

Certificate of Compliance

Certificate: 2329965

Master Contract: 161378 (023701_0_000)

Project: 70095489

Date Issued: 2016-11-02

Issued to: **ABB France**
Activite Raccordement
3 Rue Jean Perrin CS 90009
Chassieu Cedex, 69687
FRANCE

The products listed below are eligible to bear the CSA Mark shown



Issued by: *Omar Elouadrhiri*
Omar Elouadrhiri

PRODUCTS

CLASS - C622801 - WIRE CONNECTING DEVICES-Terminal Assemblies

Screw-tightening pressure type terminal block Series ZS, Cat. Nos. ZS followed by 4, 6, 10, 16, 25, 50 or 70 followed by -PE, -PE-R1, -PE-R2, -SF, -SF-T2, -SF1, -SF1-T2, -S, -3S, -3S-PE, -4S, -4S-PE, -S-R2, -S-T2, -S-4S-T2, -S-T2.3, -SP, -SP-T2, -R1, -SF-R1, -SF-R2, -SF-R3, -SF-R4, -SF1-R1, -SF1-R2, -SF1-R3, -SF1-R4, -S-R1, -S-T2-R1, -S-T2.3-R1, -SP-R1, -SP-T2-R1, -S-R2, -S-R3, -T3, T3-R1, -D1, -D2, -D2-S, -D2-S-T2, D2-SF1, D2-SF1-R1, D2-SF1-R3, D-CH-DU, D-CH-UD, -R1, -R2, -ST, -ST-1, -ST-T4 or blank, followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank.

Screw-tightening pressure type terminal Blocks Series ZS, Cat. No. ZS95-PE.

Screw-tightening pressure type terminal block Series ZS: Cat. No(s): ZS150 and ZS240 followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank.

Ratings:

Cat. Nos.	Wire Range (AWG)	Wire Type, Cu (1)	Torque (Nm)	Voltage (V)	Current (A)	Group Designation
ZS4	24-12	SOL/STR	0.5-0.7	600	20	B,C
ZS6	24-10	SOL/STR	0.7-1.0	600	30	B,C



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Cat. Nos.	Wire Range (AWG)	Wire Type, Cu (1)	Torque (Nm)	Voltage (V)	Current (A)	Group Designation
ZS10	24-6	SOL/STR	1.0-1.6	600	42	B,C
ZS16	24-4	SOL/STR	1.6-2.4	600	67	B,C
ZS4-PE	24-12	SOL/STR	0.5-0.7	-	-	B,C
ZS4-PE-R2	24-10	SOL/STR	0.5-0.7	-	-	-
ZS6-PE	24-10	SOL/STR	0.7-1.0	-	-	-
ZS10-PE	24-6	SOL/STR	1.0-1.6	-	-	-
ZS16-PE	24-4	SOL/STR	1.6-2.4	-	-	-
ZS4-SF	24-10	SOL/STR	0.5-0.7	150	10	B,C
				300		D
ZS4-SF-R1, ZS4-SF-R2	24-10	SOL/STR	0.5-0.7	150 (2)	10	B,C
				300 (2)	10	D
ZS4-SF-R3, ZS4-SF-R4	24-10	SOL/STR	0.5-0.7	150	10	B,C
				300 (7)	10	D
ZS4-SF-T2	24-10	SOL/STR	0.5-0.7	150	10	B,C
				300	10	D
ZS4-SF1	24-10	SOL/STR	0.5-0.7	300	10	B,C
				600	5	D
ZS4-SF1-R1, ZS4-SF1-R2	24-10	SOL/STR	0.5-0.7	300 (2)	10	B,C
				600 (2)	5	D
ZS4-SF1-R3, ZS4-SF1-R4	24-10	SOL/STR	0.5-0.7	300 (7)	10	B,C
				600 (7)	5	D
ZS4-SF1-T2	24-10	SOL/STR	0.5-0.7	300	10	B,C
				600	5	D
ZS4-S	24-10	SOL/STR	0.5-0.7	150	25	B,C
				300	10	D
ZS4-S-T2	24-10	SOL/STR	0.5-0.7	150	25	B,C
				300	10	D
ZS4-S-T2.3	24-10	SOL/STR	0.5-0.7	150	25	B,C
				300	10	D



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Cat. Nos.	Wire Range (AWG)	Wire Type, Cu (1)	Torque (Nm)	Voltage (V)	Current (A)	Group Designation
ZS4-SP	24-10	SOL/STR	0.5-0.7	150	18	B,C
				300	10	D
ZS4-SP-T2	24-10	SOL/STR	0.5-0.7	150	18	B,C
				300	10	D
ZS4-R1	24-10	SOL/STR	0.5-0.7	300	26	B,C
ZS4-R2	24-10	SOL/STR	0.5-0.7	300	30	B,C
				600	5	D
ZS4-S-R1	24-10	SOL/STR	0.5-0.7	150	26	B,C
				300	10	D
ZS4-S-T2-R1	24-10	SOL/STR	0.5-0.7	150	26	B,C
				300	10	D
ZS4-S-T2.3-R1	24-10	SOL/STR	0.5-0.7	150	26	B,C
				300	10	D
ZS4-SP-R1	24-10	SOL/STR	0.5-0.7	150	20	B,C
				300	10	D
ZS4-SP-T2-R1	24-10	SOL/STR	0.5-0.7	150	20	B,C
				300	10	D
ZS4-S-R2	24-10	SOL/STR	0.5-0.7	150	13	B,C
				300	10	D
ZS4-S-R3	24-10	SOL/STR	0.5-0.7	300	18	B,C
ZS4-T3	24-12	SOL/STR	0.5-0.7	300	20	B,C
				600	5	D
ZS4-T3-R1	24-10	SOL/STR	0.5-0.7	300	30	B,C
				600	5	D
ZS4-D1	24-12	SOL/STR	0.5-0.7	300	20	B,C
				600	5	D
ZS4-D2	24-12	SOL/STR	0.5-0.7	300	20	B,C
				600	5	D
ZS4-D2-S	24-10	SOL/STR	0.5-0.7	300	27	B,C
				600	5	D



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Cat. Nos.	Wire Range (AWG)	Wire Type, Cu (1)	Torque (Nm)	Voltage (V)	Current (A)	Group Designation
ZS4-D2-S-T2	24-10	SOL/STR	0.5-0.7	300	27	B,C
				600	5	D
ZS4-D2-SF1, ZS4-D2-SF1-R1, ZS4-D2-SF1-R3	24-10	SOL/STR	0.5-0.7	300	12 (fuse) / 30 (feed-through)	B,C
				600	5	D
ZS4-D-CH-DU	24-12	SOL/STR	0.5-0.7	300	20	B,C
				600	5	D
ZS4-D-CH-UD	24-12	SOL/STR	0.5-0.7	300	20	B,C
				600	5	D
ZS6-S	24-10	SOL/STR	0.7-1.0	300	25	B,C
				600	5	D
ZS6-3S	24-10	SOL/STR	0.7-1.0	600	30	B,C
ZS6-3S-PE	24-10	SOL/STR	0.7-1.0	-	-	-
ZS6-4S	24-10	SOL/STR	0.7-1.0	600	30	B,C
ZS6-4S-PE	24-10	SOL/STR	0.7-1.0	-	-	-
ZS6-S-4S-T2	24-10	SOL/STR	0.7-1.0	300	28	B,C
				600	5	D
ZS6-D1	24-10	SOL/STR	0.7-1.0	300	30	B,C
				600	5	D
ZS6-D2	24-10	SOL/STR	0.7-1.0	300	30	B,C
				600	5	D
ZS6-D1-PE	24-10	SOL/STR	0.7-1.0	-	-	-
ZS6-D2-PE	24-10	SOL/STR	0.7-1.0	300 (3)	30 (3)	B,C
				600 (3)	5	D
ZS10-R1	24-6	SOL/STR	1.2-1.6	300	62	B,C
				600	5	D
				600 (4)	62	B,C
ZS10-ST, ZS10-ST-1, ZS10-ST-T4	24-6	SOL/STR	1.2-1.6	300	53	B,C



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Cat. Nos.	Wire Range (AWG)	Wire Type, Cu (1)	Torque (Nm)	Voltage (V)	Current (A)	Group Designation
				600	5	D
				600 (4)	53	B,C
ZS10-S	24-6	SOL/STR	1.0-1.6	300	25	B,C
				600	5	D
ZS10-SP	24-6	SOL/STR	1.0-1.6	300	18	B,C
				600	5	D
ZS10-SF	24-6	SOL/STR	1.0-1.6	600	22	B,C
ZS10-SF-R1	24-6	SOL/STR	1.0-1.6	600 (5)	22	B,C
ZS10-S-R2	24-6	SOL/STR	1.0-1.6	600	22	B,C
ZS10-SF-R3	24-6	SOL/STR	1.0-1.6	600 (6)	22	B,C
ZS10-PE-R1	24-6	SOL/STR	1.2-1.6	-	-	-
ZS25	24-3	SOL/STR	1.6-2.0	600	100	B,C
ZS25-PE	24-3	SOL/STR	1.6-2.0	-	-	-
ZS50	18-0	SOL/STR	2.5-3.5	1000	140	C
ZS50-PE	18-0	SOL/STR	2.5-3.5	-	-	-
ZS70	4-2/0	STR	6.0-7.0	600	159	B,C
ZS70-PE	4-2/0	STR	6.0-7.0	-	-	-
ZS95-PE	2-4/0	STR	9.0-9.5	-	-	-
ZS150 (Main circuit)	2AWG-350kcmil	Cu STR	20	1000	310	C
ZS150 (Auxiliary circuit)	20-8AWG	Cu STR	1.2-1.4	1000	50	C
ZS150 (Auxiliary circuit)	20-10AWG	Cu SOL	1.2-1.4	1000	30	C
ZS240 (Main circuit)	1/0AWG-500kcmil	Cu STR	25	1000	380	C
ZS240 (Auxiliary circuit)	20AWG-8AWG	Cu STR	1.2-1.4	1000	50	C
ZS240 (Auxiliary circuit)	20AWG-10AWG	Cu SOL	1.2-1.4	1000	30	C



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Notes:

- (1) Maximum Solid wire is 10AWG.
- (2) Models ZS4-SF-R1, ZS4-SF-R2, ZS4-SF1-R1 and ZS4-SF1-R2 will be used under 110V maximum because electronic element is 24-110V rated.
- (3) Rating applicable to the upper connections only.
- (4) Models ZS10-ST, ZS10-ST-1, ZS10-ST-T4 and ZS10-R1 are rated 600 V when provided with Spacer Cat. No. ES10-ST.
- (5) Model ZS10-SF-R1, will be used under 110V maximum because electronic element is 24-110V rated.
- (6) Model ZS10-SF-R3, will be used under 250V maximum because electronic element is 115-250V rated.
- (7) Models ZS4-SF-R3, ZS4-SF-R4, ZS4-SF1-R3 and ZS4-SF1-R4 will be used under 250V maximum because electronic element is 115V-250V rated.
- (D) Group Designation D - These limited ratings are applicable to a terminal block for use in or with industrial control equipment whereby the load on any single circuit of the terminal block does not exceed 15 A at 51-150 V, 10 A at 151-300 V, or 5 A at 301-600 V, or the maximum ampere rating, whichever is less.
- The operating temperature of the insulating materials for series ZS150 and ZS240 should not exceed 105C.
- Terminal bodies and screws for aluminum wire and optionally for copper wires, are coated with certified / Listed Conductor Termination Compound (DVIYW) - conductive grease. The coating is factory-applied.
- The terminal blocks are certified as components for use in certified equipment where the acceptability of the combination is to be determined by CSA.
- The catalogue numbers may be completed with suffixes indicating color of body.

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 158-10 - Terminal Blocks

MARKINGS See descriptive report



Supplement to Certificate of Compliance

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*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description
70095489	2016-11-02	Addition of series ZS150 and ZS240 followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or black. Conversion of UL file E60645-20160802.
70027263	2015-07-22	Addition of terminal blocks models ZS4-D-CH-UD and ZS4-D-CH-DU, considered similar in construction to certified model ZS4-D1, to the requirements of standard CSA-C22.2 No. 158-10.
2715799	2014-04-25	CSA Certification of terminal block models ZS50 and ZS50-PE, to the requirements of CAN/CSA-C22.2 No. 158-10.
2683148	2014-01-17	Recertification of terminal block models ZS4-SF, ZS4-SF1-R2, ZS4-S, ZS4-D1, ZS6-S, ZS6-D1, ZS10-S, with new technical specifications and ratings, to the requirements of CAN/CSA-C22.2 No. 158-10.
2652823	2013-12-02	CSA Certification of terminal block models ZS4-D2-SF1, ZS4-D2-SF1-R1, ZS4-D2-SF1-R3, ZS4-R2, ZS4-PE-R2, ZS25 and ZS25-PE, to the requirements of CAN/CSA-C22.2 No. 158-10.
2624779	2013-06-27	CSA Certification of terminal block models ZS6-3S, ZS6-4S, ZS6-3S-PE, ZS6-4S-PE, ZS6-S-4S-T2, to the requirements of CAN/CSA-C22.2 No. 158-10.
2619444	2013-04-23	CSA Certification of terminal block models ZS4-T3 and ZS4-T3-R1, to the requirements of CAN/CSA-C22.2 No. 158-10.
2585340	2013-02-15	CSA Certification of terminal block models ZS4-D2-S and ZS4-D2-S-T2, to the requirements of CAN/CSA-C22.2 No. 158-10.
2552122	2012-12-19	CSA Certification of terminal block models ZS10-SF, ZS10-SF-R1, ZS10-S-R2 and ZS10-SF-R3 to the requirements of CAN/CSA-C22.2 No. 158-10.
2552121	2012-12-18	CSA Certification of terminal block models ZS10-R1, ZS10-ST, ZS10-ST-1, ZS10-ST-T4, ZS10-PE-R1 to the requirements of CAN/CSA-C22.2 No. 158-10.
2456813	2011-09-30	CSA Certification of terminal block models ZS6-S, ZS6-D1-PE, ZS6-D2-PE, ZS10-S and ZS10-SP to the requirements of CSA Standard C22.2 No. 158-10.
2329965	2010-09-17	CSA Certification of terminal blocks Series ZS to the requirements of CSA Standard C22.2 No. 158-10.



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2331011 2010-09-08 CSA Certification of terminal block models ZS4 and ZS70 to the requirements of CSA Standard C22.2 No. 158-10.