



# CERTIFICATION RECORD

The company named below has been authorized by CSA International to represent the products listed in this record as "CSA Certified" and to affix the CSA Mark to these products according to the terms and conditions of the CSA Service Agreement and applicable CSA program requirements (including additional Markings).

File No: 065928\_0\_000

Class No: 6228 01 WIRE CONNECTING DEVICES Terminal Assemblies

## SUBMITTOR

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July 12, 2017 (Replaces: June 18, 2014)

TO THE REQUIREMENTS OF CSA STANDARD C22.2 NO 158-1987 AND ELECTRICAL CERTIFICATION NOTICES 584A AND 584B:

- Terminal blocks for solid and stranded insulated copper conductors:

	Electrical	Wire	Special	
Cat No	Rating (Max)	Range (AWG)	Features	Torque Value
ML-15	250 V, 15A	14-22	B, D Spacing's	0.8 Nm

ML-20	250V, 20A	12-22	B, C (1500) Spacing's	1.2 Nm
ML-35A	125V, 6A	14-20	PCB	0.4N.m
ML-35B	125V, 6A	14-20	PCB	0.4N.m
ML-36	250V, 10A	14-22	PCB	0.5N.m
ML-37	250V, 10A	14-22	PCB	0.5N.m
ML-40....S	250V, 10A	16-24 (S screw Ass.)	PCB	5 Kg-cm
ML-40....F	250V, 10A	14-22 (F screw Ass.)	PCB	5 Kg-cm
ML-41....S	250V, 10A	16-24 (S screw Ass.)	PCB	5 Kg-cm
ML-41....F	250V, 10A	14-22 (F screw Ass.)	PCB	5 Kg-cm
ML-200S1A, 1B, 1C, 1D, 2A, 2B, 2C, 2D	250V, 10A	16-24 SOL, 16-22 STR	-	-
ML-250..	250V, 10A	14-22	SC,PCB,W,ST,L	5 Kg-cm
ML-260, -270, -280 (Exception with S1A or S3A)	250 V, 10 A	16-22 (S screw M3)	L, PCB, ST BC spacing	5 Kg-cm
		14-22 (F screw M3)	SC, PCB, ST B,C spacing	5 Kg-cm
	250 V, 15 A	14-22 (S screw M3.5)	L, PCB, ST B,C spacing	8 Kg-cm
		14-22 (F screw M3.5)	SC, PCB, ST B,C spacing	8 Kg-cm
	250 V, 20 A	14-22 (S screw M4)	L, PCB, ST B,C spacing	12 Kg-cm
		14-22 (F screw M4)	SC, PCB, ST B,C spacing	12 Kg-cm
ML-260, 270 followed by S1A or S3A.	250 V, 10 A	16-22 (S screw M3)	L, PCB, ST B, D spacing	5 Kg-cm
		14-22 (F screw M3)	SC, PCB, ST B, D spacing	5 Kg-cm
	250 V, 15 A	14-22 (S screw M3.5)	L, PCB, ST B, D spacing	5 Kg-cm
		14-22 (F screw M3.5)	SC, PCB, ST B, D spacing	8 Kg-cm

	250 V, 20A	14-22 (S screw M4)	L, PCB, ST B, D spacing	12 Kg-cm
		14-22 (F screw M4)	SC, PCB, ST B, D spacing	12 Kg-cm
ML-400HA	250V, 7A	18-20 SOL	PCB	-
ML-400HB	250V, 7A	18-20 SOL	PCB	-
ML-400NH	250V, 7A	18-26 SOL,	PCB	-
ML-400NV	250V, 7A	20-22 STR		-
ML-400VA	250V, 7A	18-20 SOL	PCB	-
ML-400VB	250V, 7A	18-20 SOL	PCB	-
ML-500AS	250V, 10A	14-22	PCB	8 Kg-cm
ML-500BS	250V, 10A	14-22	PCB	8 Kg-cm
ML-500CS	250V, 10A	14-22	PCB	8 Kg-cm
ML-500AP (or ML-500P)	250V, 10A	14-22	-	8 kg-cm
ML-500AJ	-	-	PCB	-
ML-500BJ	-	-	PCB	-
ML-500CJ	-	-	PCB	-
ML-700N	150 V, 3 A	22-28	PCB, ST B, E spacings	-
ML-800	300V, 10A	16-26 SOL, 16-24 STR	PCB, B, D, E Spacings	-
ML-810	300V, 10A, 150V, 10A	16-26 SOL 16-24 STR	B to E Spacings	-
ML-820	300V, 10A	16-26 SOL, 16-22 STR	PCB, B,D,E Spacings	-
ML-820S2	150V, 10A	16-26 SOL, 16-22 STR	PCB, C Spacings	-
ML-880	300V, 15A	14-26 SOL, 16-22 STR	PCB, B,D,E Spacings	-
ML-950	300V, 7A	18-26	PCB	-
ML-1400, -1800	300V, 10A	14-22 SOL	PCB, B,D,E Spacings	-
ML-1600	300V, 7A	18-26 SOL, 20-24 STR	PCB, B,D,E Spacings	-
ML-1900	300V, 7A	26-16 AWG solid 24-20 AWG stranded	B,D,E spacings	-
ML-2100	300V, 7A	16-26	PCB, ST B.D.E. spacings	-

ML-5100-M5	600V, 60A	4 AWG, STR	B & C spacings	2.4Nm
ML-5100-M6	600V, 75A	3 AWG, STR	B & C spaces	3.0Nm
ML-5200	600 V, 30 A	10	L B & C Spacings	1.4 Nm

LEGEND: "SOL" Solid wires; "STR" Stranded wires; "PCB"PCB mount;  
"L" For use with Lug (Ring or Spade Type) Crimped Onto Wire; "SC" Screw and Clamp Plate;  
"PCB" PCB Mount; "W" Wire Wrap Terminal; "ST" Solder Terminal;

Notes:

1. Suffixes are added to the Cat Nos of Series designations to complete the catalogue number, to denote, e.g. the type of terminals, type of screws and the number of circuits.
  2. Plug housing, ML-500AP mates with, and is used in construction with receptacle housing, ML-500AJ, ML-500BJ, ML-500CJ.
  3. These are Certified only for supply to manufacturers for the assembly, as components, of equipment where the suitability of the combination is determined in the end use.
  4. With suffix "S" in the Cat Nos of Series ML-260, -270, -280 denotes terminal blocks for use with lugs (ring or spade types) crimped onto the wires, and Suffix "F" denotes terminal blocks for directly clamping for stripped wires.
  5. For terminal blocks classified in Spacing Group D, the maximum current per pole is 15A at 51-150V, 10A at 151-300V or 5A at 301-600V.
  6. Support tabs provided on Series ML-260, -270, -280 with suffix "S2" are not electrically connected to current carrying part or grounding circuit.
- Terminal blocks, model series ML-30, screw type, 250 V, 10 A, for use with solid or stranded copper conductors, tightening torque 0.5 N.m, rated as shown below:

Cat No	Amp	Volts	Spacings Groups	Wire Range/Type
ML-30	10	250	B, D, E	24-14 AWG/Solid (Suffix S or F) 22-14 AWG/Str. (Suffix S) 22-16 AWG/Str. (Suffix F) 24-14 AWG/Solid/Str. (without Suffix S or F)

Notes:

1. Cat. No. May be followed by suffix letters, and a number 1 through 22, to denote terminal type, location of soldering post, type of screw assembly and number of poles. Refer to description section of the report for an explanation of the suffices.
2. These terminal blocks are supplied only to manufacturers, as components, for the assembly of Certified electrical equipment where the suitability of the combination is determined by the CSA International.

TO THE REQUIREMENTS OF CSA STANDARD C22.2 NO 158-10

- Terminal blocks for solid and stranded insulated copper conductors:

Cat No	Electrical Rating (Max)	Wire Range (AWG)	Special Features	Torque Value
ML-1700-A	300V, 10A	26-16 AWG/ Solid	B, D, E	-
ML-1700-B		22-16 AWG/ Stranded	Surface Mount	
ML-1700-C				
ML-1700-D				
ML-1700-E	300V, 10A	26-16 AWG/ Solid	B, D, E	-
ML-1700-F		22-16 AWG/ Stranded	Rail Mount	
ML-1700U	300V, 10A	26-16 AWG/ Solid	B, D, E	-
		22-16 AWG/ Stranded	Surface / Rail Mount	

Notes:

- Cat. No. may be followed by any number 1 through 100, and letter "P" for design options.
- These terminal blocks are supplied only to manufacturers, as components, for the assembly of Certified electrical equipment where the suitability of the combinations is determined by the CSA International.
- ML-1700U is combination model for ML-1700-A and ML-1700-B, ML-1700-C and ML-1700-D, or ML-1700-E and ML-1700-F. Suffix "U" replaces 1 to 9 digit(s) number and/or letter(s) denoting a customer code.

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