

File E63810
Project 78ME845

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REPORT

on

COMPONENT - TERMINAL BLOCKS

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Control Products Division
Union, NJ

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DESCRIPTION

PRODUCT COVERED:

Terminal Blocks, Cat. Nos. B102, B104, B106, B106-BU, BE106, B108, B112, BE112, with Suffixes C, CT, CH, S, ST, SH and additional Suffix N, and/or Prefix 2 also with Prefix NQ; Cat. Nos. 211, 212, D211, D212, D221, D222, 213, 218, 221, 222, 223, 228 also with Prefix 0 (with end Sections 230, 0230), also NQ0211, NQ0212, (with end Section NQ0230) Cat. Nos. 416, 417, 417AL, 426, 427, 427AL (with end Section 430); Cat. Nos. 514, 515, 515A, 524, 524PS, 525, also with Suffix B and also with Prefix 0 or D (with end Sections 530, 0530), also NQ0514 with end Section NQ0530.

GENERAL:

These devices are terminal blocks provided with pressure wire connectors or wire binding screws for conductor termination. They are intended for general industrial and commercial applications within the ratings specified below.

Ratings - The following cat. nos. use this manufacturer's pressure wire connectors. Refer to illustration indicated for wire sizes. Cat. Nos. 417AL, 427AL rated Nos. 10-4/0 (Cu-Al), 75°C.

Cat. Nos.	Connector-Ill. No.	Voltage		Torque Max	
		Industrial	Commercial	lb-in	Amperes
B102, B104 B106, B106-BU, B108 B112, BE106, BE112, with Suffixes C, CT, CH	Cat. No. 198 - Ill. 1	600 V	600 V	20	50
B102, B104 B106, B108, B112, BE106, BE112, with Suffixes S, ST, SH	Cat. No. 599 - Ill. 1	600 V	600 V	45	65
218, 228	Cat. No. 198 - Ill. 3	600 V	600 V	20	50
212, 222	Cat. No. 200 - Ill. 3	600 V	600 V	35	85
213, 223	Cat. No. 300 - Ill. 3	600 V	600 V	35	65
416, 426	Cat. No. 399 - Ill. 2	600 V	600 V	200	175
417, 427	Cat. No. 400 - Ill. 2	600 V	600 V	375	255
417AL, 427AL	Cat. No. 400AL- Fig. 3	600 V	600 V	275	#
514, 524	Cat. No. 199 - Ill. 4	300 V	250 V	8	50
515, 525	Cat. No. 299 - Ill. 4	300 V	250 V	8	40
*211, 221 0211, 0221	Wire-binding screws	600 V	600 V	-	30(1)

- 230 A copper; 180 A aluminum wire.

* (1) - Acceptable for 35 A max, factory-wiring only when used with No. 10 AWG wire preterminated with suitable ring terminals (prepared conductors).

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

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

Conditions of Acceptability -

- 1) The mounting suitability shall be determined in the end-use.
- 2) Terminals - Cat. nos. with pressure-wire connectors are suitable for field-wiring at the specified ratings. Cat. Nos. 211, 221, 0211 and 0221 have wire-binding screws which are suitable for field-wiring at 30 A max with No. 10 AWG Cu wire.
*
- * 3) Cat. Nos. 211, 221, 0211, 0221 have been evaluated in combination with prepared conductors (wires preterminated with suitable ring terminals) for a 35 A max rating for factory-wiring only.
- 4) These devices may be acceptable for other than general industrial and commercial use provided that that spacings heat rise, insulation, voltage, etc. are acceptable in the end-use.
- 5) The insulating bodies are of molded phenolic, having a generic temperature rating of 150°C. The acceptability of the insulating materials, including any higher temperature rating, is to be judged with respect to the end-use product temperature.

- 6) Miscellaneous Accessories - The manufacturer may provide various parts such as marking tapes or strip (for numbering and identifying each circuit) mounting channels and channel clamps (to receive stacked units) snap-on or hinged covers, jumper strips (to interconnect circuits) and gauging rods (for use with optional snap-on covers to interconnect several covers together). The suitability of these parts shall be investigated.
- 7) The tightening torque for field wiring pressure wire connector terminals is recorded in the Ratings section of this report. This torque value shall be marked on the end-use product for those categories which require torque markings for field terminated conductors.

J.T.
N.M.