SLOVENSKI STANDARD
SIST EN 141101:2002

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Blank detail specification: Lead-screw actuated and rotary preset potentiometers

Blank Detail Specification: Lead-screw actuated and rotary preset potentiometers

Vordruck für Bauartspezifikation: Trimmpotentiometer mit Einstellung durch Gewindespindel oder durch direktes Drehen

Spécification particulière cadre: Potentiomètres de réglage commandes par vis

Ta slovenski standard je istoveten z: EN 141101:1992

ICS:

31.040.20	Potenciometri, spremenljivi upori	Potentiometers, variable resistors

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EUROPEAN STANDARD
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EN 141 101

July 1992

UDC:

Descriptors: Quality, electronic components, potentiometers

English version

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This European Standard was approved by the CENELEC Electronic Components Committee (CECC) on 8 August 1991. The text of this standard consists of the text of CECC 41 101 Issue 2 1991 of the corresponding CECC Specification. CENELEC members are bound to comply with CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the General Secretariat of the CECC or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CECC General Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and United Kingdom. The membership of the CECC is identical, with the exception of the national electrotechnical committees of Greece, Iceland and Luxembourg.

CECC

CENELEC Electronic Components Committee

Comité des Composants Electroniques du CENELEC

CENELEC Komitee für Bauelemente der Elektronik

General Secretariat: Gartenstr. 179, D- 6000 Frankfurt/Main 70

Ref. No. EN 141 101 : 1992 E

Förderverein für Elektrotechnische Normung (FEN) e. V.
Cenelec Electronic Components Committee

CECC

Système Harmonisé d'Assurance de la Qualité
des Composants Electroniques

SPECIFICATION PARTICULIERE CADRE:

POTENTIOMETRES DE REGLAGE COMMANDES PAR VIS

Harmonized System of Quality Assessment for
Electronic Components

BLANK DETAIL SPECIFICATION:

LEAD-SCREW ACTUATED AND ROTARY PRESET POTENTIOMETERS

Harmonisiertes Gütebestätigungssystem für
Bauelemente der Elektronik

VORDRUCK FÜR BAUARTSPEZIFIKATIONEN:

TRIMMPOTENTIOMETER MIT EINSTELLUNG DURCH GEWINDESPINDEL ODER DURCH DIREKTES DREHEN

2 Edition
Issue
Ausgabe

CECC 41 101

1991

FOREWORD

The CENELEC Electronic Components Committee (CECC) is composed of those member countries of the European Committee for Electrotechnical Standardization (CENELEC) who wish to take part in a harmonized System for electronic components of assessed quality.

The object of the System is to facilitate international trade by the harmonization of the specifications and quality assessment procedures for electronic components, and by the grant of an internationally recognized Mark, or Certificate, of Conformity. The components produced under the System are thereby acceptable in all member countries without further testing.

This specification has been formally approved by the CECC, and has been prepared for those countries taking part in the System who wish to issue national harmonized specifications for LEAD-SCREW ACTUATED AND ROTARY PRESET POTENTIOMETERS. It should be read in conjunction with the current regulations for the CECC System.

At the date of printing of this specification, the member countries of the CECC are Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom, and copies of it can be obtained from the addresses shown on the blue fly sheet.

PREFACE

This blank detail specification was prepared by CECC WG 4B: "Potentiometers".

It is based, wherever possible, on the Publications of the International Electrotechnical Commission, and in particular on IEC 393-1: Potentiometers. Part 1 (Terms, inspection procedures and methods of test).

The text of this Issue 2 was circulated to the CECC for voting in the document indicated below and was ratified by the President of the CECC for printing as a CECC Specification.

Document	Date of Voting	Report on the Voting
CECC(Secretariat)2503	June 1991	CECC(Secretariat)2821

EFFECTIVE DATE

This Issue 2 shall become effective for all new applications for qualification approval on 15 December 1991. Issue 1 shall remain valid to cover all past approvals.

IDENTIFICATION OF THE DETAIL SPECIFICATION (DS) AND THE COMPONENT

The first page of the DS should have the layout recommended on page 3. The numbers in brackets correspond to the indications to be completed thereunder:

(1) The Name of the National Standards Organization under whose authority the DS is published and, if applicable, the organization from whom the DS is available.

(2) The CECC symbol and the number allotted to the DS by the CECC General Secretariat

(3) The number and issue number of the CECC generic and sectional specification as relevant; also national reference if different

(4) If different from the CECC number, the national number of the DS, date of issue and any further information required by the national system, together with any amendment numbers

(5) A brief description of the potentiometer

(6) Information on typical construction (where applicable); for example: non-wirewound, leadscrew actuated etc.

(7) An outline drawing with main dimensions which are of importance for interchangeability, and/or reference to the appropriate national or international document for outlines. Alternatively, this drawing may be given in an annex to the DS, but (7) should always contain an illustration of the general outer appearance of the component

(8) The application or group of applications covered, or, preferably, the level(s) of quality assessment covered by the DS

(9) Reference data giving information on the most important properties of the component which allow comparison between the various component types intended for the same, or for similar, applications.

For (5) and (6) the text to be given in the DS should be suitable for an entry in the CECC 00 200 (QPL) and CECC 00 300 (Library List).

Specification available from: (1)	CECC 41 101 (2)
ELECTRONIC COMPONENTS OF ASSESSED QUALITY IN ACCORDANCE WITH CECC 41 000 AND CECC 41 100 (3)	(4)
(7)	Brief description (5) Constructional details
	(6)
All dimensions in mm	ASSESSMENT LEVEL: (8)

(9)

Table 1

RATED DISSIPATION AT 70 °C (W)	LIMITING ELEMENT VOLTAGE V d.c or a.c (r.m.s)	INSULATION VOLTAGE V d.c or a.c peak	
		NORMAL AIR PRESSURE	LOW AIR PRESSURE

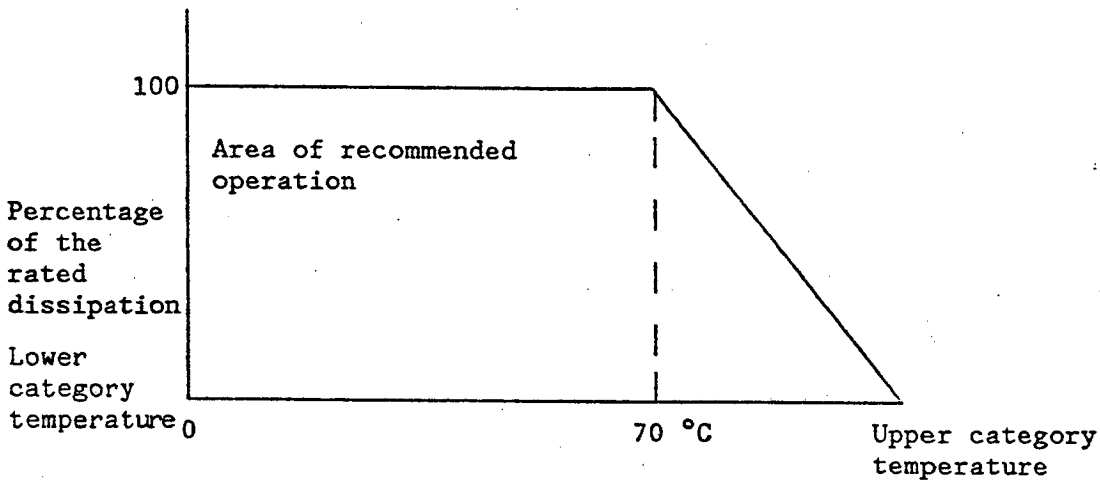
Information about manufacturers who have components qualified to this detail specification is available in tne current CECC 00 200: Qualified Products List.

1 Ratings and characteristics

RESISTANCE RANGE	The range of values in each style is given in the qualified products list (QPL)
STANDARD SELECTION TOLERANCE	..... %
TEMPERATURE CHARACTERISTIC OF RESISTANCE (20 °C to 70 °C)	$\Delta R \leq \lvert .....\%R \rvert$ ($\Delta R/R.\Delta T \leq .....10^{-6}/°C$)
CLIMATIC CATEGORY	..../..../....
VIBRATION SEVERITY	...Hz to ...Hz, 0,75 mm or 98 m/s² (whichever is the less severe)
BUMP SEVERITY	390 m/s²; 4000 bumps
or	
SHOCK SEVERITY	490 m/s²; 11 ms
LOW AIR PRESSURE (if applicable)	8,5 kPa (85 mbar)
LIMITS OF RESISTANCE CHANGE AFTER ENDURANCE TESTING	$\lvert ...\%R + ...\Omega \rvert$
STARTING TORQUE	mNm (max.)
END STOP TORQUE (if applicable)	Not less than 5 times the starting torque
TOTAL MECHANICAL TRAVEL	...±... turns or ....°
LIMITING SLIDER CURRENT	mA
ROTATIONAL NOISE	..... or ....%R

1.1 Derating

Potentiometers covered by this specification are derated according to the curve:



The detail specification shall state the maximum allowable dissipation at temperatures other than 70 °C. All break points on the curve shall be verified by test.

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) Resistance law (if other than linear)

(4) Detail specification and style

(5) Date code

(6) Manufacturer's name and trade mark.

2.2 Where space allows the potentiometer shall be clearly marked with (1) and (2) above using 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 (6).

2.4 Any additional marking shall be so applied that no confusion can arise.