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D

В

Ordering Information

CAP202 M S B F D Typical Part Number Series: -CAP202 = 2 form X. DPST-N0-DM Contactor Auxiliary Contact Outputs (SPDT form C): A = None

M = TwoF = Four Coil Voltage:

(C)

D

C

R

S = 28V (with built-in electronically switched dual coil economizer)

Coil and Aux. Wire Length: -

A = 15.3 inches

B = 6 inches X = Customer Special

Coil and Aux. Connector:

N = None

F = D Plug on flying leads (may affect wire length)

Mounting & Power Terminals:

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

Specifications are subject to change without notice.

Performance Data

Physical Data

Contact Arrangement —

Dimensions — See drawings on next Hot Switching Performance @

Weight - 0.79 Kg (1.74 lb.)

Electrical Data

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

Current Rating -

Main Contacts1 - 350A/pole Auxiliary Catacts - 3A

Contact Resistance —

Main Contacts — (2) 100 mΩ max @ 1 amp $0.3 \text{ m}\Omega$ max. @ 200A after 3 mins. Auxiliary Catacts — 200 m Ω max

Random Vibration, 14 Grms -15 100 300 900 2000 Hz

.2 .01 G2/Hz

Operating Temperature Range —

-55°C to +85°C

Hot Switching Performance @ ± 400 Vdc (3) -

100A make/break — 10.000 cycles Power Contacts — DPST-NO (2 Form X) 250A make/break — 2,500 cycles Auxiliary Switches — SPDT (form C) 700A break only — 10 cycles

± 270 Vdc (4) -

100A make/break — 40,000 cycles 250A make/break — 7.500 cycles 2000A break only @ ±370Vdc (5) -2 cycles

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 — 50mΩ min @ 500Vdc

Mechanical Life — 100,000 cycles **Environmental Data**

Shock, 11ms 1/2 sine (operating) - 20G peak

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

Physical or Other Properties

Weight: 0.79 Kg

Hermetically sealed

Safe for harsh/corrosive environments

No contacts oxidation over periods on non-use

Number of SPDT Auxiliary Contacts per Contactor Type: CAP202AS - None CAP202MS — Two

Description

CAP202FS - Four

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

Not position sensitive

Bi-directional switching

Applications

High Voltage DC Converter Systems (ref schematic below)

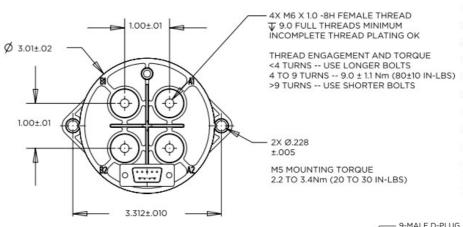
Test Equipment

Power Distribution

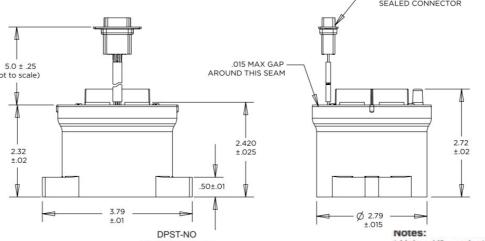
Power Motion Control

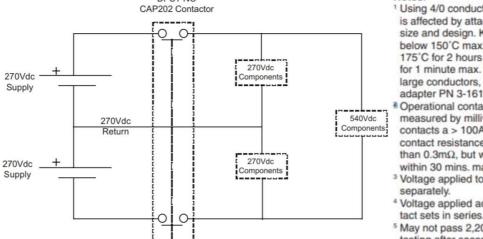
Product Facts

- 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



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 7/12mS Maximum arc time





1 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.

Operational contact resistance is measured by millivolt drop across contacts a > 100A current. Initial contact resistance may be higher than 0.3mΩ, but will drop below within 30 mins. max.

3 Voltage applied to each contact set separately. Voltage applied across both con-

5 May not pass 2,200 Vrms dielectric testing after second interrupt cycle.



ALL DIMENSIONS ARE IN INCHES(MM)

THIS DRAWING IS A CO	DWN VM	26AUG2019			? TE	TE C	annaat	::.::+			
	CHK RV	26AUG2019	TE Connectivity								
DIMENSIONS: INCHES	OTHERWISE SPECIFIED:		APVD MP	26AUG2019	NAME	NAME CAP202 SERIES					
	0 PLC	± - ± -	PRODUCT SPEC				CF	4FZUZ 3E _	NIES		
\oplus	1 PLC 2 PLC 3 PLC	± - ± -	APPLICATION SPEC		_						
+	4 PLC ANGLES	± - ± - ± -		-0	SIZE		DRAWING NO				RESTRICTED TO
MATERIAL	FINISH		WEIGHT	0	A3	00779	C-CAI	P202-S	ERIES		_
_		_	CUSTOMER	DRAWING				SCALE NTS	SHEET	1 OF	1 REV B

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