

### RA-3100 Series Remote Power Controller, Rated up to 60 Amps, 115/208 VAC

**Product Facts** 

- 3PST NO
- Gasket sealed



**Performance Data Electrical Characteristics** 

Contact Arrangement — 3PST NO **Rated Operating Voltage -**115/208 VAC, 400-610 Hz, 3 phase Resistive Rating — 50 Amp Motor Rating — 30 Amp Rupture Rating — 1000 Amp

Closing Time, Max., Override at **28 Vdc** — 35 msec Opening Time, Max., Override at

28 Vdc — 25 msec

Contact Bounce, Max. — 3 msec

**Coil Characteristics** 

Duty Cycle — Continuous, economizing

Operating Voltage, Max. - 32 Vdc Operating Voltage @ 85°C, Min. — 18 Vdc

Trip Time @ 60 Amp Current +10% - 2.0 to 3.0 sec

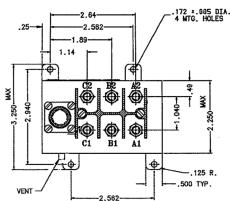
Trip Time @ 75 Amp Current +10% - 1.0 to 1.9 sec Trip Time @ 95 Amp Current +10%

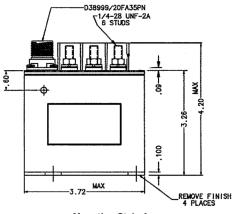
- .2 to .9 sec Trip Time @ 200+ Amp Current

+10% - 0.01 to 0.1 sec **General Characteristics** 

Temperature Range — -55°C to +85°C **Operating Cycles (Life)** 

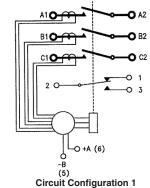
Mechanical, Min. — 100,000 cycles Altitude — 50,000 ft Weight, Max. - 1.55 lbs





Mounting Style A

Circuit Configurations (Consult factory for other available circuit configurations)



For factory-direct application	HARTMAN	Construction	Mounting	Coil	Circuit	TE
	Part Number	Type	Style	Type	Config.	Part Number
assistance, phone 419-521-9500 or fax 419-526-2749.	RA-3100H	Gasket/Vented	А	Continuous, Economizing	1	1616539-3

6-146

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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## RA-3100 Series Remote Power Controller, Rated up to 70 Amps, 115/208 VAC

**Product Facts** 

- 3PST NO
- Gasket sealed



**Performance Data Electrical Characteristics** Contact Arrangement — 3PST NO Rated Operating Voltage -115/208 VAC, 400-610 Hz, 3 phase Resistive Rating — 70 Amp Motor Rating — 70 Amp Rupture Rating — 1,000 Amp

# **Coil Characteristics**

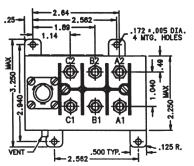
Duty Cycle — Continuous, economizing Operating Voltage, Max. - 32 Vdc Operating Voltage @ 85°C, Min. — 18 Vdc

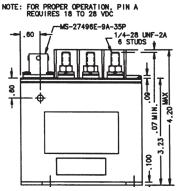
Trip Time @ 70 Amp Current +10% — 3.0 to 5.0 sec Trip Time @ 87 Amp Current +10% - 2.0 to 2.9sec

Trip Time @ 111 Amp Current +10% - 1.0 to 1.8 sec Trip Time @ 200 Amp Current +10% - 0.25 to 0.5 sec

#### **General Characteristics** Operating Temperature Range —

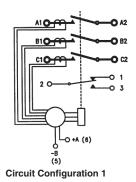
-55°C to +85°C Altitude — 50,000 ft max. Weight, Max. - 1.55 lb Sinusoidal Vibration -.038 DA from 10 to 50 Hz 10g from 55 to 2000 Hz Shock, Max. — 9 G max for 10-12 ms Load, Min. — 50,000 cycles **Operating Cycles (Life)** Mechanical, Min. — 100,000 cycles





Mounting Style A

Circuit Configurations (Consult factory for other available circuit configurations)



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For factory-direct application	HARTMAN	Construction	Mounting	Coil	Circuit	TE
	Part Number	Type	Style	Type	Config.	Part Number
assistance, phone 419-521-9500 or fax 419-526-2749.	RA-3100F	Gasket/Vented	А	Continuous, Economizing	1	1616133-2

assistance, phone 419-5 fax 419-526-2749.

Catalog 5-1773450-5 Revised 3-13

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### RA-3100 Series Remote Power Controller, Rated up to 100 Amps, 115/208 VAC

**Product Facts** 

- 3PST NO
- Gasket sealed
- Auxiliary contacts available
- Meets many requirements of MIL-PRF-6106



**Electrical Characteristics** Contact Arrangement — 3PST NO Rated Operating Voltage -115/208 VAC, 400-610 Hz, 3 phase Resistive Rating — 100 Amp Motor Rating — 100 Amp Rupture Rating — 1,000 Amp Closing Time, Max., at 28 Vdc — 35 msec Opening Time, Max., at 28 Vdc — 25 msec Contact Bounce, Max. - 3 msec **Coil Characteristics** Duty Cycle — Continuous, economizing Operating Voltage, Max. — 32 Vdc Operating Voltage @ 85°C, Min. — 18 Vdc Coil Current, Inrush Max.@ 25°C — 6.0 Amps Coil Current, Hold Max.@ 25°C — 0.5 Amps Trip Time @ 28 Amp Current +10% RA-3100M - 1.0 to 1.50 sec Trip Time @ 151 Amp Current +10% -RA-3100D - 3.0 to 5.0 Sec. Trip Time @ 185 Amp Current +10% -RA-3100D - 2 to 2.9 Sec. Trip Time @ 237 Amp Current +10% -RA-3100D - 1 to 2.5 Sec. **General Characteristics** Temperature Range --55°C to +85°C **Operating Cycles (Life) at Rated** Load, Min. - 50,000 cycles

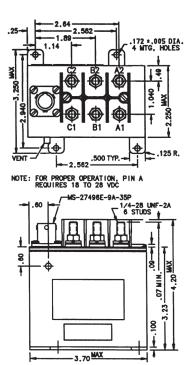
Derating Cycles (Life) Mechanical, Min. — 100,000 cycles Altitude — 50,000 ft Weight, Max. — 1.55 lbs

HARTMAN

Part Number

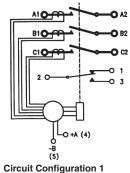
RA-3100D

RA-3100M



**Circuit Configurations** (Consult factory for other available circuit configurations)

Mounting Style A



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Construction Mounting Coil Circuit ΤE Part Number Config Туре Style Туре Continuous, Gasket/Vented A 1 1616133-1 Economizing

> Continuous, Economizing

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

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Gasket/Vented

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For additional support numbers please visit www.te.com

1616133-5



## RA-3100 Series Remote Power Controller, Rated up to 110 Amps, 115/208 VAC

**Product Facts** 

- 3PST NO
- Gasket sealed
- Auxiliary contacts available
- Meets many requirements of MIL-PRF-6106

#### **Performance Data**

Electrical Characteristics Contact Arrangement — 3PST NO Rated Operating Voltage — 115/208 VAC, 400-610 Hz, 3 phase

Resistive Rating –

RA-3100J-1 - 110 Amp RA-3100L - 50 Amp **Motor Rating** — RA-3100J01 - 110 Amp

RA-3100L - 50 Amp **Rupture Rating** — RA-3100J-1 - 1,100 Amp

RA-3100L 500 Amp Shock for 10-12 msec — 50 G

Closing Time, Max., Override at 28 Vdc — 35 msec

Opening Time, Max., Override at 28 Vdc — 25 msec

Contact Bounce, Max. — 3 msec

Coil Characteristics Duty Cycle — Continuous, economizing

Operating Voltage, Max. — 32 Vdc Operating Voltage @ 85°C, Min. — 18 Vdc Coil Current, Inrush Max.@ 25°C — 6.0 Amps

Coil Current, Hold Max.@ 25°C — 0.5 Amps

Trip Time @ 165 Amp Current +10% — 8.0 to 10.0 sec

**Trip Time @ 330 Amp Current** +10% — RA-3100J-1 - 1.2 to 2.0 sec

Trip Time @ 550 Amp Current +10% —

#### RA-3100J-1 -0.34 to 0.65 sec **Trip Time @ 1100 Amp Current** +10% —

RA-3100J-1 -0.07 to 0.20 sec

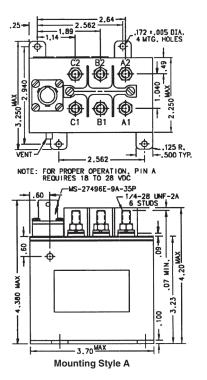
For factory-direct application assistance, phone 419-521-9500 or fax 419-526-2749.



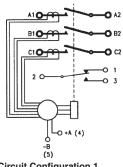
Trip Time @ 60 Amp Current +10% — RA-3100L - 8.0 to 10.0 sec Trip Time @ 150 Amp Current +10% — RA-3100L - 4.0 to 6.0 sec Trip Time @ 300 Amp Current +10% — RA-3100L - 2.0 to 3.0 sec Trip Time @ 500 Amp Current +10% — RA-3100L - 0.07 to 0.20 sec

#### **General Characteristics**

Temperature Range — -55°C to +85°C Operating Cycles (Life) at Rated Load, Min. — 50,000 cycles Operating Cycles (Life) Mechanical, Min. — 100,000 cycles Altitude — 60,000 ft Weight, Max. — 1.55 lbs



**Circuit Configurations** (Consult factory for other available circuit configurations)



Circuit Configuration 1

	HARTMAN Part Number	Construction Type	Mounting Style	Coil Type	Circuit Config.	TE Part Number
	RA-3100J-1	Gasket/Vented	А	Continuous, Economizing	1	1616133-3
or	RA-3100L	Gasket/Vented	A	Continuous, Economizing	1	1616133-4

Catalog 5-1773450-5 Revised 3-13

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