## LEV100 Extended Performance Contactor with Aux Contact 150A/1000Vdc Power Switching SPST-NO Auxiliary Contact (Form X)

## **Features**

- Lowest cost, 150A hermetically sealed contactor with Normally Open (NO) auxiliary contact.
- Great for HV isolation and Carry-8kVdc isolation between open main contacts
- Available in both side and bottom mount configurations not position sensitive.
- Hermetically Sealed Suitable for use in explosive/harsh environments without oxidation or contamination of contacts, including long periods of non-operation.
- Typical applications include automotive battery switching and backup, power/motor control circuit isolation, circuit protection and safety.
- 12, 24 and 48Vdc coils available.
- High voltage coil and auxiliary leads rated at 15kV (UL 3239) Wire option "C"
- UL 508 Recognized File No. E208033



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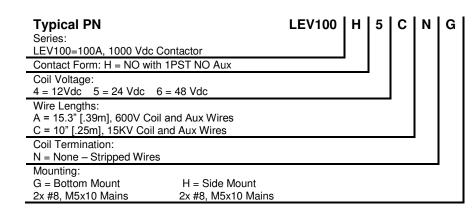
		E	550 Linden Ave, Carpinteria, CA 93013 Phone: (805) 220-2020 Fax: (805) 220-2075 http://www.te.com				
connectivity			LEV100H Extended Performance w/ Aux Contact Data Sheet				
PREP. BY	J. Reyes	9/28/2016	DWG NO.				
CHKD. BY	M. Priest	9/28/2016	SD-LEV100H EP				
			CAGE CODE 18741	SCALE	SHEET		
ENG APRVL	J. Reyes	9/28/2016	10741	none	1 of 4		

Physical Data	<u>c</u>	General	Specifica Units	<u>itions</u>		
Contact Arrangement: Main Contac	ts			SPST-I	NO (Form X)	
Auxiliary [No						
Dimensions				See		
Weight, Nominal	kg					
Environmental Data						
Shock, 11ms $\frac{1}{2}$ sine (operating)			G peak		20	
Sine Vibration, 20 G <sub>pk</sub>			Hz	55-2000		
Operating Temperature Range			°C	-40 to +80		
Noise Emission (at 100 mm distance		dB(a)	70			
Electrical Data						
Voltage Rating: Main Contacts Swit	nax)	Vdc	1000			
Current Rating, Continuous: Main Contacts [N			A			
[Note				150		
Short Term Current (3 min) [Note 3] Contact Voltage Drop: Main Contac		V	200		ont	
Joniaci voliage Drop: Main Coniac	IS		V	V 0.05 max @ rated curren UL Recognized Internal Qual		
Hot Switching performance (polarity	sensitiv	e):				
50A make/l			Cycles		5	0
100A make	/break (	@ -400Vdc	,		10	
200A make/	-	-			50	
1000A brea					2	
		make only @+400Vdc		6000	1 250	
Maximum Short Circuit Current (1/2			A		1250	00
		d contacts)			.200	
Mechanical Life			Cycles	1,0	000,000	
				UL Recognized		ualification
Dielectric Withstand Voltage:	•				_	
Between Open Contacts [Note 4]				4250	56	
Insulation resistance	Conta	acts to Coil	Vrms	4250	22	00
Terminal to Terminal/ Terminals to C	MO	100 min @ 500Vdc new		W		
			MΩ	50 min @ 500Vdc end of life		
Coil Data						
Coil Voltage, Nominal/ Max		Vdc	12/16	24/28		8/52
Coil Resistance (20°C)		Ω	26	96		392
Pick Up Voltage (20°C)		Vdc	8	16		33
Dropout Voltage (20°C)		Vdc	≤1.2	≤ 2.4		4.8
Coil Current (nominal at 20°C, 12 Vdc)		А	0.46	0.25		).12
Coil Power (nom @ Vnom, 20°C)		W	5.5	6.0		6.0
Main Contacts: Operate Time (max) Operate Bounce (max)		ms	25			
		ms	6			
Release	etime	ms		10		
- TE				Linden Ave, Carp (805) 220-2020 http://www.	Fax: (805) 22	
				SD-LEV1	00H EF	
HD ANGLE PROJECTION THIS DRAV PREPARE ACCORDANC ANSI/ASME Y14	D IN E WITH	CAGE CODE 18741		SCALE		SHEET 2 of 4

Notes:

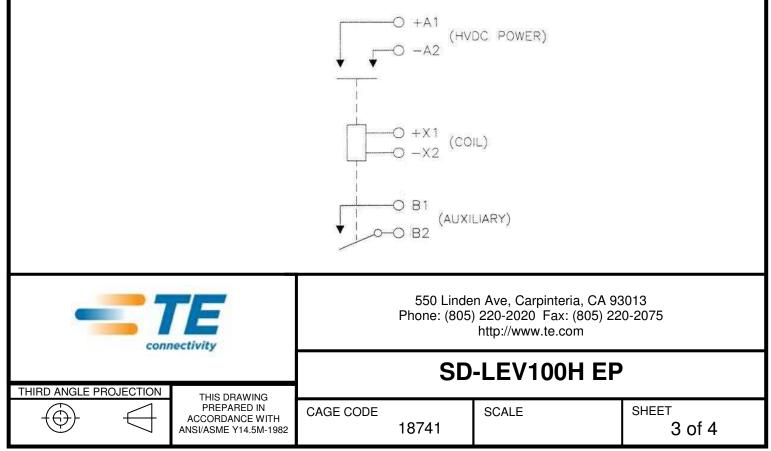
- [1] Auxiliary contact ratings: 3A, 125Vac to 10,000 cycles Min; 3A, 24Vdc to 10,000 cycles Min.; 100mA, 10Vdc to 1M cycles. Auxiliary contact is mechanically linked to the main power contacts. Minimum Aux Contact Load 10mA/12Vdc
- [2] 100A with 4 AWG at 85C and 150A with 2 AWG at 40C ambient. Current rating depends upon conductor size. Keep terminals below 175C max continuous.
- [3] 3 minutes at +40C ambient, 1 minute at +80C ambient with (8 AWG) conductor.
- [4] 2200 Vrms minimum under all conditions, until end of life.

## Part Numbering System



## **Schematic**

NOTES: Contactors should be installed so that current flows from A1 (+) to A2 (-)



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