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187-32T200=R3412

No Image Available

Not EU RoHS or ELV Compliant

18732T200

TE Internal Number: 8-1608065-4 Active

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Documentation & Additional Information Product Drawings: Related Products: • None Available Tooling Catalog Pages/Data Sheets: • 187 Series Power Relay Data Sheet (PDF, English) **Product Specifications:** None Available **Application Specifications:** None Available **Instruction Sheets:** • None Available CAD Files: • None Available

List all Documents

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Features

- AC coils 6-240VAC 50/60 Hz., DC 6-110VDC
- One or two pole models with single or double throw contacts.
- 187 relays with 2 form A or 2 form B contacts are rated 25 amps; 187 relays with other contact arrangements are rated 20 amps.
- .250" combination quick connect/solder terminals or PC terminals.
- Various mounting options include stud, core, bracket, flange, PC board.
- Open-style relay or with dust cover.

Contact Data @ 25°C

Arrangements: 1 Form X (SPST-NO-DM), 1 Form Y (SPST-NC-DB), 2 Form C (DPDT), 2 Form A (DPST-NO) and 2 Form B (DPST-NC).

Material: Silver-cadmium oxide, .25" (6.5mm) dia. or Fine silver, .187" (4.75mm) dia.

Expected Mechanical Life: 10 million operations. **Initial Contact Resistance:** 50 milliohms.

Contact Ratings

Contact Code & Description	UL Ratings	Expected Life		
-200 1/4" (6.25 mm) Dia. Silver Cadmium Oxide	20A @ 120/240VAC 10A @ 480/600VAC 3/4 HP @ 120VAC, 1 1/2 HP @ 240VAC 2 HP @ 208/277VAC* 17FLA, 65LRA @ 300VAC 20A @ 28VDC	100,000 ops.		
-500 3/16" (4.75 mm) Dia. Fine Silver	5A @ 120/240VAC 2A @ 480/600VAC 1/8 HP @ 120VAC, 1/4 HP @ 240VAC 2A (7.2A inrush) @ 24VAC 5A @ 28VDC	100,000 ops.		
-600 1/4" (6.25 mm) Dia. Silver Cadmium Oxide	25A @ 120/240VAC 10A @ 480/600VAC 3/4 HP @ 120VAC, 1 1/2 HP @ 240VAC 2 HP @ 208/277VAC* 17FLA, 65LRA @ 300VAC	100,000 ops.		

^{*2} HP rating at reduced electrical life, consult factory.

Initial Dielectric Strength

Between Open Contacts: >750V rms, 60 Hz.

Between All Other Mutually Isolated Elements: >2,500V rms, 60 Hz.

Coil Data @ 25°C

Voltage: 6-110VDC and 6-240VAC.

Nominal Power: DC Coils: 1.2 Watts. AC Coils: 3.0VA.

Duty Cycle: Continuous at up to 25% overvoltage.

Initial Insulation Resistance: 1,000 megohms, min. @ 500VDC

Insulation: Class B, 130°C.

187 series

20-25 Amp Power Relays

% File E38802

(§) File LR54109

Users should thoroughly review the technical data before selecting a product part number. It is recommended that users also seek out the pertinent approvals files of the agencies/laboratories and review them to confirm the product meets the requirements for a given application.

Coil Data @ 25°C (continued)

Temperature Rise:

AC Coils:

Nominal Voltage: 35°C for open models. 45°C for enclosed models.

25% Overvoltage: 55°C for open models. 65°C for enclosed models.

DC Coils: Nominal Voltage: 35°C for open models.

40°C for enclosed models. 25% Overvoltage: 50°C for open models. 55°C for enclosed models.

Coil Data

	Nominal Voltage	DC Resistance in Ohms ± 10%	Must Operate Voltage
DC Coils	6 12 24 48 110	32 120 470 1,800 11,000	4.5 9.0 18.0 36.0 82.5
AC Coils	6 12 24 120 208 240	4.2 18 72 1,700 5,400 7,200	5.1 10.2 20.4 102.0 176.8 204.0

Operate Data @ 25°C

Must Operate Voltage:

DC Coils: 75% of nominal.
AC Coils: 85% of nominal.

Operate Time (Excluding Bounce): 20 milliseconds, max, at nominal voltage, no coil suppression.

Release Time (Excluding Bounce): 10 milliseconds, max, at nominal voltage, no coil suppression.

Environmental Data

Temperature Range (50/60 Hz operation, based on 105°C limit):

Operating

AC Coils: -45°C to +60°C for open models. -45°C to +45°C for enclosed models. -45°C to +80°C for open models. -45°C to +70°C for enclosed models.

Storage All:

-65°C to +100°C.

Shock: 15g's, 11 ± 1 ms (non-operating, no mechanical damage). **Vibration:** .1* double amplitude or 10 g's, 10-55 Hz. (operating, no contact chatter).

Mechanical Data

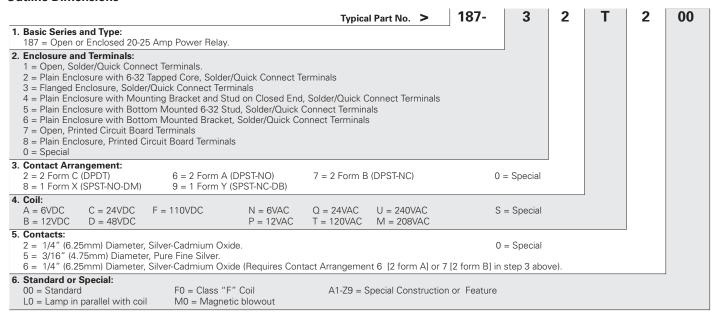
Termination: .250" quick connect/solder; and PC board.

Enclosure: Open or polycarbonate dust cover.

Weight: 3 oz. (86g) approximately.



Outline Dimensions



NOTE: No sockets are available for this relay.

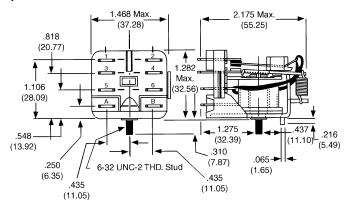
Our authorized distributors are more likely to maintain the following items in stock for immediate delivery.

187-32B200 187-32D200 187-32Q200 187-32U200

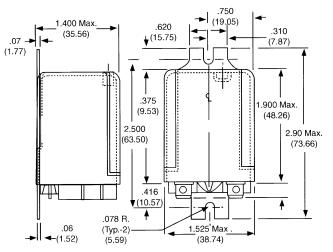
187-32C200 187-32F200 187-32T200

Outline Dimensions

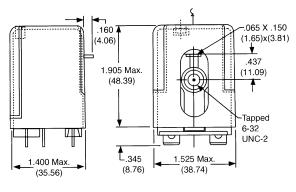
Open 187-1



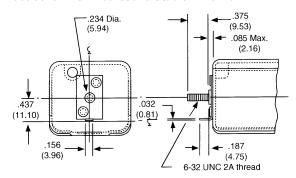
Dust Cover with Mounting Flange 187-3



Dust Cover 187-2



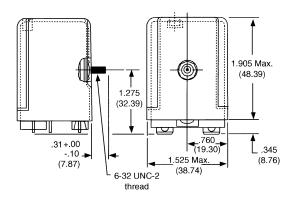
Dust Cover with Bracket and Stud on End 187-4



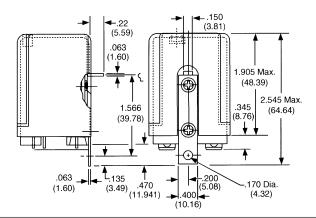


Outline Dimensions (Continued)

Bottom Stud 187-5

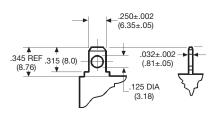


Bracket Mount 187-6

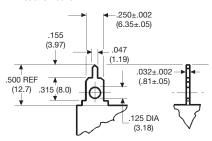


Terminal Dimensions

.250" (6.35mm) Quick Connect



Printed Circuit



Wiring Diagrams

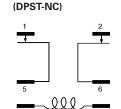
2 Form C

(DPDT)

1 1 1 3 3 5 000

2 Form A (DPST-NO)

5



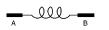
2 Form B

1 Form X (SPST-NO-DM) 1 Form Y (SPST-NC-DB)

QQQ



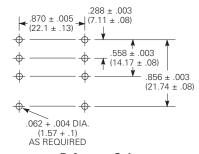






PC Board Layout (Bottom View)

Suggested PCB layout for 187 series relays with PCB terminals



Reference Only

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