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REPORT

On

COMPONENT - TERMINAL BLOCKS

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DESCRIPTION

PRODUCT COVERED:

Component Terminal Blocks, Cat. No. 230, with or without Suffix K, followed by one or two digit number, with or without Suffix DS, **may be followed by MS**, may be followed by GW or HT, may be followed by additional suffixes.

GENERAL:

The terminal blocks are formed into multicircuit terminal strips from 1 to 12 positions which provide screw-tightening pressure wire connectors from conductor termination. They are suitable for factory and field wiring in commercial and general industrial applications within the ratings specified below.

Ratings -

Cat. No.	230, 230DS, 230K, 230KDS
Wire range, AWG	12-22 (1)
Maximum ampere rating	30
Maximum voltage	150/250
general industrial/ commercial	
Torque for field wiring in. lb (N-m)	5 (0.57)

Note (1) for use with two No. 12 AWG Sol/Str for Cat. Nos. 230 & 230DS.

Suffixes - / followed by 1 or 2 digit number is an optional suffix denoting number of poles.

TERMINAL BLOCK NOMENCLATURE CODE:

Example 1:
* $\frac{230}{1}$ $\frac{K}{2}$ $\frac{/2}{3}$ $\frac{DS}{4}$ $\frac{MS}{5}$ $\frac{GW}{6}$ $\frac{XX}{7}$

1. Basic Construction -
230
2. Construction Variation -
No suffix - Standard
K - Same as standard except provided with a 4.2 mm raised base
3. Number of Poles -
1 or 2 digit number
4. Wire Guard -
DS - Provided with a wire guard
No suffix - No wire guard provided

5: Screw Material
 No suffix - steel screws, zinc-plated
 MS - brass screws, unplated

6. Plastic material
 GW - glow wire [REDACTED]
 HT - high temperature [REDACTED]
 Blank - standard [REDACTED]

7. Optional Suffixes (Commercial Purposes Only)
 Additional suffixes may be provided

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

Use - For use only with products where the acceptability of the combination has been determined by Underwriters Laboratories Inc.

Conditions of Acceptability -

1. The mounting suitability should be determined in the end use.
2. The insulating base materials shall not exceed their assigned max operating temperature rating.
- 2A. The insulating bodies are molded of Recognized Component plastic (QMFZ2) as specified in the following tabulation.

<u>Material Manufacturer</u>	<u>Material Designation</u>	<u>Base Material Temperature Rating, °C</u>
[REDACTED]	[REDACTED]	105
[REDACTED]	[REDACTED]	105 (generic)
[REDACTED]	[REDACTED]	105
[REDACTED]	[REDACTED]	130
[REDACTED]	[REDACTED]	105 (generic)
[REDACTED]	[REDACTED]	105
[REDACTED]	[REDACTED]	120
[REDACTED]	[REDACTED]	105 (generic)
[REDACTED]	[REDACTED]	105 (generic)
[REDACTED]	[REDACTED]	120

The materials above may be used interchangeably at 105°C.

3. These devices are suitable for 600 V applications if barriers, standoffs or other suitable means are used to provide acceptable spacing, 1/2 in (12.7 mm) from live parts to uninsulated grounded metal.
4. These devices may be suitable for other than commercial or general industrial use, providing spacing, insulating materials, heat rise, etc. are acceptable in the end use.
5. Terminal Blocks using grade [REDACTED] as insulating base material, shall be **moulded** only in [REDACTED].

<u>General Industrial Use:</u>	<u>Volts</u>	<u>Through Air</u>		<u>Over Surface</u>	
		<u>In.</u>	<u>(mm)</u>	<u>In.</u>	<u>(mm)</u>
	0-150	1/8	(3.2) ^b	1/4	(6.4)
<u>*Commercial Use</u>	126-250	3/32	(2.4) ^b	3/32	(2.4) ^b

^b The spacing between wiring terminals of opposite polarity and the spacing between a wiring terminal and a grounded dead metal part shall not be less than 1/4 in if short-circuiting or grounding of such terminals may result from projecting strands of wire.

Marking - Company name or trademark and catalog number or type designation on device or shipping carton.

Corrosion Protection - All metal parts are of corrosion resistant material or are suitably plated or painted to resist corrosion.

Tolerance - Unless otherwise specified, all dimensions are nominal.

CAT. NOS. 230, 230DS FIG. 1 (M82-10624)

CONSTRUCTION DETAILS:

Spacing - The following min spacing in inches (mm) are maintained between uninsulated live parts of opposite polarity, uninsulated live parts and uninsulated grounded parts other than the enclosure or exposed metal parts.

General - Fig. 1 shows 12 integrally molded terminal blocks. This device may be molded into continuous strips of one or more units. This gang may be cut to smaller gang sizes including a single terminal block.

*1. Body - One mm min material thickness. See Ill. 1 for dimensional details.

*

2. Wire Connector - Plated copper alloy body and two plated steel or brass screws. For dimensions, see Ill. 1.

3. Cat. No. 230DS - Same as Cat. No. 230 except provided with wire connector, Item 4 below.

4. Wire Connector - Same as Item 2, except provided with one stainless steel pressure plate under screw base, approx 0.01 in thick, 5/64 in wide, 27/64 in long; held in position by two indents at mid-section (one at each side) of connector body.

A. CAT. NO. 230KDS

B. CAT. NO. 230K

FIG. 2 (M85-10988)

General - Cat. Nos. 230KDS and 230K are similar to Cat. Nos. 230 and 230DS except for the height of the insulating base.

- 1.* Body - Same as Fig. 1, Item 1 except for dimensions of bottom of insulating base. 1 mm minimum material thickness. See ILL. 2 for dimensions.
2. Wire Connector (230K) - Same as Fig. 1, Item 2.
3. Wire Connector (230KDS) - Same as Fig. 1, Item 4.