



HERMETIC RELAY 2PDT — 10 A

Series
2TM-7600

Product Description

Hermetically sealed, polarized monostable relay with two changeover contacts. The 2TM-7600 series uses a DC coil without internal transient suppression. MIL-PRF-83536/9A configuration references are listed on pages 4–5; they do not establish military qualification.

Construction Features

- 2 form C contacts, rated up to 10 A
- All-metal welded enclosure
- DC coil, approximately 2.8 W
- Without internal coil suppression
- Ambient operating range –65°C to +125°C



Illustrative image

Environmental and Physical Specifications

Parameter	Specified data
Ambient temperature	–65°C to +125°C
Humidity / low air pressure	98% at 40°C / 4.39 kPa
Sinusoidal vibration	294 m/s ² ; 10 to 3000 Hz
Shock resistance	1960 m/s ² ; pulse duration not specified in the technical documentation
Random vibration / steady acceleration	40 (m/s ²) ² /Hz / 490 m/s ²
Hermetic leakage rate maximum	1×10^{-3} Pa·cm ³ /s
Weight / operating position	46 g maximum / random

Contact Load and Electrical Life

Load	28 Vdc	115 Vac 400 Hz Single phase	Minimum operations
Resistive	10 A	10 A	100,000
Inductive	8 A	8 A	20,000
Motor	4 A	Not specified	100,000
Lamp	2 A	Not specified	100,000

No 50/60 Hz or three-phase rating is asserted here. The source contact-data row states “1 C”, while its title and wiring diagram show 2 form C; this inconsistency requires technical confirmation.



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Electrical Characteristics

Parameter	Specified data
Initial contact resistance / voltage drop after life	0.01 Ω maximum / 0.125 V maximum
Operate time / release time	10 ms maximum / 10 ms maximum
Insulation resistance at 500 Vdc	100 M Ω initial; 50 M Ω after life or testing
Dielectric strength, normal conditions	Coil to case: 1000 Vrms; other points: 1250 Vrms initial, 1000 Vrms after life
Dielectric strength, low air pressure	350 Vrms
Coil suppression	None

Coil Table

Coil reference	Nom / max Vdc	R min Ω at 25°C	25°C PU / H / DO	-65...+125°C PU / H / DO	PU max HT / CC
006	6 / 7.3	18	3.2 / 1.6 / 0.4	4.5 / 2.3 / 0.25	5.0 / 5.7
012	12 / 14.5	72	6.5 / 3.3 / 0.75	9.0 / 4.5 / 0.5	9.9 / 11.25
028	28 / 29	280	15.5 / 5.5 / 2.3	20.0 / 7.0 / 1.5	21.0 / 25.0

All voltage values are Vdc. PU = pickup maximum; H = hold maximum; DO = dropout minimum; HT = high-temperature test; CC = continuous-current test. A 48 V coil and 32 V operation at +85°C are not documented for this series.

How to Order

2TM-7600	019	A
Series	Configuration dash 001–038, pages 4–5	Reliability request A = L; B = M

Example: 2TM-7600-019A = 28 V, no mount, solder pins, requested level L, without internal coil suppression. No wiring suffix is used.

Reliability: A requests MIL level L (3.0% per 10,000 operations); B requests M (1.0%). The supporting technical documentation establishes only a level L option or no failure-rate requirement. Every B version requires separate reliability evidence; A also requires validation against the applicable MIL qualification and test programme. P and R are MIL options outside the agreed HI-G A/B range.

Order release: confirm all pending configurations and qualification requirements before supply. Unsupported dash numbers are reserved references, not confirmed available products.

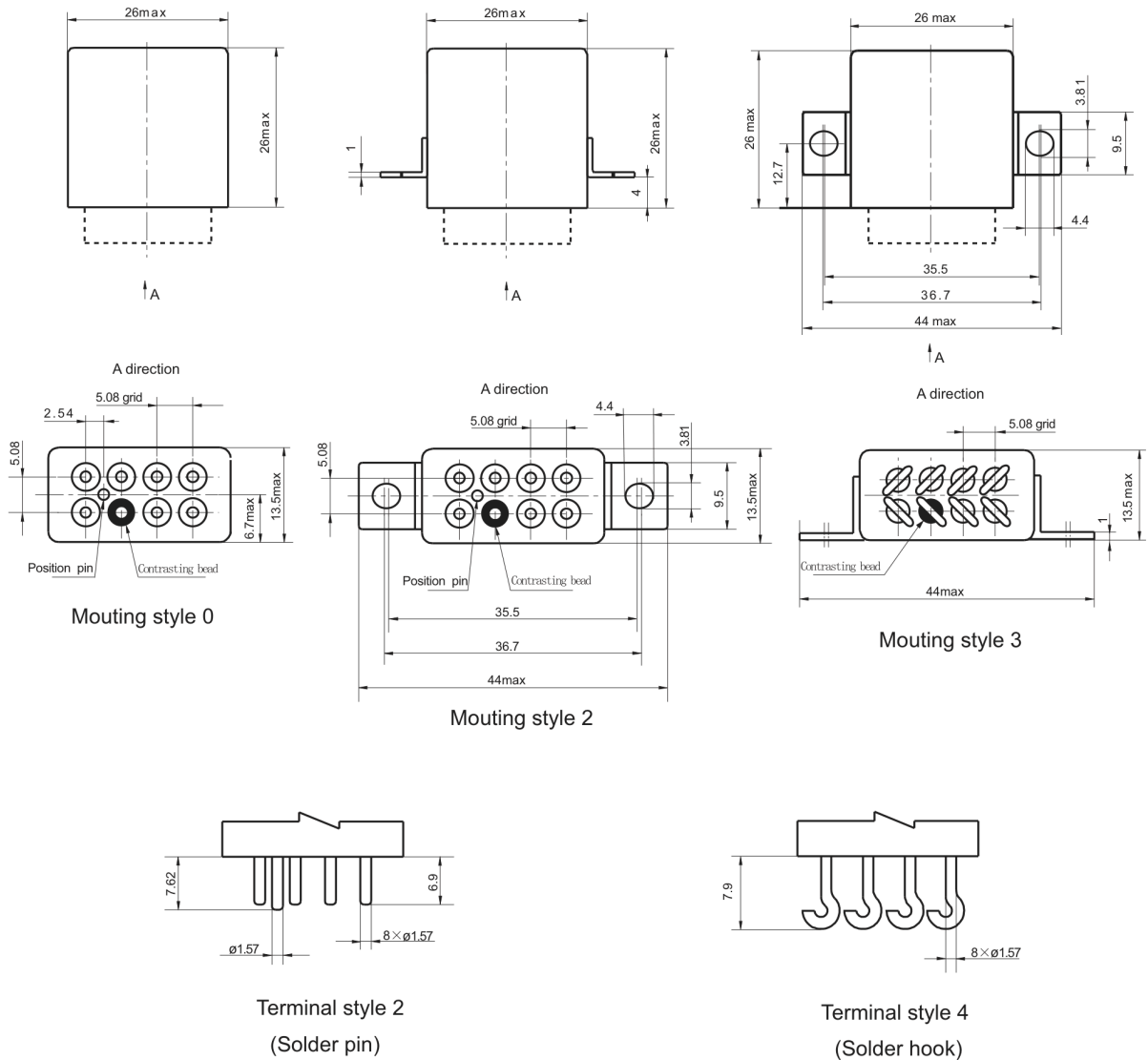


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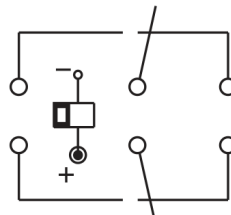
Mounting Styles and Terminal Dimensions

Dimensions in millimetres. Original source drawings are reproduced below. Mounting A / B / C corresponds to drawing styles 0 / 2 / 3. Dimensional interchangeability with MIL Figure 1 must be verified.



Wiring Diagram

Without internal coil suppression



Viewed from terminal side. Follow the shown coil polarity. Terminal pin length is 6.9 mm; solder-hook dimension is 7.9 mm. Request the maximum factory-available length for each geometry, for subsequent internal trimming; longer versions and their ordering codes require written confirmation.



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MIL Configuration Cross Reference 001 to 019

All 38 dash numbers in MIL-PRF-83536/9A Table III are represented. Each line explicitly lists L → A and M → B. HI-G codes for uncovered configurations are reserved; no availability or full equivalence is implied.

MIL reference	HI-G part number	V / Mount / Terminal
M83536/9-001L M83536/9-001M	2TM-7600-001A 2TM-7600-001B	6 / A / P
M83536/9-002L M83536/9-002M	2TM-7600-002A 2TM-7600-002B	6 / A / H
M83536/9-003L M83536/9-003M	2TM-7600-003A 2TM-7600-003B	6 / A / S
M83536/9-004L M83536/9-004M	2TM-7600-004A 2TM-7600-004B	6 / B / P
M83536/9-005L M83536/9-005M	2TM-7600-005A 2TM-7600-005B	6 / B / H
M83536/9-006L M83536/9-006M	2TM-7600-006A 2TM-7600-006B	6 / B / S
M83536/9-007L M83536/9-007M	2TM-7600-007A 2TM-7600-007B	6 / C / P
M83536/9-008L M83536/9-008M	2TM-7600-008A 2TM-7600-008B	6 / C / H
M83536/9-009L M83536/9-009M	2TM-7600-009A 2TM-7600-009B	6 / C / R
M83536/9-010L M83536/9-010M	2TM-7600-010A 2TM-7600-010B	12 / A / P
M83536/9-011L M83536/9-011M	2TM-7600-011A 2TM-7600-011B	12 / A / H
M83536/9-012L M83536/9-012M	2TM-7600-012A 2TM-7600-012B	12 / A / S
M83536/9-013L M83536/9-013M	2TM-7600-013A 2TM-7600-013B	12 / B / P
M83536/9-014L M83536/9-014M	2TM-7600-014A 2TM-7600-014B	12 / B / H
M83536/9-015L M83536/9-015M	2TM-7600-015A 2TM-7600-015B	12 / B / S
M83536/9-016L M83536/9-016M	2TM-7600-016A 2TM-7600-016B	12 / C / P
M83536/9-017L M83536/9-017M	2TM-7600-017A 2TM-7600-017B	12 / C / H
M83536/9-018L M83536/9-018M	2TM-7600-018A 2TM-7600-018B	12 / C / R
M83536/9-019L M83536/9-019M	2TM-7600-019A 2TM-7600-019B	28 / A / P

Mount: A = no mount; B = raised vertical flange (RVFM); C = horizontal flange (HFM). **Terminal:** P = solder pin; H = solder hook; S = socket pin; R = 90° solder pin.

The cross reference identifies candidate configurations and does not establish full MIL compliance or qualification. Level M performance requires separate supporting evidence.



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MIL Configuration Cross Reference 020 to 038

All 38 dash numbers in MIL-PRF-83536/9A Table III are represented. Each line explicitly lists L → A and M → B. HI-G codes for uncovered configurations are reserved; no availability or full equivalence is implied.

MIL reference	HI-G part number	V / Mount / Terminal
M83536/9-020L M83536/9-020M	2TM-7600-020A 2TM-7600-020B	28 / A / H
M83536/9-021L M83536/9-021M	2TM-7600-021A 2TM-7600-021B	28 / A / S
M83536/9-022L M83536/9-022M	2TM-7600-022A 2TM-7600-022B	28 / B / P
M83536/9-023L M83536/9-023M	2TM-7600-023A 2TM-7600-023B	28 / B / H
M83536/9-024L M83536/9-024M	2TM-7600-024A 2TM-7600-024B	28 / B / S
M83536/9-025L M83536/9-025M	2TM-7600-025A 2TM-7600-025B	28 / C / P
M83536/9-026L M83536/9-026M	2TM-7600-026A 2TM-7600-026B	28 / C / H
M83536/9-027L M83536/9-027M	2TM-7600-027A 2TM-7600-027B	28 / C / R
M83536/9-028L M83536/9-028M	2TM-7600-028A 2TM-7600-028B	28 / B / H
M83536/9-029L M83536/9-029M	2TM-7600-029A 2TM-7600-029B	28 / B / S
M83536/9-030L M83536/9-030M	2TM-7600-030A 2TM-7600-030B	48 / A / P
M83536/9-031L M83536/9-031M	2TM-7600-031A 2TM-7600-031B	48 / A / H
M83536/9-032L M83536/9-032M	2TM-7600-032A 2TM-7600-032B	48 / A / S
M83536/9-033L M83536/9-033M	2TM-7600-033A 2TM-7600-033B	48 / B / P
M83536/9-034L M83536/9-034M	2TM-7600-034A 2TM-7600-034B	48 / B / H
M83536/9-035L M83536/9-035M	2TM-7600-035A 2TM-7600-035B	48 / B / S
M83536/9-036L M83536/9-036M	2TM-7600-036A 2TM-7600-036B	48 / C / P
M83536/9-037L M83536/9-037M	2TM-7600-037A 2TM-7600-037B	48 / C / H
M83536/9-038L M83536/9-038M	2TM-7600-038A 2TM-7600-038B	48 / C / R

Mount: A = no mount; B = raised vertical flange (RVFM); C = horizontal flange (HFM). **Terminal:** P = solder pin; H = solder hook; S = socket pin; R = 90° solder pin.

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