

KILOVAC CAP202 Series Aerospace Commercial Contactor with 2 Form X (DPST-NO), Contacts Rated up to 300 Amps, 12-600 Vdc

Product Facts

- Hermetically sealed
- Up to 4X SPDT auxiliary switch outputs: 30 Vdc/2A max switching or 6V/5mA min. signal
- Integrated coil economizer with coil suppression
- EMC compliant no radiated coil emission
- Bidirectional switching main contacts not polarity sensitive
- Mount in any orientation not position sensitive



Weight: 0.79 Kg

environments

Hermetically sealed

periods on non-use

CAP202AS — None

CAP202MS — Two

CAP202FS — Four

Contact Arrangement —

Weight — 0.79 Kg (1.74 lb.)

Main Contacts — 12-900Vdc Auxiliary Catacts — 30VdC

Performance Data

Physical Data

Electrical Data Voltage Rating -

Current Rating -Main Contacts¹ — 350A/pole

Auxiliary Catacts - 3A

Contact Resistance -

Main Contacts — (2)

 $100 \text{ m}\Omega$ max @ 1 amp

 $0.3 \text{ m}\Omega$ max. @ 200A after 3 mins. Auxiliary Catacts — 200 m Ω max

Safe for harsh/corrosive

No contacts oxidation over

Number of SPDT Auxiliary

Contacts per Contactor Type:

Power Contacts — DPST-NO (2 Form X)

Auxiliary Switches — SPDT (form C)

Dimensions — See drawings on next

Description

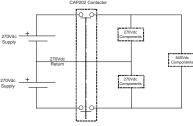
2-pole single throw hermetically sealed DC contactor; 12-900 Vdc/350A per pole

Bi-directional switching

Systems (ref schematic below)

Test Equipment

Power Motion Control



Electrical

Compact epoxy-sealed only about 4 in³ (65.5 cm³)

DPST-No (2 form X)

(auxiliary)

cycles

100A make/break — 10,000 cycles 250A make/break — 2,500 cycles 700A break only — 10 cycles

Hot Switching Performance @

± 400 Vdc (3)

Hot Switching Performance @ ± 270 Vdc (4)

100A make/break — 40,000 cycles 250A make/break — 7,500 cycles 2000A break only @ ±370Vdc (5) —

Maximum Make Current — 700A Dielectric Withstand Voltage over

Life — Terminal to Terminal/Terminals to Coil - 1mA max @ 2,200Vrms

Insulation Resistance over Life - Terminal to Terminal/Terminals to

Coil — $50m\Omega$ min @ 500VdcMechanical Life — 100,000 cycles

Environmental Data Shock, 11ms 1/2 sine (operating)

- 20G peak

Sine Vibration, 10G peak — 55-2,000 Hz.

Random Vibration, 14 Grms —

15	100	300	900	2000 Hz
.01	.01	.2	.2	.01 G2/Hz

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

Notes:

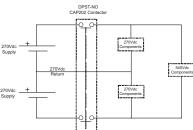
- Using 4/0 conductor. Current rating is affected by attached conductor size and design. Keep terminals below 150°C max. continuous, 175°C for 2 hours max. and 200°C for 1 minute max. For mounting large conductors, request terminal adapter PN 3-1618396-7.
- ² Operational contact resistance is measured by millivolt drop across contacts a > 100A current. Initial contact resistance may be higher than $0.3m\Omega$, but will drop below within 30 mins. max.
- ³ Voltage applied to each contact set separately.
- 4 Voltage applied across both contact sets in series.
- ⁵ May not pass 2,200 Vrms dielectric testing after second interrupt cycle.

Not position sensitive

Applications

High Voltage DC Converter

Power Distribution



resin enclosure occupies

Contact arrangement:

Voltage rating: 12-900 Vdc (main contacts); 30 Vdc

Mechanical life: 100,000

For factory-direct application assistance.

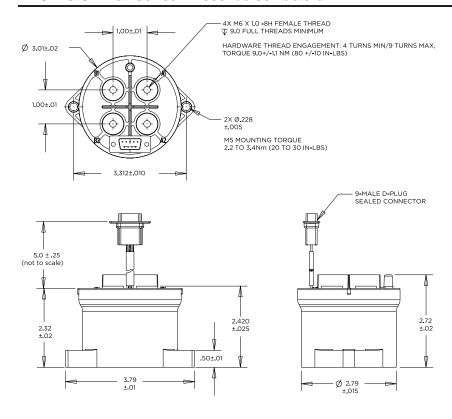
dial 800-253-4560, ext. 2055, or

to change.

805-220-2055.

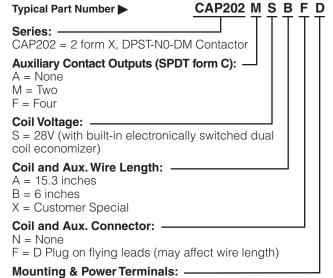
KILOVAC CAP202 Series 12-900Vdc Contactors

Outline Dimensions*



Coil Data (-40 to +85°C temp range unless otherwise noted)			
Voltage/Nominal Max.	28-32VDC		
Pickup Voltage Max.	16VDC		
Inrush Current @ 28 Vdc nominal/@32V maximum	3.4/6.0A		
Inrush Time (nominal/maximum)	75/150mS		
Hold Current @28V nominal / @32V maximum	0.27/0.48A		
Drop Out Voltage	3 to 8Vdc		
Internal Coil Suppression (max.)	60Vdc		
Main Contacts: Operate Time, nominal/maximum	13/20mS		
Main Contacts: Operate Bounce, nominal/maximum	3/10mS		
Main Contacts: Release Time, nominal/maximum	25mS		
Main Contacts: Release Time, maximum including Maximum arc time	7/12mS		

Ordering Information



terminals

D = 2X M5 Bottom Mount with 4X, M6 x 1 Female thread

Specifications are subject to change without notice.

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

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