

Q-50 Series Relay, Current Indicator, Rated up to 2 Amps, 28 Vdc

Product Facts

- SPST NC
- Environmentally sealed
- Meets many requirements of MIL-PRF-6106



Performance Data

Electrical Characteristics Contact Arrangement — SPST NC Contact Rating @ 120 Vdc — 0.1 Amp Rated Operating Voltage - 28 Vdc Sensing Current Rating — 2 Amps, continuous Pickup Max. — 1 Amp DC

Dropout Min. — 0.4 Amp Operating Voltage, Nom. — 28 Vdc

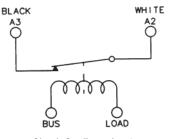
General Characteristics Temperature Range — -55°C to +71°C

Altitude, Max. - 50,000 ft Weight, Max. - 1.25 oz

166 DIA HOLE 2 MTG HOLES •9 BLACK MHITE A3 A2 4 5 LOAD BUS 1,500 1.87 6-32 UNC-2A 2 REQ'D. 20 .03 MAX MAX -PART NO Ň 76 OPERATE AMPS 59 SERIAL NO. ARTMAN ELEC. MFG.

Mounting Style A

Circuit Configurations (Consult factory for other available circuit configurations)



Circuit Configuration 1

For factory-direct application	HARTMAN	Construction	Mounting	Duty	Circuit	TE
	Part Number	Type	Style	Cycle	Config.	Part Number
assistance, phone 419-521-9500 or fax 419-526-2749.	Q-50Y	Environmentally Sealed	А	Continuous	1	1-1616131-2

assistar fax 419-

Catalog 5-1773450-5 Revised 3-13

www.te.com

Dimensions are shown for reference purposes only. Specifications subject to change.

Dimensions are in millimeters unless otherwise specified.

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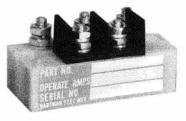
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Q-50 Series Relay, Current Indicator, Rated up to 3.5 Amps, 28 Vdc

Product Facts

- SPDT
- Environmentally sealed
- Meets many requirements of MIL-PRF-6106

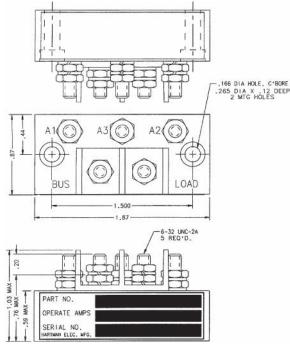


Performance Data

Electrical Characteristics Contact Arrangement — SPDT Contact Rating @ 28 Vdc — 0.25 Amp Lamp Load @ 28 Vdc — 0.080 Amp Rated Operating Voltage — 28 Vdc Sensing Current Rating — 3.5 Amps, continuous Pickup Max. — 2 Amp DC Dropout Min. — 0.8 Amp

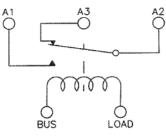
General Characteristics

Temperature Range — -55°C to +71°C Altitude, Max. — 50,000 ft Weight, Max. — 1.25 oz



Mounting Style A

Circuit Configurations (Consult factory for other available circuit configurations)



Circuit Configuration 1

For factory-direct application	HARTMAN	Construction	Mounting	Duty	Circuit	TE
	Part Number	Type	Style	Cycle	Config.	Part Number
assistance, phone 419-521-9500 or fax 419-526-2749.	Q-50F	Environmentally Sealed	А	Continuous	1	1616131-9

6-134

Catalog 5-1773450-5 Revised 3-13

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Dimensions are shown for reference purposes only. Specifications subject to change. Dimensions are in millimeters unless otherwise specified.

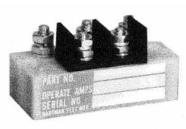
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Q-50 Series Relay, Current Indicator, Rated up to 6.25 Amps, 28 Vdc

Product Facts

- SPDT
- Environmentally sealed
- Meets many requirements of MIL-PRF-6106

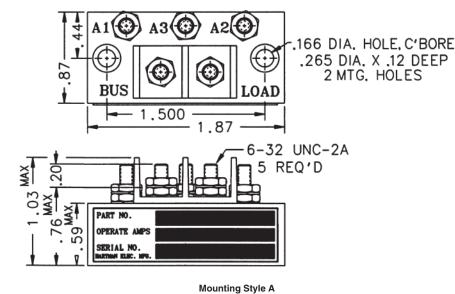


Performance Data

Electrical Characteristics Contact Arrangement — SPST NC Contact Rating @ 28 Vdc — 0.25 Amp Rated Operating Voltage — 28 Vdc Sensing Current Rating — 6.25 Amps, continuous Lamp Load — 0.080 Amp Pickup Max. — Q50BB – 2.5 Amps DC Q50BD – 2.0 Amps DC Q50E - 3.5 Amps DC Dropout Min. — Q50BD – 0.8 Amps DC Q50BB – 1.0 Amps DC

General Characteristics

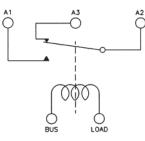
Temperature Range — -55°C to +71°C Altitude, Max. — 50,000 ft Weight, Max. — 1.25 oz



Q50E - 1.4 Amps DC

Circuit Configurations

(Consult factory for other available circuit configurations)



Circuit Configuration 1

Construction Type Mounting Style HARTMAN Part Number Coil Type Circuit Config. TE Part Number Environmentally Q-50BB 1616131-5 Continuous 1 А Sealed Environmentally Q-50E Continuous А 1 1616131-8 Sealed For factory-direct application assistance, phone 419-521-9500 or Environmentally Q-50BD А Continuous 1 1616131-6 Sealed fax 419-526-2749.

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Catalog 5-1773450-5	
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Revised 3-13

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Q-50 Series Relay, Current Indicator, Rated up to 10 Amps, 28 Vdc

Product Facts

- SPST NO
- Environmentally sealed
- Meets many requirements of MIL-PRF-6106



Performance Data

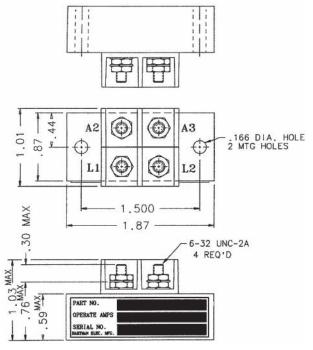
Electrical Characteristics Contact Arrangement — SPST NO Contact Rating @ 28 Vdc — 0.25 Amp Lamp Load @ 28 Vdc — 0.08 Amp

Rated Operating Voltage — 28 Vdc Sensing Current Rating — 20 Amps, continuous, max.

Pickup Max. — 3.5 Amps DC Dropout Min. — 0.5 Amp

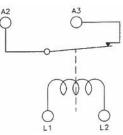
General Characteristics Temperature Range — -55°C to +71°C

Altitude, Max. — 50,000 ft **Weight, Max.** — 1.25 oz



Mounting Style A

Circuit Configurations (Consult factory for other available circuit configurations)



Circuit Configuration 1

	HARTMAN	Construction	Mounting	Duty	Circuit	TE
For factory-direct application	Part Number	Type	Style	Cycle	Config.	Part Number
assistance, phone 419-521-9500 or fax 419-526-2749.	Q-50A	Environmentally Sealed	A	Continuous	1	1616131-1

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Catalog 5-1773450-5 Revised 3-13

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Dimensions are shown for

Dimensions are in millimeters unless otherwise specified.

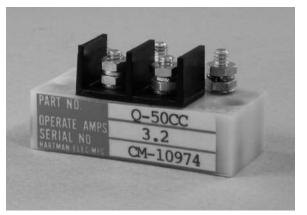
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Q-50 Series Relay, Current Indicator, Rated up to 15 Amps, 28 Vdc

Product Facts

- SPDT
- Environmentally sealed
- Meets many requirements of MIL-PRF-6106



Performance Data

Electrical Characteristics Contact Arrangement — SPDT Contact Rating @ 28 Vdc — 0.25 Amp Lamp Load @ 28 Vdc — 0.10 Amp Rated Operating Voltage - 28 Vdc Sensing Current Rating — 15 Amps DC, continuous, max. Pickup Max. -

3.2 Amps DC Dropout Min. — 1.2 Amps

General Characteristics

Temperature Range — -55°C to +85°C Altitude, Max. - 50,000 ft Weight, Max. - 1.25 oz

.265 DIA X .12 DEEP 2 MTG HOLES Ć Α3 A2(C \bigcirc C BUS LOAD 1.500 1,87 -32 UNC-2A REQ'D. 20 1.03 MAX-PART NO M .76 OPERATE AMPS 59 SERIAL NO, HARTMAN ELEC. MFG

Mounting Style A

configurations) A2 010

Circuit Configuration 1

LOAD

O BUS

-	HARTMAN	Construction	Mounting	Duty	Circuit	TE
pry-direct application	Part Number	Type	Style	Cycle	Config.	Part Number
ice, phone 419-521-9500 or 526-2749.	Q-50CC	Environmentally Sealed	А	Continuous	1	1616131-7

For facto assistanc fax 419-5

Catalog 5-1773450-5 Revised 3-13

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.166 DIA HOLE, C'BORE

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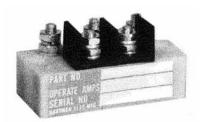


Q-50 Series Relay, Current Indicator, Rated up to 16 Amps, 28 Vdc

Product Facts

- SPST NC
- Environmentally sealed
- Meets many requirements of MIL-PRF-6106

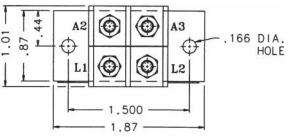


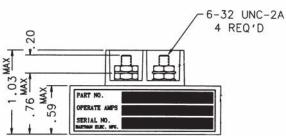


Performance Data

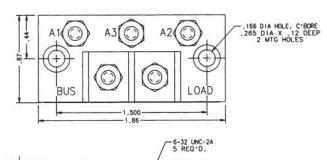
Electrical Characteristics Contact Arrangement – Q50S - SPST NC Q50Z - SPDT Contact Rating @ 28 Vdc — 0.25 Amp Lamp Load @ 28 Vdc — 0.10 Amp Rated Operating Voltage - 28 Vdc Sensing Current Rating — 16 Amps DC, continuous, max. Pickup Max. — 3 Amps DC Dropout Min. — 1.2 Amps **General Characteristics**

Temperature Range — -55°C to +71°C Altitude, Max. - 50,000 ft Weight, Max. - 1.25 oz





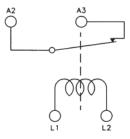
Mounting Style A



Circuit Configurations (Consult factory for other available circuit configurations)

Specifications subject

to change.



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Circuit Configuration 1

SERIAL NO. HARTMAN ELEC. MFG Mounting Style B

Circuit Configuration 1

	HARTMAN Part Number	Construction Type	Mounting Style	Duty Cycle	Circuit Config.	TE Part Number
For factory-direct application assistance, phone 419-521-9500 or fax 419-526-2749.	Q-50S	Environmentally Sealed	А	Continuous	1	1-1616131-1
	Q-50Z	Environmentally Sealed	А	Continuous	2	1-1616131-3

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PART NO.

OPERATE AMPS

MAX XVW .

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Catalog 5-1773450-5 Revised 3-13

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Dimensions are shown for Dimensions are in millimeters reference purposes only. unless otherwise specified.

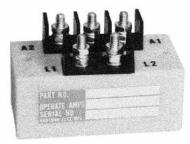
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Q-50 Series Relay, Current Indicator, Rated up to 20 Amps, 28 Vdc

Product Facts

- SPST NC or SPST NO
- Environmentally sealed
- Meets many requirements of MIL-PRF-6106



Performance Data

Electrical Characteristics Contact Arrangement —

SPST NC, SPST NO or SPDT **Contact Rating @ 28 Vdc** — Q-50AB-2 — 0.2 Amp Q-50J, — 0.25 Amp Q-50AG — 1.0 Amp Q-50AB-1 — 1 Amp switching, and 2 Amps carry Q50AC — 2 Amp

Lamp Load @ 28 Vdc — Q-50AC, Q-50AB-2 — 0.08 Amp Q-50J, Q-50AG — 0.20 Amp

Operating Voltage, Nom. — 28 Vdc Sensing Current Rating — 20 Amps continuous, max. except for Q-50AB-1 and Q-50AB-2 which are 10 Amps max. and 15 Amps max. for 3 sec. Q50AC 2 Amps continuous 10 Amps max. for 5 seconds

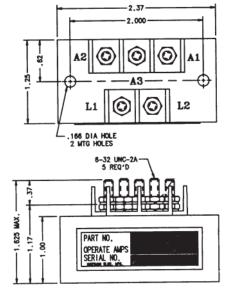
Pickup Max. — Q-50AC — 0.3 Amp Q-50AB-1, Q-50AB-2 — 1.5 Amp Q-50J — 3.5 Amps DC Q-50AG — 6 Amps DC ± 20%

Dropout Min. — Q-50AC — 0.1 Amp Q-50J — 0.5 Amp Q-50AB-1, Q-50AB-2 — less than 1 Amp Q-50AG — 2.4 Amp

General Characteristics

Temperature Range — -55°C to +71°C Altitude, Max. — Q-50J, Q-50AB-1 — 50,000 ft Q-50AC, Q-50AG, Q-50AB-2 — 60,000 ft Weight, Max. — 1.25 oz

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Mounting Style B

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Mounting Style A

Dimensions are shown for

For factory-direct application assistance, phone 419-521-9500 or fax 419-526-2749.

Catalog 5-1773450-5 Revised 3-13

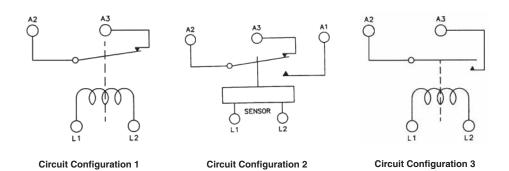
reference purposes only. Specifications subject to change. Dimensions are in millimeters unless otherwise specified.

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Q-50 Series Relay, Current Indicator, Rated up to 20 Amps, 28 Vdc (Continued)

Circuit Configurations (Consult factory for other available circuit configurations)



HARTMAN Part Number Construction Type Mounting Style Circuit Config. TE Part Number Duty Cycle Environmentally Q-50J Continuous 1-1616131-0 А 1 Sealed Environmentally Sealed Q-50AC В Continuous 2 1616131-4 Environmentally Q-50AG А Continuous 1 1616540-7 Sealed Environmentally Q-50AB-1 А Continuous 1 1616131-2 Sealed Environmentally Sealed Q-50AB-2 А Continuous 3 1616131-3

For factory-direct application assistance, phone 419-521-9500 or fax 419-526-2749.

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Catalog 5-1773450-5 Revised 3-13 Dimensions are shown for reference purposes only. Specifications subject to change. Dimensions are in millimeters unless otherwise specified.

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