

KILOVAC MAP101 Series Contactor with 1 Form A (SPST-NO) Contacts Rated up to 100 Amps, 12-900 Vdc Dual Contact Material (Cu/Mo)

Product Facts

- Dual contact material (copper/moly) designed for high current make and interrupt military aerospace, ground vehicle and naval applications
- Hermetically sealed. intrinsically safe, operates in explosive/harsh environments with no oxidation or contamination of coils or contacts, during long periods of nonoperation
- Comes standard with 1 SPST-NO Aux. contact
- Not position sensitive, can be mounted in any orientation
- RoHS versions available



Physical Data

Contact Arrangement —

Main Contacts SPST-Latching (form X) 1X Auxiliary Contact -SPST-NO (form A)

Dimensions — See drawing

Weight, Nominal -0.35 Kg (12.35 oz)

Environmental Data

Shock, 11ms 1/2 Sine (Operating) — 20 G_{peak}

Sine Vibration, 20 G_{peak} — 55-2000 Hz

Random Vibration, 14.06 Grms — 15 Hz (.002 G²/Hz), 100 Hz (.002 G²/Hz), 450 Hz (.12 G²/Hz), 900 Hz (.12 G²/Hz), 2000 Hz (.083 G2/Hz)

Operating Temperature Range — -55°C to +85°C

Electrical Data

Voltage Rating -

Main Contacts (max) — 400 Vdc Auxiliary Contacts — 30 Vdc

Current Rating, Continuous —

Main Contacts 1 — 100 A Auxiliary Contacts - 3 A

Contact Resistance —

Main Contacts - $100 \text{ m}\Omega \text{ max} @ 1 \text{ amp}$ $0.75 \text{ m}\Omega$ max @ rated current Auxiliary Contacts — $200 \text{ m}\Omega \text{ max}$

Electric Life at Rated Current 270 Vdc, Resistive Load —

25,000 cycles

Mechanical Life — 1 million cycles

Dielectric Withstand Voltage -

Terminal to Terminal/ Terminals to Coil — 1mA max @ 1,300Vrms

Insulation Resistance —

Terminal to Terminal/ Terminals to Coil — $100M\Omega$ min @ 500Vdc new $50M\Omega$ min @ 500Vdc end of life

Note:

¹ Continuous current rating is affected by conductors attached. Keep terminals below 150°C max continuous.

Coil Data

Coil Voltage, Nominal/Max — 28/32 Vdc

Coil Resistance @ 25°C —

Contacts Close Coil — 18 Ω Contacts Open Coil — 13 Ω

Pick Up/ Drop Out (Max) -16 Vdc (-55°C to +25°C) 18 Vdc (+25°C to +85°C)

Coil Current (Max) @ 32Vdc/ -40°C — 4.0 À

Coil Current On Time (Minimum Required to Latch) — 40 ms

Main Contacts

Operate Time (Max) — 40 ms Operate Bounce (Max) — 5 ms Release Time — 25 ms

Auxiliary Contacts Operate/ Release — Within ± 5 ms of main

Ordering Information

Typical Part Number	WAPIUI R B A F
Series: MAP101 = 100 Amp, 12-900VDC	Contactor
Dual Contact Material	Contactor
Contact Form:R - Latch with 1 SPST NO Aux.	
Coil Voltage: B = 28 Vdc Coil	
Lead Length: A = 15.3 in. (300 mm)	
Coil Terminal Connector: N = None F = Plug on Flying Lead, 9 Pin Min	cro-D
Mounting & Power Terminals —	

For factory-direct application assistance. dial 800-253-4560, ext. 2055, or 805-220-2055.

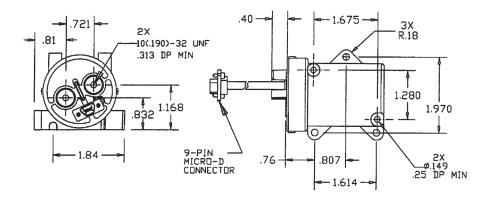
E = side mount with 2x#8

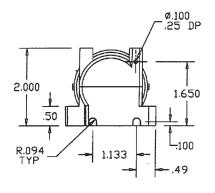
10-32 Female Power Terminals

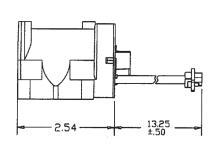


KILOVAC MAP101 Series Contactor (Continued)

Outline Dimensions

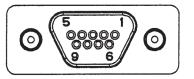






Connector Pin-Out

1	Not Connected
2	Aux. NO
3	Close Return
4	Close Return
5	+28Vdc
6	Aux. Com.
7	Open Return
8	Open Return
9	+28V
	1201



For additional support numbers

please visit www.te.com