			REVISIONS			
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Electrical Characteristics

Contact Ratings —

DC resistive — 2 amps at 28 volts (50,000 operations)
1 Amp @ 28 V (100,000 operations)
DC inductive — 0.5 amps at 28 volts, 200 mH

AC resistive — 0.5 amps at 115 volts AC — 0.125 amps at 115 volts (case grounded)

Low-level — 50 µA at 50 mV Peak AC or DC

Contact Resistance —

0.050 ohms max.; 0.150 ohms after life test

Life — 100,000 operations at rated loads listed; 1,000,000 operations at low-level loads

Operating Characteristics

Operate Time — 4 ms max.

Release Time — 4 ms max.

Contact Bounce — 1.5 ms

Dielectric Strength —

500 volts rms at sea level; 350 volts rms at 70,000 feet and above

Insulation Resistance — 1,000 megohm min. over temperature range

Environmental Characteristics

Vibration — 30G, to 3000 Hz

Shock — 100 G at 11 ms

Temperature — -65°C to +125°C

Ordering Instructions

Example: The relay selected in the example is a FORM AB .150-grid relay, current calibrated, end bracket mounting with 0.13-inch solder hook header, 210 ohms coil resistance, and 50 mW sensitivity. By choosing the proper code for each of these relay characteristics, the catalog number is 3SBC6131E2. The letter R following sensitivity code indicates relay received 5000 operation miss-test. Ex. 3SBC6131E2R.

Note: Relays specified by catalog numbers (per above directions) are general use items controlled by catalog specifications. Relays to be controlled by customer drawings — Mount or relays having requirements not covered in this publication — will be assigned special catalog numbers upon request.

Calibration — Mount Heade Coil Related Sensition — Sensi

.150 Grid-space Relays
Type 3SBC (2PDT) Standard

135 mW 2PDT 50 mW (Form AB) 1 PNC-1 PNO

Product Facts

- Low profile... only 0.32 inches high
- Internal diode for coil transient suppression and transistor driven models available
- Qualified to MIL-R-39016/13
- RF designs available

.150 Grid-space Hybrid Relays

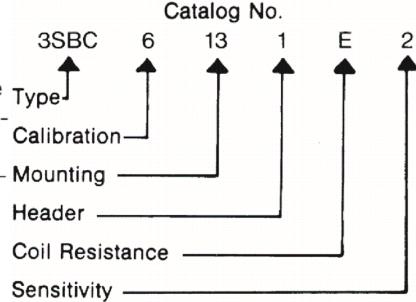
Single Diode, Dual Diode

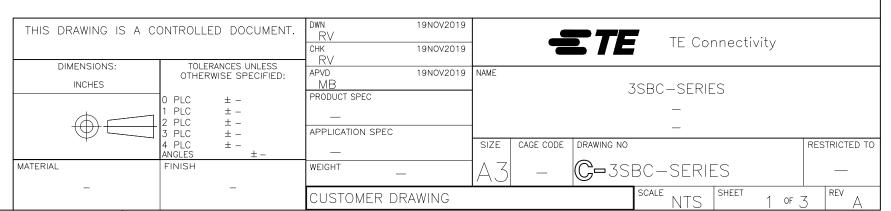
Type 3SBC (2PDT)

135 mW

Product Facts

- Low profile... only0.32 inches high
- 50 milliwatt forms available
- Qualified to MIL-R-39016/37
- Qualified to MIL-R-39016/38
- RF designs available





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Coil Table Type 3SBC (All Values DC)*2PDT, 135 mW Sensitivity: (Code 1)

	Coil Resistance		Voltage	Calibrated	Current Calibrated, Code 6				
Coil		Suggested	Max. Operate	Release Range		Max. Continuous	Max. Operate		Current 25C (mA)
Code Letter	@ 25C (ohms)	Source Volts†	Volts @ 25C	Max.	Min.	Current @ 125C (mA)	Current @ 25C (mA)	Max.	Min.
Α	44 ± 10%	3.5-6.2	2.4	1.45	0.26	87.0	54.5	32.7	6.00
В	56 ± 10%	4.0-7.0	2.7	1.6	0.3	77.0	48.3	28.6	5.30
D	140 ± 10%	6.4-12.0	4.4	2.6	0.5	50.3	31.4	18.5	3.60
E	210 ± 10%	8.0-16.0	5.4	3.2	0.6	40.0	25.7	15.4	2.80
L	650 ± 10%	13.6-24.0	9.5	5.6	1.0	22.9	14.3	8.6	1.54
K	1350 ± 10%	20.0-35.0	13.5	8.1	1.5	15.5	10.0	6.0	1.10
N	2245 ± 10%	26.0-46.0	17.1	10.5	1.9	12.0	7.6	4.7	0.84

Coil-Data (All Values DC)* Type 3SBC Form AB 50 mW Sensitivity non mil spec: (Code 2)

			Voltage	Calibrated	Current Calibrated, Code 6				
Coil	Coil Resistance	Suggested	Max. Operate	Release Range	~	Max. Continuous	Max. Operate		Current 25C (mA)
Code Letter	@ 25C (ohms)	C Source Volts		Max.	Min.	Current @ 125C (mA)	Current @ 25C (mA)	Max.	Min.
В	56 ± 10%	2.6-7.0	1.8	1.1	0.16	46.5	29.1	18.2	3.30
С	85 ± 10%	3.3-9.5	2.3	1.4	0.20	38.7	24.2	15.1	2.70
D	140 ± 10%	4.3-12.0	2.9	1.8	0.27	30.4	19.0	11.9	2.10
E	210 ± 10%	5.3-14.0	3.6	2.2	0.33	24.8	15.5	9.7	1.75
F	360 ± 10%	6.7-19.0	4.5	2.8	0.41	18.9	11.8	7.2	1.30
G	510 ± 10%	8.2-23.0	5.6	3.5	0.51	15.8	9.9	6.2	1.10
Н	775 ± 10%	10.0-26.0	6.8	4.2	0.62	12.8	8.0	5.0	0.90
K	1350 ± 10%	13.2-35.0	9.0	5.6	0.82	9.8	6.1	3.8	0.68
N	2245 ± 10%	16.8-46.0	11.4	7.1	1.00	7.4	4.6	2.9	0.52

^{*}Values listed are factory test and inspection data. User should allow for meter variations.

Coil Table Single Diode (All Values DC)*(2DPT), 135 mW Sensitivity: (Code 5)

	de Resistance	1	oltage Calibrat	ed, Code 5		Current Calibrated, Code 6				
Coil Code		Suggested Source	Max. Operate		Voltage @ 25C	Max. Contin- uous Current	Max. Operate		e Current 25C (mA)	
Letter		Volts†	Volts @ 25C	Max.	Min.	@ 125C (mA)	25C (mA)	Max.	Min.	
A B	44 ± 10% 56 ± 10%	3.5- 6.2 4.0- 7.0	2.4 2.7	1.45 1.6	0.26 0.3	87.0 77.0	54.5 48.3	32.7 28.6	6.00 5.30	
D E	140 ± 10% 210 ± 10%	6.4-12.0 8.0-16.0	4.4 5.4	2.6 3.2	0.5 0.6	50.3 40.0	31.4 25.7	18.5 15.4	3.60 2.80	
L K	650 ± 10% 1350 ± 10%	13.6-24.0 20.0-35.0	9.5 13.5	5.6 8.1	1.0 1.5	22.9 15.5	14.3 10.0	8.6 6.0	1.54	
N	2245 ± 10%	26.0-46.0	17.1	10.5	1.9	12.0	7.6	4.7	0.84	

Coil Table Dual Diode (All Values DC)*(2DPT), 135 mW Sensitivity: (Code 6)

	**								
Α	44 ± 10%	3.9- 7.0	3.4	2.0	0.37	98.2	77.3	45.5	8.4
В	56 ± 10%	4.6- 8.0	3.7	2.2	0.41	89.8	66.1	39.3	7.1
D	140 ± 10%	7.8-12.0	5.4	3.2	0.6	52.4	38.6	22.9	4.3
E	210 ± 10%	9.3-16.0	6.4	3.8	0.7	41.4	30.5	18.1	3.3
L	650 ± 10%	15.0-24.0	10.5	6.2	1.1	23.6	16.2	9.5	1.7
K	1350 ± 10%	21.0-35.0	14.5	8.7	1.6	16.0	10.7	6.4	1.2
N	2245 ± 10%	27.0-46.0	18.1	10.9	2.0	12.1	8.1	4.9	0.9

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Coil Table Type 3SBC (All Values DC)*2PDT, 135 mW Sensitivity: (Code 1)

			Voltage	Current Calibrated, Code 6					
Coil	Coil Resistance	Suggested	Max. Operate	Release Range		Max. Continuous	Max. Operate		Current 25C (mA)
Code Letter	@ 25C (ohms)		Volts @ 25C	Max.	Min.	Current @ 125C (mA)	Current @ 25C (mA)	Max.	Min.
Α	44 ± 10%	3.5-6.2	2.4	1.45	0.26	87.0	54.5	32.7	6.00
В	56 ± 10%	4.0-7.0	2.7	1.6	0.3	77.0	48.3	28.6	5.30
D	140 ± 10%	6.4-12.0	4.4	2.6	0.5	50.3	31.4	18.5	3.60
E	210 ± 10%	8.0-16.0	5.4	3.2	0.6	40.0	25.7	15.4	2.80
L	650 ± 10%	13.6-24.0	9.5	5.6	1.0	22.9	14.3	8.6	1.54
K	1350 ± 10%	20.0-35.0	13.5	8.1	1.5	15.5	10.0	6.0	1.10
N	2245 ± 10%	26.0-46.0	17.1	10.5	1.9	12.0	7.6	4.7	0.84

Coil-Data (All Values DC)* Type 3SBC Form AB 50 mW Sensitivity non mil spec: (Code 2)

			Voltage	Calibrated	Current Calibrated, Code 6					
Coil	Coil Resistance	Suggested	Max. Operate	Release Range	Voltage @ 25C	Max. Continuous	Max. Operate		Current 25C (mA)	
Code Letter	@ 25C (ohms)		Source Volts†	Volts @ 25C	Max.	Min.	Current @ 125C (mA)	Current @ 25C (mA)	Max.	Min.
В	56 ± 10%	2.6-7.0	1.8	1.1	0.16	46.5	29.1	18.2	3.30	
С	85 ± 10%	3.3-9.5	2.3	1.4	0.20	38.7	24.2	15.1	2.70	
D	140 ± 10%	4.3-12.0	2.9	1.8	0.27	30.4	19.0	11.9	2.10	
E	210 ± 10%	5.3-14.0	3.6	2.2	0.33	24.8	15.5	9.7	1.75	
F	360 ± 10%	6.7-19.0	4.5	2.8	0.41	18.9	11.8	7.2	1.30	
G	510 ± 10%	8.2-23.0	5.6	3.5	0.51	15.8	9.9	6.2	1.10	
Н	775 ± 10%	10.0-26.0	6.8	4.2	0.62	12.8	8.0	5.0	0.90	
K	1350 ± 10%	13.2-35.0	9.0	5.6	0.82	9.8	6.1	3.8	0.68	
N	2245 ± 10%	16.8-46.0	11.4	7.1	1.00	7.4	4.6	2.9	0.52	

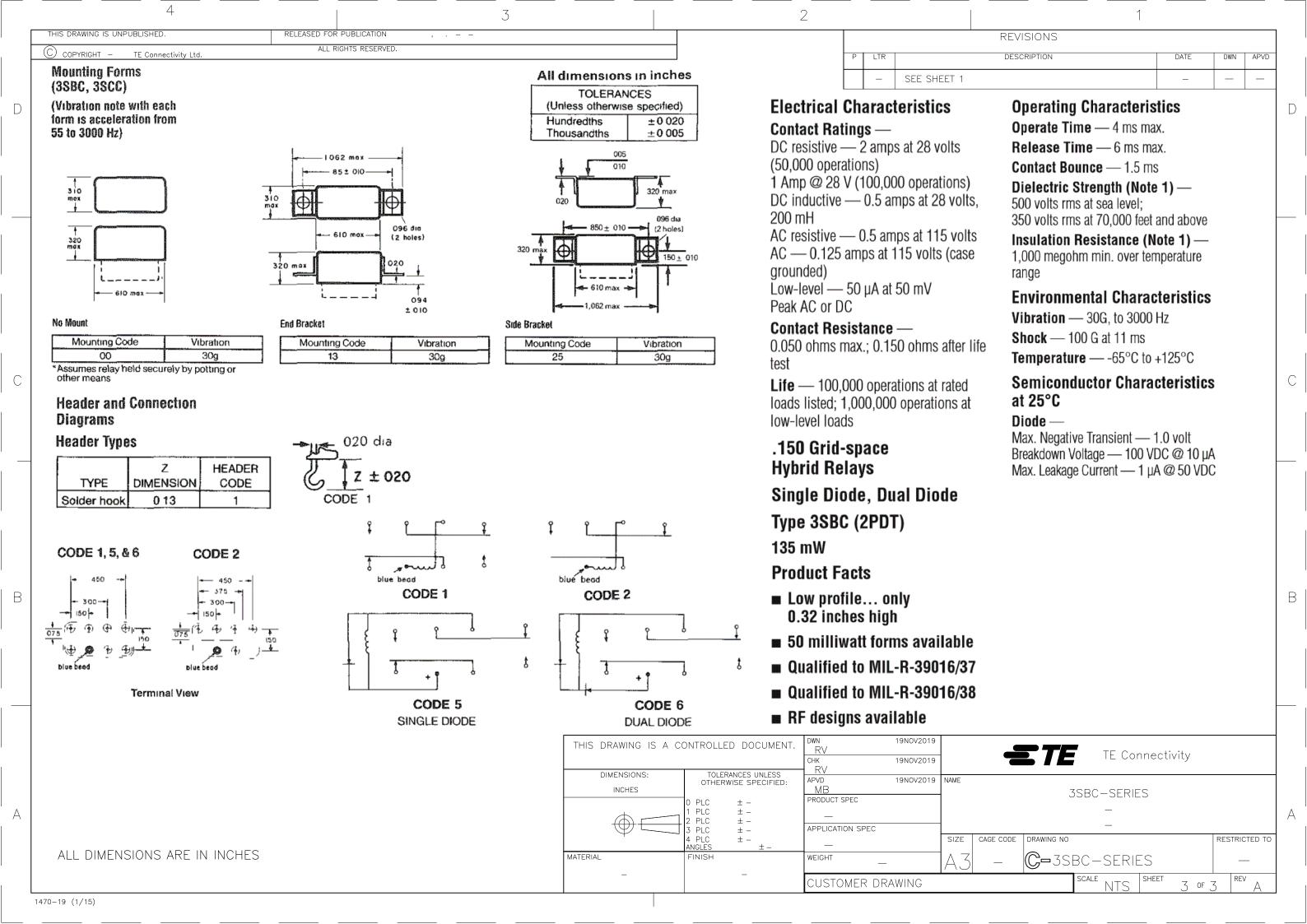
*Values listed are factory test and inspection data. User should allow for meter variations. †At nominal resistance plus 10%. ‡Applicable over the operating temperatur

‡Applicable over the operating temperature range in circulating air.

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В

[†]At nominal resistance plus 10%. ‡Applicable over the operating temperature range in circulating air.



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