# 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 sig
  - 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)

		TITLE EV202 CONTACTOR SERIES			
	550 Linden Ave. Carpinteria, CA US 93013 Internet: <u>www.te.com</u>	SD-	SD- EV202		
CD	CUSTOMER DRAWING	CAGE CODE 18741		SCALE NONE	SHEET 1 of 6
Rev. 331	10		Form 13.10		

Rev.

## **General Specifications**

Physical Data	Units					
Contact Arrangement: Power Contacts	-		DPS	ST-NO	(2 form	ו X)
Auxiliary Switches			0	SPDT (1	form C	)
Number of Switches per Contactor Type: EV202AS				No	ne	
EV202MS				Tv		
Dimensions	-			See dr	awing	
Weight, Nominal (not including hardware)	Kg			0.7	77	
Environmental Data						
Shock, 11ms 1/2 sine (operating)	Gpeak			2	0	
Sine Vibration, 10 Gpeak	Hz			10-2	000	
Random Vibration, 14 Grms	Hz	15	100	300	900	2000
	<b>C</b> <sup>2</sup> /LI=	.01	.01	.2	.2	.01
Operating Temperature Range	G²/Hz °C			-55 to		
				-55 10	7-05	
Electrical Data						
Voltage Rating: Main Contacts (max)	Vdc	600 30 350 3				
Auxiliary contacts	Vdc					
Current Rating: Continuous: Main Contacts (1) Auxiliary contacts	A/Pole					
Contact Resistance: Main Contacts (2)	A Ω	100 max @ 1 amp				
Contact Resistance. Main Contacts (2)	11122	03				3 minutes
Auxiliary Contacts	mΩ	0.0	max (	200		5 111110103
Hot Switching performance @ ± 400Vdc (3)	cycles					
100A make/ break	.,			10,0	000	
250A make/ break 2,500						
700A break only				1	0	
Hot Switching performance @ $\pm 270$ Vdc (4)	cycles			10		
100A make/ break     40,000       250A make/ break     7,500						
$2000A \text{ break only } @ \pm 370 \text{ Vdc } (5) $						
Maximum Closing Into (Make) Current	A			70	-	
Mechanical Life	cycles			100,		
Dielectric Withstand Voltage over life:	.,			,		
Terminal to Terminal/ Terminals to Coil		+	1mA	max @	2,200	Vrms
Insulation Resistance over life:					2,200	
Terminal to Terminal/ Terminals to Coil			50M	lΩ min	@ 500	Vdc
ng 4/0 conductor. Current rating is affected by attached of continuous, 175C for 2 hours max, and 200C for 1 minu pter PN 3-1618396-7.	te max. For	mounting	esign. g large	Keep condu	termina Ictors,	als below request t
erational contact resistance is measured by millivolt drop sistance may be higher than $0.3m\Omega$ , but will drop below w tage applied to each contact set separately.					Initial	contact
tage applied across both contact sets in series						
ומעה מהאוובת מרוחסס אחווו רחוונמרו סבוס ווו סבוובס						

(4) Voltage applied across both contact sets in series

(5) Dielectric Withstand Voltage may be degraded following 2000A interrupts at 370Vdc.

SD- EV202   THIRD ANGLE PROJECTION THIS DRAWING PREPARED IN CAGE CODE SCALE SHEET		lovac	CUSTOMER DRAWING				
PREPARED IN CAGE CODE SCALE SHEET	connectivity	SD-		EV202			
ACCORDANCE WITH 18741 NONE 2 of 6	THIRD ANGLE PROJECTION	PREPARED IN ACCORDANCE WITH	CAGE CODE 18741		SCALE NONE	SHEET 2 of 6	

Rev. B

### 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 16 8 Vdc 2.5 - 4 3 - 8 Drop Out Inrush Current @ V-nominal, max А 5 4.5 Inrush Time, nominal/ maximum mS 75/150 75/ 150 Hold Current @V-nominal, max. А 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

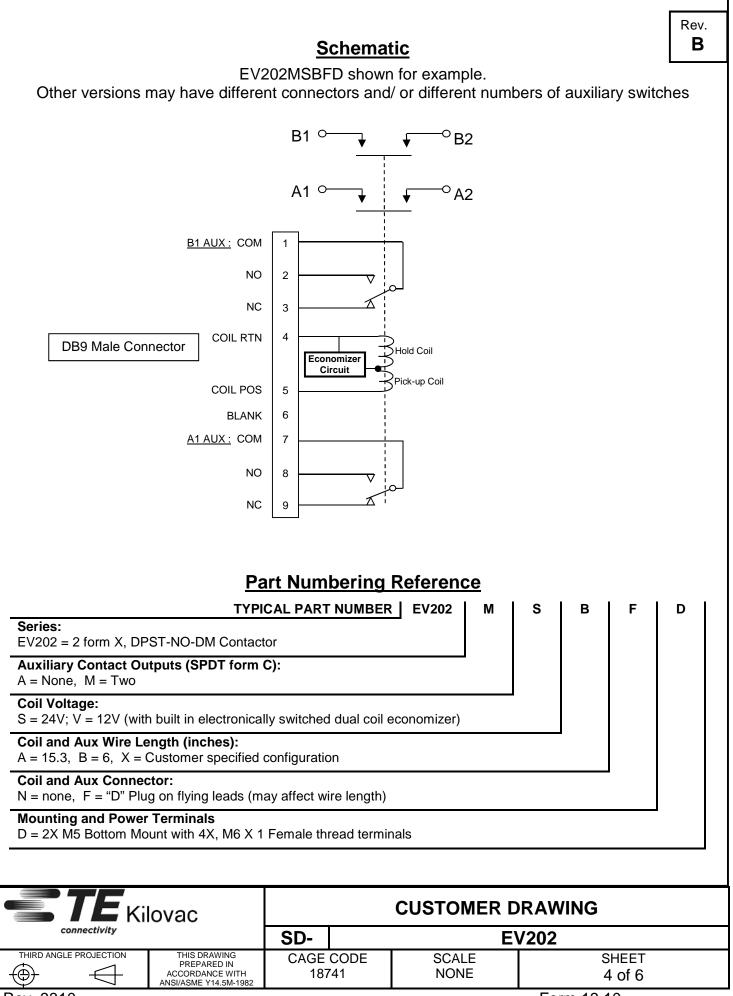
### Wire Color Code

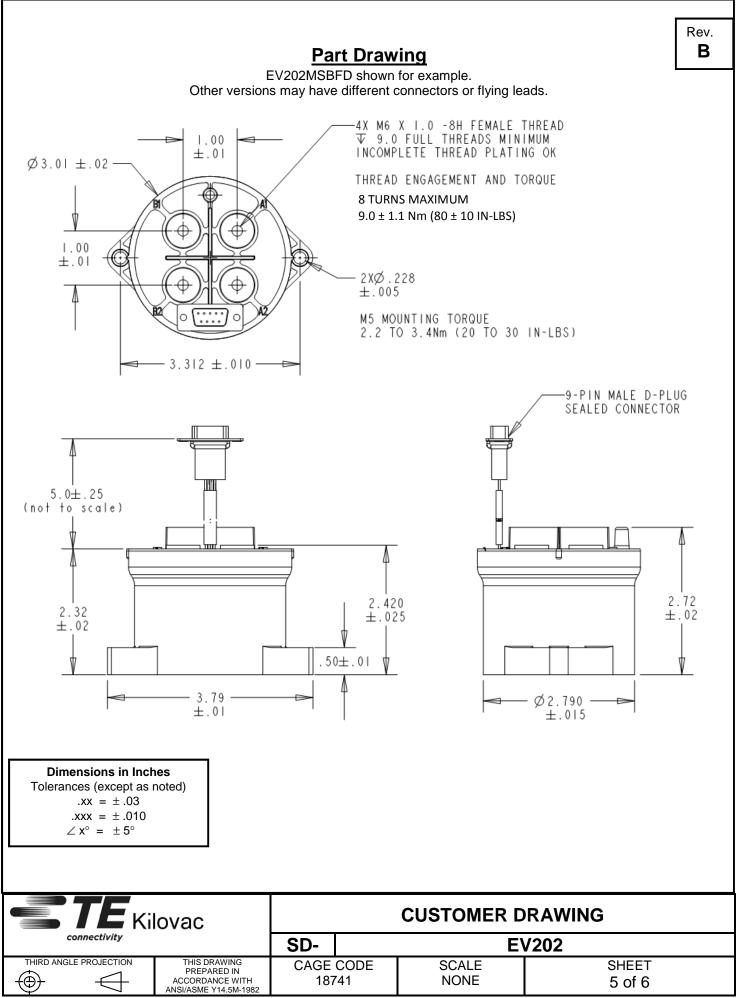
Function	Color			
Coil +	Red			
Coil Return	Black			
Aux A1 COM	Brown			
NO	Yellow			
NC	Purple			
Aux B1 COM	Orange			
NO	Green			
NC	White			

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

	lovac	CUSTOMER DRAWING			
connectivity	SD- EV202			/202	
THIRD ANGLE PROJECTION THIS DRAWING PREPARED IN ACCORDANCE WITH ANSI/ASME Y14.5M-190		CAGE CODE 18741		SCALE NONE	SHEET 3 of 6
Rev. 3310					Form 13.10

Rev. **B** 





Rev. 3310

Form 13.10

Rev. **B** 

## **Revisions**

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

	lovac	CUSTOMER DRAWING			
connectivity	SD-	SD- EV202			
THIRD ANGLE PROJECTION THIS DRAWING PREPARED IN ACCORDANCE WITH ANSI/ASME Y14.5M-1982		CAGE CODE 18741		SCALE NONE	SHEET 6 of 6
Pov 2210					Form 12 10