

P	LTR	DESCRIPTION	DATE	DWN	APVD
	B	ECO-20-007395	02JUN2020	SR	PM

## Ordering Information

## Typical Part Number ►

CAP202 M S B F D

## Series:

CAP202 = 2 form X, DPST-NO-DM Contactor

## Auxiliary Contact Outputs (SPDT form C):

A = None

M = Two

F = Four

## Coil Voltage:

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 &amp; 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 —

Power Contacts — DPST-NO (2 Form X)

Auxiliary Switches — SPDT (form C)

Dimensions — See drawings on next page

Weight — 0.79 Kg (1.74 lb.)

## Electrical Data

## Voltage Rating —

Main Contacts — 12-900Vdc

Auxiliary Catacts — 30Vdc

## Current Rating —

Main Contacts<sup>1</sup> — 350A/pole

Auxiliary Catacts — 3A

## Contact Resistance —

Main Contacts — (2)

100 mΩ max @ 1 amp

0.3 mΩ max. @ 200A after 3 mins.

Auxiliary Catacts — 200 mΩ max

## 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

## Hot Switching Performance @ ± 400 Vdc (3) —

100A make/break — 10,000 cycles

250A make/break — 2,500 cycles

700A break only — 10 cycles

## Hot Switching Performance @ ± 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

CAP202FS — Four

## Description

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

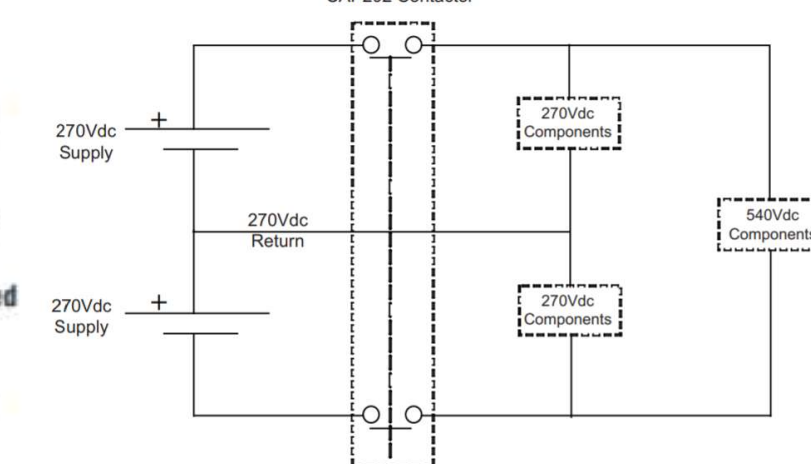
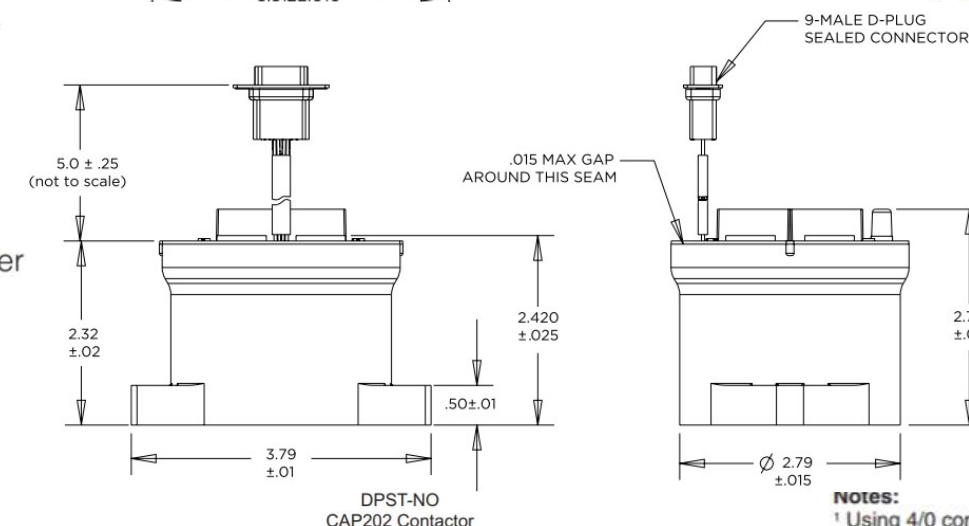
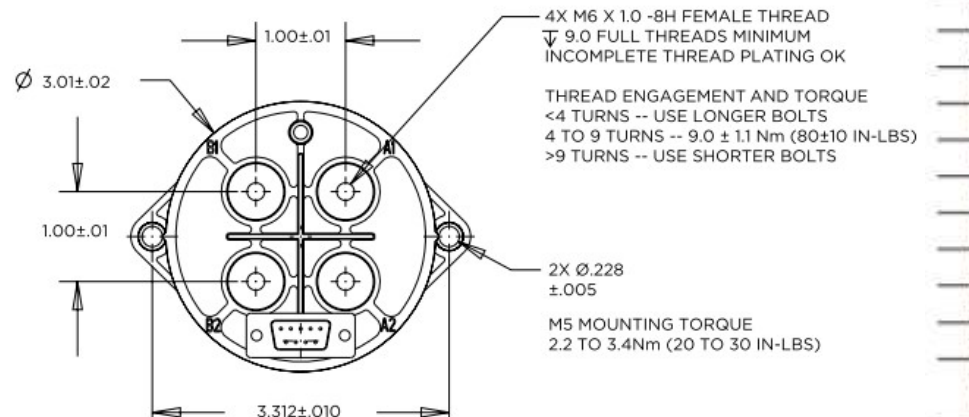
## ■ Up to 4X SPDT auxiliary switch outputs: 30 Vdc/2A max switching or 6V/5mA min. signal

## ■ 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



## NOTES:

<sup>1</sup> 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.

<sup>2</sup> Operational contact resistance is measured by millivolt drop across contacts at a > 100A current. Initial contact resistance may be higher than 0.3mΩ, but will drop below within 30 mins. max.

<sup>3</sup> Voltage applied to each contact set separately.

<sup>4</sup> Voltage applied across both contact sets in series.

<sup>5</sup> May not pass 2,200 Vrms dielectric testing after second interrupt cycle.



ALL DIMENSIONS ARE IN INCHES(MM)

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN	VM	26AUG2019	TE Connectivity			
		CHK	RV	26AUG2019				
		APVD	MP	26AUG2019	NAME			
		PRODUCT SPEC			CAP202 SERIES			
		APPLICATION SPEC			—			
		—			—			
		WEIGHT			SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
		0			A3	00779	©=CAP202-SERIES	—
		CUSTOMER DRAWING			SCALE	NTS	SHEET 1 of 1	REV B

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