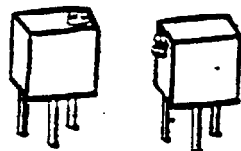


British Standards Institution
2 Park Street, London W1A 2BS

Specification Available From:
As shown in PD9002 and CECC00200
Bourns Electronics Limited
Hillend Industrial Park
Dunfermline, Fife, KY11 5JD

ELECTRONIC COMPONENTS OF ASSESSED
QUALITY IN ACCORDANCE WITH CECC
41 000, CECC 41 100 AND CECC 41 101

Form S series
Dimensional
Patterns see
Appendix A



For individual details see
Tables 1 and 2 and Appendix A

MASTER

TABLE 1

Style	Dimensional Pattern See Appendix A	Rated Dissipation W @ 70 DEG	Limiting Element Voltage V dc or ac rms	Isolation Voltage V dc or ac peak		Limiting Slider Current mA max
				Normal	Low Air Pressure	
A J	S13	0.2	70	100	92.5	150
B J	S14	0.2	70	100	92.5	150
A K	S13	0.2	70	100	92.5	150
B K	S14	0.2	70	100	92.5	150

NOTE: The style reference code shown here is arbitrarily chosen and relates to this detail specification only.

Refer to the Qualified Products List CECC00200 for details of
manufactures approval to this specification.

BS CECC 41101-013



ISSUE B

MAY 1990

LEAD SCREW ACTUATED

PRESET POTENTIOMETERS

SQUARE FORMS

PRODUCT CODE 3260W, 3260H

CONSTRUCTION: CONTAINER SEALED

RESISTIVE ELEMENT: WIREWOUND

ACTUATING DEVICE: INSULATED FROM
RESISTIVE ELEMENT

SLIPPING CLUTCH: AT EACH END OF
TRAVEL

RIGID TERMINATIONS: SUITABLE FOR
MOUNTING ON PRINTED WIRING BOARDS

ASSESSMENT LEVEL "S"

TABLE 2

Climatic Category	Limits of resistance change (% R)		Rotational Noise	Temperature characteristic of resistance (DEG C)		
	Climatic sequence Damp heat, steady state Mechanical endurance Electrical endurance at 70 DEG C (a-c) Electrical endurance at upper category temperature (a-c)	Electrical endurance at 70 DEG C (a-b) Electrical endurance at upper category temperature (a-b)		Code	-55/20	20/70
55/155/ 56	$\Delta R: \leq + (2.0\% + / - 0.1\Omega)$	$\Delta R: \leq + (3.0\% + / - 0.1\Omega)$	$\leq 100 \text{ n}$	J	0.375	0.25
				K	0.75	0.50
						1.35

Note: For a, b and c see Appendix A Outline

Temperature Characteristic of
resistance (20 to 70 DEG C) :

Rotational Noise : $\leq 100\mu$ unless otherwise specified

Full document details: CECC 41101-012 0

2 MARKING

- 2.1 The following marking information, in the order of importance given below, is required:
- 1) Rated resistance
 - 2) Tolerance on rated resistance
 - 3) Detail specification and style
 - 4) Date of acceptance (a nationally approved code may be used)
 - 5) Manufacturer's name and trade mark
- 2.2 The potentiometer shall be clearly marked with 1) and 2) above using, where practicable, one of the coding methods specified in IEC 62, and with as many of the remaining items as is practicable.
- 2.3 The package containing the potentiometer shall be clearly marked with 1) to 5).
- 2.4 Any additional marking shall be so applied that no confusion can arise.

3 RELATED DOCUMENTS

IEC 62	Marking codes for resistors and capacitors.
IEC 63	Preferred number series for resistors and capacitors.
IEC 68	Basic environmental testing procedures for electronic components and electronic equipment.
IEC 410	Sampling procedures and tables for inspection by attributes for electronic components of assessed quality. (See CECC 00 007 (1978))
CECC 00 007 (1978)	Basic specification: sampling plans and procedures for inspection by attributes.
CECC 00 200	Qualified Products List.
CECC 41 000 (1977)	Generic specification for potentiometers.
CECC 41 100 (1978)	Sectional specification for lead-screw actuated and rotary preset potentiometers.
CECC 41 101 (1978)	Blank detail specification for preset potentiometers.

4 ORDERING INFORMATION

Orders for potentiometers covered by this specification shall contain the following information:

- Resistance value and tolerance
- Number of the detail specification and style reference

5 CERTIFIED TEST RECORDS

Certified Test Records not required.

6 DELAYED DELIVERY

The prescriptions of 3.6 of CECC 41 000 shall apply except that the Inspection Level shall be reduced to S-2 and the period shall be extended to two years.

7 ADDITIONAL INFORMATION (Not for inspection purposes)7.1 Resistance Law

The resistance law of the potentiometer covered by this detail specification approximates to that for a linear law as given in Figure 3 of CECC 41 000.

7.2 Resolution

Rated Resistance	R						kR					
	10	20	50	100	200	500	1.0	2.0	5.0	10.0	20.0	25.0
Resolution (%)	1,90	1,50	1,25	1,0	0,94	0,50	0,50	0,45	0,34	0,29	0,28	0,23

8 INSPECTION REQUIREMENTS

8.1 When drying is prescribed Procedure 1 of 4.2 of CECC 41 000 shall be used.

8.2 When it is desired to obtain qualification approval by adopting the fixed sample size procedure, use shall be made of the test schedule given for that purpose in CECC 41 100.

The conditions of test and the performance requirements shall be identical to those prescribed for quality conformance inspection in this specification.

8.3 In the quality conformance inspection the values representative of the whole approved range shall be tested within one year (Groups A, B and C only).

(See Notes 1 and 2)

Clause Number and test	Conditions of Test	IL	AQL	Performance Requirements	
GROUP A INSPECTION					
To be conducted on a sampling basis, lot by lot					
<u>Sub-Group A1</u> (Non destructive)		II	4,0%	As in 4.3.1	
4.3.1 Visual Inspection					
<u>Sub-Group A2</u> (Non destructive)		II	1,0%	As in 4.3.2	
4.3.2 Marking					
4.5 Element resistance				As in 4.5.1	
<u>Sub-Group A3</u> (Non destructive)		S-2	4,0%	As specified in Appendix A	
4.3.3 Dimensions (gauging)					
<u>Sub-Group A4</u> (Non destructive)		S-3	1,0%	R	TERMINAL RESISTANCE
4.6 Terminal resistance	Resistance a to b and Resistance b to c			<100	>1.0Ω
				>100	<0.1% R
4.4 Continuity	(see Note 4)			As in 4.4	
4.15 Rotational noise	Method B			See Table 2	
4.12 Voltage proof	Normal air pressure (See D1.1 and table 1)			As in 4.12.5	
4.8 Mechanical and Electrical travel	(See C1.1, C1.2 and note 8) Effective operating turns			> 70% of total mechanical travel	
GROUP B INSPECTION					
To be conducted on a sampling basis, lot by lot					
<u>Sub-Group B1</u> (Destructive)		S-2	1,5%	< 35 mNm	
4.16 Starting torque	(See C1.3)				
4.22.3 Container sealing	Temperature: 85 to 90 DEG C (1 minute total immersion time)				
				As in 4.22.3	

Notes on Page (14)