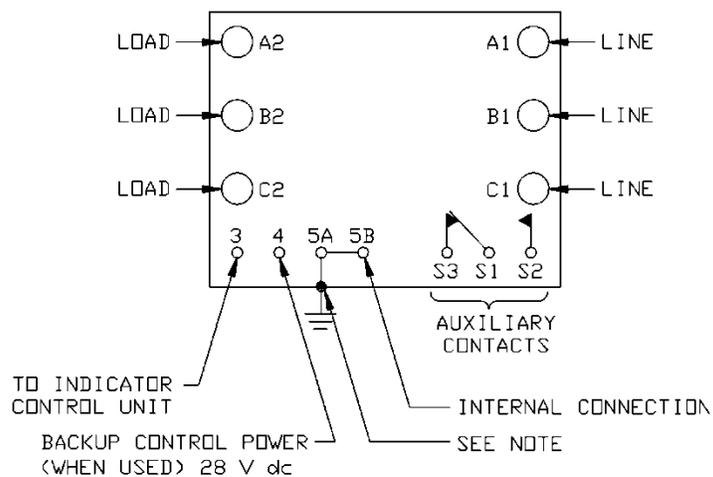
Inches	mm	Inches	mm	Inches	mm	Inches	mm
.015	0.38	.127	3.23	.500	12.70	2.526	64.16
.02	0.5	.163	4.14	.600	15.24	2.940	74.68
.030	0.76	.172	4.37	.610	15.49	3.250	82.55
.031	0.79	.183	4.65	.77	19.6	3.29	83.6
.050	1.27	.24	6.1	1.530	38.86	3.43	87.1
.07	1.8	.243	6.17	1.838	46.69	3.69	93.7
.135	3.43	.25	6.4	2.03	51.6	4.26	108.2
.150	3.81	.350	8.89	2.28	57.9		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is ± 0.015 (0.38 mm).

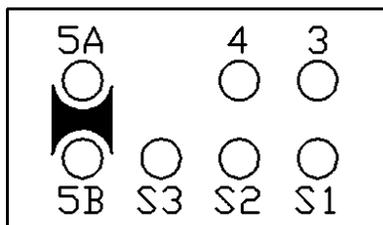
FIGURE 1. Dimensions and configuration - Continued.

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NOTE: Terminals 5A and 5B shall be internally grounded to the mounting leg(s).

FIGURE 2. Schematic.



Note: Terminal junction system (TJS) module shall accept pin contacts P/N M39029/1-100 or -101 as specified in [SAE-AS39029/1](#).

FIGURE 3. Terminal junction system module.

TABLE I. Dash numbers and characteristics.

Dash number	Current rating (amperes)	Tripping times from $-54^{\circ}\text{C} \pm 5^{\circ}\text{C}$ to $+71^{\circ}\text{C} \pm 5^{\circ}\text{C}$ (time in seconds)					
		Percent rated current					
		200		400		1000	
		Min	Max	Min	Max	Min	Max
01	5.0	7	80	1.2	10	.3	1.2
02	7.5	11	80	2.4	13	.33	1.1
03	10.0	12	80	2.8	11	.42	1.3
04	15.0	13	80	1.7	10	.35	1.2
05	20.0	14	80	2.9	9.6	.4	1.3
06	25.0	15	80	2.6	10	.4	1.3
07	35.0	16	80	2.8	11	.35	1.3
08	40.0	16	80	2.6	10	.36	1.3
09	50.0	13	80	2.9	10	.4	1.25
10	60.0	13	80	2.4	16	.26	1.8
11	75.0	13	80	2.5	16	.26	1.8
12	80.0	14	80	2.7	12.5	.3	2
13	100.0	17	63	3.5	13	.35	1.9

REQUIREMENTS:

Interface and physical dimensions: See figure 1.

Weight: 2.250 pounds (1,022 grams), maximum.

Trip indication: See figure 1.

Terminals: See figures 1 and 2.

Auxiliary contact terminals:

Contact capacity at 28 V dc and 115 V ac, 400 Hz shall be 3 amperes resistive, 1.5 amperes inductive, and 0.5 ampere lamp load.

Voltage rating: 115/200 V dc, 400 Hz.

Current ratings: See table I.

Tripping times: See table I.

Response time: 25 milliseconds.

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Power requirements and response time at minimum voltage:

Standby current drain and actuation current:

Test voltage: 28 ± 0.5 V dc to TJS module, then 200 ± 2 V line to line, 400 Hz, 3 phase ground neutral to line terminal. Actuating current, 6.0 amperes dc and 11 amperes ac rms maximum.

Maximum operating time at minimum voltage:

Test voltage: 181 V ac rms maximum line-to-line, 3 phase.

Endurance:

Electrical:

5 to 25 amperes: 30,000 cycles resistive or inductive or motor load or lamp load.

35 to 50 amperes: 30,000 cycles resistive or inductive or motor load or 25,000 cycles lamp load.

60 to 100 amperes: 30,000 cycles resistive or inductive load or 25,000 cycles motor load.

Interrupting capacities:

G - 3,600 amperes, single phase and 2,160 amperes, three phase.

H - 3,600 amperes, single phase and 2,160 amperes, three phase.

Other marking:

Current rating: See figure 1.

Line and load terminals: See figure 1.

Terminal junction system (TJS) module: See figure 3.

Position indication: See figure 1. Indication is provided by a lens over "open" and "closed" on red and green background.

Part or Identifying Number (PIN): M83383/04- (dash number from table I) (e.g., M83383/04-01).

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Indicator/control unit (I/CU): In order to maintain compatibility between the RCCB and the I/CU, the following must be observed when making an I/CU selection:

- a. The I/CU must be a ½ ampere rated circuit breaker (P/N MS22073-1/2 or P/N MS26574-1/2, as specified in [SAE-AS58091](#), or equivalent).
- b. The line impedance (terminal 3 to I/CU) plus the I/CU impedance must not exceed 7.5 ohms.
- c. The I/CU must respond to a decreasing current pulse of $I^2t \leq 2$ throughout the temperature range.

CAUTION TO USERS:

Coordination between devices supplied by different manufacturers should be verified by the user.

Referenced documents. In addition to [MIL-PRF-83383](#), this document references the following:

[ASTM-D5948](#) [NASM315](#) [NASM35338](#) [NAS1149](#)
[SAE-AS58091](#) [SAE-AS39029/1](#)

The margins of this specification are marked with vertical lines to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

Custodians:
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(Project 5925-2011-013)

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