

EV202 SERIES

DPST-NO CONTACTOR (2 form X)

With option of 2 SPDT (form C)
Auxiliary Switch Outputs.

- **2 Pole Single-Throw Contactor – 400Vdc/ 350A per Pole**
- **12 or 24 VDC Coil**
- **Optional 2-SPDT auxiliary switch outputs:**
 - 30Vdc/ 2A max switching, or
 - 6V/ 5mA min signal
- **Hermetically Sealed**
- **Integrated Coil Economizer with Coil Suppression**
- **EMC Compliant – No radiated coil emission**
- **-55C to + 85C Operating Range**
- **Bidirectional Switching – Main contacts not polarity sensitive**
- **Mount in any orientation – not position sensitive**
- **RoHS Compliant**

**EV202MSAND Shown (2 Aux Switches)**

550 Linden Ave.
Carpinteria, CA US 93013
Internet: www.te.com

TITLE

EV202 CONTACTOR SERIES**SD-****EV202****CD****CUSTOMER DRAWING**CAGE CODE
18741SCALE
NONESHEET
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General Specifications**Physical Data****Units**

Contact Arrangement: Power Contacts	-	DPST-NO (2 form X)
Auxiliary Switches		SPDT (form C)
Number of Switches per Contactor Type: EV202AS EV202MS		None Two
Dimensions	-	See drawing
Weight, Nominal (not including hardware)	Kg	0.77

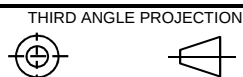
Environmental Data

Shock, 11ms ½ sine (operating)	G _{peak}	20
Sine Vibration, 10 G _{peak}	Hz	10-2000
Random Vibration, 14 Grms	Hz	15 100 300 900 2000
	G ² /Hz	.01 .01 .2 .2 .01
Operating Temperature Range	°C	-55 to +85

Electrical Data

Voltage Rating: Main Contacts (max)	Vdc	600
Auxiliary contacts	Vdc	30
Current Rating: Continuous: Main Contacts (1)	A/Pole	350
Auxiliary contacts	A	3
Contact Resistance: Main Contacts (2)	mΩ	100 max @ 1 amp 0.3 max @ 200A after 3 minutes
Auxiliary Contacts	mΩ	200 max
Hot Switching performance @ ± 400Vdc (3) 100A make/ break 250A make/ break 700A break only	cycles	10,000 2,500 10
Hot Switching performance @ ± 270Vdc (4) 100A make/ break 250A make/ break 2000A break only @ ± 370Vdc (5)	cycles	40,000 7,500 2
Maximum Closing Into (Make) Current	A	700
Mechanical Life	cycles	100,000
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

- (1) Using 4/0 conductor. Current rating is affected by attached conductor size and design. Keep terminals below 150C max continuous, 175C for 2 hours max, and 200C 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 0.3mΩ, but will drop below within 30 minutes maximum.
- (3) Voltage applied to each contact set separately.
- (4) Voltage applied across both contact sets in series
- (5) Dielectric Withstand Voltage may be degraded following 2000A interrupts at 370Vdc.

**CUSTOMER DRAWING****SD-****EV202**

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Coil Data (over -40 to +85C temperature range
unless otherwise specified)

Coil Voltage, nominal/ maximum	Vdc	12/16	24/32
Pick Up, maximum (applied as step voltage only)	Vdc	8	16
Drop Out	Vdc	2.5 - 4	3 - 8
Inrush Current @ V-nominal, max	A	5	4.5
Inrush Time, nominal/ maximum	mS	75/ 150	75/ 150
Hold Current @V-nominal, max.	A	0.6	0.2
Internal Coil Suppression (max)	Vdc	40	60
Main Contacts:			
Operate Time, nominal/ maximum	mS	13/ 20	13/ 20
Operate Bounce, nominal/ maximum	mS	3/ 10	3/ 10
Release Time, nominal/ maximum	mS	7/ 12	7/ 12
Release time, maximum including maximum arc time	mS	25	25

Wire Color Code

Function	Color
Coil +	Red
Coil Return	Black
Aux A1 COM	Brown
NO	Yellow
NC	Purple
Aux B1 COM	Orange
NO	Green
NC	White

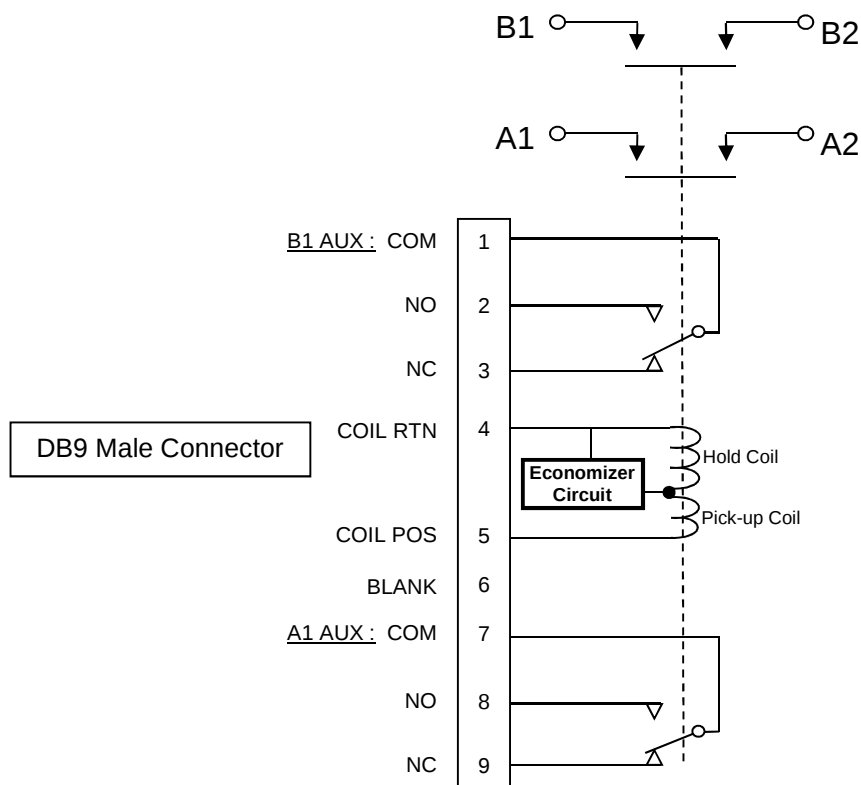
Note: EV202ASxxx type has 2 coil wires, with no auxiliary switches
EV202MSxxx type has 8 wires, with 2 auxiliary switches: A1 and B1

		CUSTOMER DRAWING		
		SD-	EV202	
 THIRD ANGLE PROJECTION	THIS DRAWING PREPARED IN ACCORDANCE WITH ANSI/ASME Y14.5M-1982	CAGE CODE 18741	SCALE NONE	SHEET 3 of 6

Schematic

EV202MSBFD shown for example.

Other versions may have different connectors and/ or different numbers of auxiliary switches



Part Numbering Reference

TYPICAL PART NUMBER EV202 M S B F D

Series:

EV202 = 2 form X, DPST-NO-DM Contactor

Auxiliary Contact Outputs (SPDT form C):

A = None, M = Two

Coil Voltage:

S = 24V; V = 12V (with built in electronically switched dual coil economizer)

Coil and Aux Wire Length (inches):

A = 15.3, B = 6, X = Customer specified configuration

Coil and Aux Connector:

N = none, F = "D" Plug on flying leads (may affect wire length)

Mounting and Power Terminals

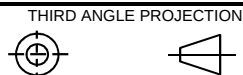
D = 2X M5 Bottom Mount with 4X, M6 X 1 Female thread terminals



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EV202



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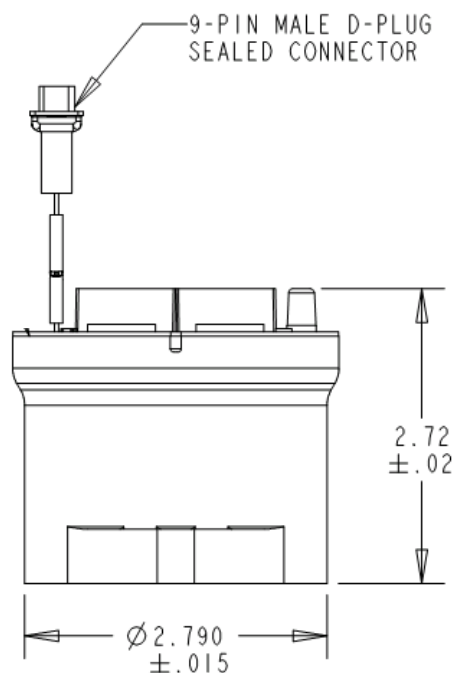
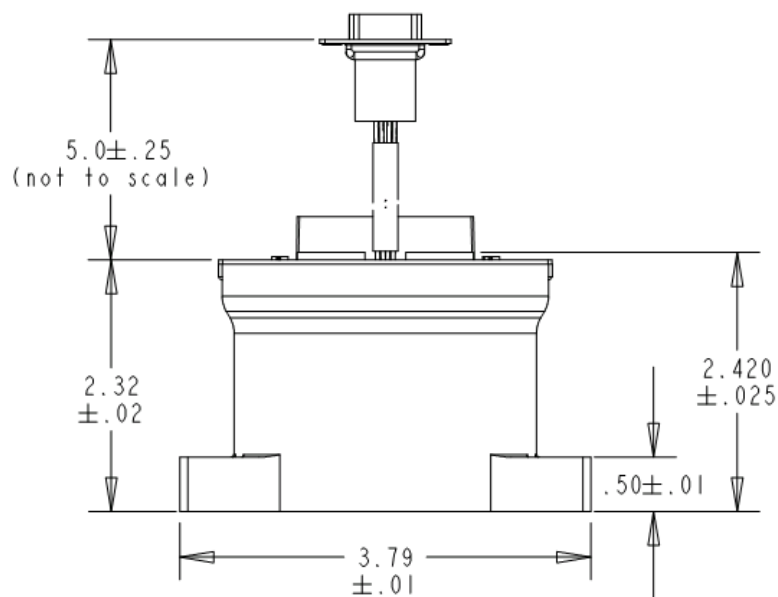
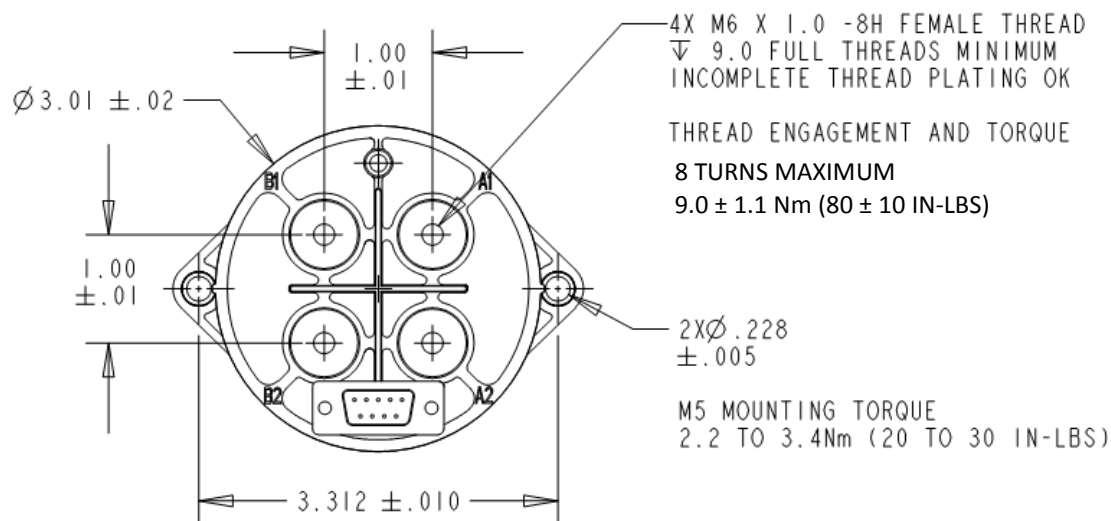
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Part Drawing

EV202MSBFD shown for example.
Other versions may have different connectors or flying leads.

**Dimensions in Inches**

Tolerances (except as noted)

.xx = $\pm .03$.xxx = $\pm .010$ $\angle X^\circ = \pm 5^\circ$ **CUSTOMER DRAWING****SD-****EV202**

THIRD ANGLE PROJECTION



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Rev.
B

Revisions

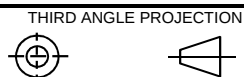
REV.	DESCRIPTION	DCO#	DATE	APP.
1	Preliminary Release	16255	01/05/15	D. Lewis
A	Release to Production	16334	11/12/15	D. Lewis
B	Add RoHS compliance, edit note 5.	16370	9/12/16	J.Reyes



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<http://moschip.ru/get-element>

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