

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20151029-E60645  
**Report Reference** E60645-20090919  
**Issue Date** 2015-OCTOBER-29

**Issued to:** ABB France  
Activite Raccordement  
3 Rue Jean Perrin  
CS90009  
69687 Chassieu Cedex France

**This is to certify that** COMPONENT - TERMINAL BLOCKS  
**representative samples of** See Addendum Page

Have been investigated by UL in accordance with the  
Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** UL1059 and CAN/CSA C22.2 No. 158-10, Terminal Blocks  
**Additional Information:** See the UL Online Certifications Directory at  
[www.ul.com/database](http://www.ul.com/database) for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's  
Certification and Follow-Up Service.

Recognized components are incomplete in certain constructional features or restricted in performance  
capabilities and are intended for use as components of complete equipment submitted for investigation rather  
than for direct separate installation in the field. The final acceptance of the component is dependent upon its  
installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Assistant Chief Engineer, Global Inspection and Field Services

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This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

USR and CNR Recognized Component - Terminal Blocks Series ZS, Cat. Nos. ZS followed by 4, 6, 10, 16 or 70, may be followed by -PE, -SF, -SF-T2, -SF1, -SF1-T2, -S, -S-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, -D1, -D2 or blank, followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank.

USR and CNR Recognized Component - Terminal Blocks Series ZS, Cat. Nos. ZS followed by 4, followed by D-CH-UD or D-CH-DU, followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank.

USR and CNR Recognized Component - Terminal Blocks Series ZS, Cat. No. ZS95-PE.

USR - Terminal Blocks Series ZS, Cat. Nos. ZS6-S, ZS10-S, ZS10-SP, ZS35, ZS35-PE and ZS95, followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank.

USR – Terminal Blocks Series ZS6, Cat. Nos. ZS6-D1-PE and ZS6-D2-PE.

USR Recognized Component - Terminal Blocks Series ZS, Cat. Nos. ZS followed by 10 followed by -ST, -ST-1, -ST-T4, -PE-R1, -R1, followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank.

USR Recognized Component – Terminal blocks Series ZS, Cat. Nos. ZS followed by 10 followed by –SF, -SF-R1, SF-R3, S-R2, followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank.



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# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20140110 - E60645  
**Report Reference** E60645 - 20121221  
**Issue Date** 2014-JANUARY-10

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

USR Recognized Component - Terminal Blocks, Series ZS:

Cat. No(s). ZS followed by 4 may be followed by -D2-S-T2, -D2-S, -T3, -T3-R1, -D2-SF1, -D2-SF1-R1, -D2-SF1-R3, followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank.

Cat. No(s). ZS followed by 6 may be followed by -3S, -4S, -S-4S-T2, followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank.

USR, CNR Recognized Component - Terminal Blocks, Series ZS: Cat. No(s). ZS4-R2, ZS25, followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank.

USR, CNR Recognized Component – Protective Conductor Terminal Blocks, Series ZS: Cat. No(s). ZS4-PE-R2, ZS25-PE.

USR Recognized Component - Protective Conductor Terminal Blocks, Series ZS: Cat. No(s). ZS6-3S-PE, ZS6-4S-PE.



William R. Carney, Director, North American Certification Programs

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| Cat.No.                                    | 1 conductor<br>Wire Range<br>AWG | 2 conductors<br>Wire Range<br>AWG | Wire<br>Type, Cu<br>+ | FW | Torque<br>Nm | Voltage V | 1 conductor<br>Current A | 2 conductors<br>Current A | UG    | CA       |
|--------------------------------------------|----------------------------------|-----------------------------------|-----------------------|----|--------------|-----------|--------------------------|---------------------------|-------|----------|
| ZS4                                        | 24-12                            | 24-16                             | SOL/STR               | 2  | 0.5-0.7      | 600       | 20                       | 20                        | B,C   | 2(105),4 |
| ZS6                                        | 24-10                            | 24-14                             | SOL/STR               | 2  | 0.7-1.0      | 600       | 30                       | 30                        | B,C   | 2(105),4 |
| ZS10                                       | 24-6                             | 20-12                             | SOL/STR               | 2  | 1.0-1.6      | 600       | 42                       | 40                        | B,C   | 2(105),4 |
| ZS10-SF, ZS10-SF-R1, ZS10-SF-R3, ZS10-S-R2 | 24-6                             | 20-12                             | SOL/STR               | 2  | 1.0-1.6      | 600 (2)   | 22                       | 22                        | B,C   | 2(105),4 |
| ZS16                                       | 24-4                             | 20-10                             | SOL/STR               | 2  | 1.6-2.4      | 600       | 67                       | 60                        | B,C   | 2(105),4 |
| ZS35                                       | 10-1/0                           | 10-6                              | SOL/STR               | 2  | 2.8-3.0      | 600       | 150                      | 130                       | B,C   | 2(105),4 |
| ZS4-PE                                     | 24-12                            | N/A                               | SOL/STR               | 2  | 0.5-0.7      | -         | -                        | -                         | B,C   | 2(105),4 |
| ZS6-PE                                     | 24-10                            | N/A                               | SOL/STR               | 2  | 0.7-1.0      | -         | -                        | -                         | B,C   | 2(105),4 |
| ZS10-PE                                    | 24-6                             | N/A                               | SOL/STR               | 2  | 1.0-1.6      | -         | -                        | -                         | B,C   | 2(105),4 |
| ZS16-PE                                    | 24-4                             | N/A                               | SOL/STR               | 2  | 1.6-2.4      | -         | -                        | -                         | B,C   | 2(105),4 |
| ZS35-PE                                    | 10-2                             | N/A                               | SOL/STR               | 2  | 2.8          | -         | -                        | -                         | B,C   | 2(105),4 |
| ZS4-SF                                     | 24-10                            | 24-16                             | SOL/STR               | 2  | 0.5-0.7      | 150       | 10                       | 10                        | A,B,C | 2(105),4 |
|                                            |                                  |                                   |                       |    |              | 300       | 10                       | 10                        | D     |          |
| ZS4-SF-R1, ZS4-SF-R2                       | 24-10                            | 24-16                             | SOL/STR               | 2  | 0.5-0.7      | 150 (1)   | 10                       | 10                        | A,B,C | 2(105),4 |
|                                            |                                  |                                   |                       |    |              | 300 (1)   | 10                       | 10                        | D     |          |
| ZS4-SF-R3, ZS4-SF-R4                       | 24-10                            | 24-16                             | SOL/STR               | 2  | 0.5-0.7      | 150       | 10                       | 10                        | A,B,C | 2(105),4 |
|                                            |                                  |                                   |                       |    |              | 300       | 10                       | 10                        | D     |          |
| ZS4-SF-T2                                  | 24-10                            | 24-16                             | SOL/STR               | 2  | 0.5-0.7      | 150       | 10                       | 10                        | A,B,C | 2(105),4 |
|                                            |                                  |                                   |                       |    |              | 300       | 10                       | 10                        | D     |          |
| ZS4-SF1                                    | 24-10                            | 24-16                             | SOL/STR               | 2  | 0.5-0.7      | 300       | 10                       | 10                        | B,C   | 2(105),4 |
|                                            |                                  |                                   |                       |    |              | 600       | 5                        | 5                         | D     |          |
| ZS4-SF1-R1, ZS4-SF1-R2                     | 24-10                            | 24-16                             | SOL/STR               | 2  | 0.5-0.7      | 300 (1)   | 10                       | 10                        | B,C   | 2(105),4 |
|                                            |                                  |                                   |                       |    |              | 600 (1)   | 5                        | 5                         | D     |          |
| ZS4-SF1-R3, ZS4-SF1-R4                     | 24-10                            | 24-16                             | SOL/STR               | 2  | 0.5-0.7      | 300       | 10                       | 10                        | B,C   | 2(105),4 |
|                                            |                                  |                                   |                       |    |              | 600       | 5                        | 5                         | D     |          |

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| Cat.No.       | 1 conductor<br>Wire Range<br>AWG | 2 conductors<br>Wire Range<br>AWG | Wire<br>Type, Cu<br>+ | FW | Torque<br>Nm | Voltage V | 1 conductor<br>Current A | 2 conductors<br>Current A | UG    | CA       |
|---------------|----------------------------------|-----------------------------------|-----------------------|----|--------------|-----------|--------------------------|---------------------------|-------|----------|
| ZS4-SF1-T2    | 24-10                            | 24-16                             | SOL/STR               | 2  | 0.5-0.7      | 300       | 10                       | 10                        | B,C,D | 2(105),4 |
|               |                                  |                                   |                       |    |              | 600       | 5                        | 5                         | D     |          |
| ZS4-S         | 24-10                            | 24-16                             | SOL/STR               | 2  | 0.5-0.7      | 150       | 25                       | 20                        | B,C   | 2(105),4 |
|               |                                  |                                   |                       |    |              | 300       | 10                       | 10                        | D     |          |
| ZS6-S         | 24-10                            | 24-14                             | SOL/STR               | 2  | 0.7-1.0      | 300       | 25                       | 25                        | B,C   | 2(105),4 |
|               |                                  |                                   |                       |    |              | 600       | 5                        | 5                         | D     |          |
| ZS10-S        | 24-6                             | 20-12                             | SOL/STR               | 2  | 1.0-1.6      | 300       | 25                       | 25                        | B,C   | 2(105),4 |
|               |                                  |                                   |                       |    |              | 600       | 5                        | 5                         | D     |          |
| ZS4-SP        | 24-10                            | 24-16                             | SOL/STR               | 2  | 0.5-0.7      | 150       | 18                       | 18                        | B,C   | 2(105),4 |
|               |                                  |                                   |                       |    |              | 300       | 10                       | 10                        | D     |          |
| ZS10-SP       | 24-6                             | 20-12                             | SOL/STR               | 2  | 1.0-1.6      | 300       | 18                       | 18                        | B,C   | 2(105),4 |
|               |                                  |                                   |                       |    |              | 600       | 5                        | 5                         | D     |          |
| ZS4-SP-T2     | 24-10                            | 24-16                             | SOL/STR               | 2  | 0.5-0.7      | 150       | 18                       | 18                        | B,C   | 2(105),4 |
|               |                                  |                                   |                       |    |              | 300       | 10                       | 10                        | D     |          |
| ZS4-R1        | 24-10                            | 24-16                             | SOL/STR               | 2  | 0.5-0.7      | 300       | 26                       | 20                        | B,C   | 2(105),4 |
| ZS4-S-R1      | 24-10                            | 24-16                             | SOL/STR               | 2  | 0.5-0.7      | 150       | 26                       | 20                        | B,C   | 2(105),4 |
|               |                                  |                                   |                       |    |              | 300       | 10                       | 10                        | D     |          |
| ZS4-S-T2-R1   | 24-10                            | 24-16                             | SOL/STR               | 2  | 0.5-0.7      | 150       | 26                       | 20                        | B,C   | 2(105),4 |
|               |                                  |                                   |                       |    |              | 300       | 10                       | 10                        | D     |          |
| ZS4-S-T2.3-R1 | 24-10                            | 24-16                             | SOL/STR               | 2  | 0.5-0.7      | 150       | 26                       | 20                        | B,C   | 2(105),4 |
|               |                                  |                                   |                       |    |              | 300       | 10                       | 10                        | D     |          |
| ZS4-SP-R1     | 24-10                            | 24-16                             | SOL/STR               | 2  | 0.5-0.7      | 150       | 20                       | 20                        | B,C   | 2(105),4 |
|               |                                  |                                   |                       |    |              | 300       | 10                       | 10                        | D     |          |
| ZS4-SP-T2-R1  | 24-10                            | 24-16                             | SOL/STR               | 2  | 0.5-0.7      | 150       | 20                       | 20                        | B,C   | 2(105),4 |
|               |                                  |                                   |                       |    |              | 300       | 10                       | 10                        | D     |          |
| ZS4-S-R2      | 24-10                            | 24-16                             | SOL/STR               | 2  | 0.5-0.7      | 150       | 13                       | 13                        | A,B,C | 2(105),4 |
|               |                                  |                                   |                       |    |              | 300       | 10                       | 10                        | D     |          |
| ZS4-S-R3      | 24-10                            | 24-16                             | SOL/STR               | 2  | 0.5-0.7      | 300       | 18                       | 18                        | B,C   | 2(105),4 |

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| Cat.No.                                 | 1 conductor<br>Wire Range<br>AWG | 2 conductors<br>Wire Range<br>AWG | Wire<br>Type, Cu<br>+ | FW | Torque<br>Nm | Voltage V | 1 conductor<br>Current A | 2 conductors<br>Current A | UG  | CA       |
|-----------------------------------------|----------------------------------|-----------------------------------|-----------------------|----|--------------|-----------|--------------------------|---------------------------|-----|----------|
| ZS4-D1, <b>ZS4-D-CH-UD, ZS4-D-CH-DU</b> | 24-12                            | 24-16                             | SOL/STR               | 2  | 0.5-0.7      | 300       | 20                       | 20                        | B,C | 2(105),4 |
|                                         |                                  |                                   |                       |    |              | 600       | 5                        | 5                         | D   |          |
| ZS4-D2                                  | 24-12                            | 24-16                             | SOL/STR               | 2  | 0.5-0.7      | 300       | 20                       | 20                        | B,C | 2(105),4 |
|                                         |                                  |                                   |                       |    |              | 600       | 5                        | 5                         | D   |          |
| ZS6-D1                                  | 24-10                            | 24-14                             | SOL/STR               | 2  | 0.7-1.0      | 300       | 30                       | 30                        | B,C | 2(105),4 |
|                                         |                                  |                                   |                       |    |              | 600       | 5                        | 5                         | D   |          |
| ZS6-D2                                  | 24-10                            | 24-14                             | SOL/STR               | 2  | 0.7-1.0      | 300       | 30                       | 30                        | B,C | 2(105),4 |
|                                         |                                  |                                   |                       |    |              | 600       | 5                        | 5                         | D   |          |
| ZS6-D1-PE                               | 24-10                            | N/A                               | SOL/STR               | 2  | 0.7-1.0      | -         | -                        | -                         | B,C | 2(105),4 |
| ZS6-D2-PE<br>(Upper terminal)           | 24-10                            | 24-14                             | SOL/STR               | 2  | 0.7-1.0      | 300       | 30                       | 30                        | B,C | 2(105),4 |
|                                         |                                  |                                   |                       |    |              | 600       | 5                        | 5                         | D   |          |
| ZS6-D2-PE<br>(Lower terminal)           | 24-10                            | N/A                               | SOL/STR               | 2  | 0.7-1.0      | -         | -                        | -                         | B,C | 2(105),4 |
| ZS70                                    | 4-2/0                            | 4-2                               | STR                   | 2  | 6.0-7.0      | 600       | 159                      | 159                       | B,C | 2(105),4 |
|                                         |                                  |                                   |                       |    |              | 1000      |                          |                           | E   | 2(105),4 |
| ZS70-PE                                 | 4-2/0                            | N/A                               | STR                   | 2  | 6.0-7.0      | -         | -                        | -                         | B,C | 2(105),4 |
| ZS95                                    | 2-4/0                            | 4-2                               | STR                   | 2  | 9.0-9.5      | 600       | 230                      | 230                       | B,C | 2(105),4 |
|                                         |                                  |                                   |                       |    |              | 1000      |                          |                           | E   | 2(105),4 |
| ZS95-PE                                 | 2-4/0                            | N/A                               | STR                   | 2  | 9.0-9.5      | -         | -                        | -                         | B,C | 2(105),4 |

Note + - max SOL wire is 10AWG.

Note ++ - 2 conductors may only be combined with the same size. For example 20AWG can only be combined with 20AWG. Each conductor can flow maximum current appropriate with this size.

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Note 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.

(1) – 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.

(2) – Model ZS10-SF-R1 will be used under 110V maximum because electronic element is 24-110V rated and Model ZS10-SF-R3 will be used under 250V maximum because electronic element is 115-250V rated.

(3) - Models ZS10-ST, ZS10-ST-1, ZS10-ST-T4 and ZS10-R1 are rated 600 V when provided with spacer Cat. No. ES10-ST.

The terminal blocks tabulated below have optional single-phase short circuit current ratings. The Terminal Blocks must be protected by the max ampere and Class of overcurrent protective device noted below.

| Cat. No. | Wire Range<br>kcmil/AWG<br>Line<br>Load | Overcurrent Protection Fuse Required<br>Class/Max Amp Rating |     |     |     |    |    | Torque<br>Nm | SCCR,<br>RMS<br>Sym A<br><br>(single phase<br>only) | Volts<br>Max<br>ac |
|----------|-----------------------------------------|--------------------------------------------------------------|-----|-----|-----|----|----|--------------|-----------------------------------------------------|--------------------|
|          |                                         | J                                                            | T   | RK1 | RK5 | G  | CC |              |                                                     |                    |
| ZS4      | 14 – 12 STR                             | 50                                                           | 50  | -   | -   | 50 | 30 | 0.5 – 0.7    | 100000                                              | 600                |
| ZS6      | 14 – 10 STR                             | 110                                                          | 110 | 100 | 30  | 60 | 30 | 0.7 – 1.0    | 100000                                              | 600                |
| ZS10     | 14 – 6 STR                              | 110                                                          | 110 | 100 | 30  | 60 | 30 | 1.0 - 1.6    | 100000                                              | 600                |
| ZS16     | 14 – 4 STR                              | 150                                                          | 150 | 100 | 30  | 60 | 30 | 1.6 – 2.4    | 100000                                              | 600                |
| ZS35     | 10 – 1/0 STR                            | 250                                                          | 250 | 200 | 100 | 60 | 30 | 2.8 – 3.0    | 100000                                              | 600                |
| ZS70     | 4 – 2/0 STR                             | 250                                                          | 250 | 200 | 100 | 60 | 30 | 6.0 – 7.0    | 100000                                              | 600                |
| ZS95     | 2 – 4/0 STR                             | 350                                                          | 350 | 200 | 100 | 60 | 30 | 9.0 – 9.5    | 100000                                              | 600                |
| ZS4-D2   | 14 – 12 STR                             | 50                                                           | 50  | -   | -   | 50 | 30 | 0.5 – 0.7    | 100000                                              | 600                |
| ZS6-D2   | 14 – 10 STR                             | 110                                                          | 110 | 100 | 30  | 60 | 30 | 0.7 – 1.0    | 100000                                              | 600                |

For SCCR ratings, enclosure size employed for tests is 80 x 130 x 100 mm for Cat. Nos. ZS4, ZS6, ZS10, ZS16 and ZS35 and 80 x 130 x 125 mm for Cat. Nos. ZS70, ZS95, ZS4-D2 and ZS6-D2.

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## RATINGS;

| Cat.No.       | 1<br>conducto<br>r Wire<br>Range<br>AWG | 2<br>conducto<br>rs Wire<br>Range<br>AWG | Wire<br>Type, Cu<br>(1) | F<br>W | Torque<br>Nm | Voltage<br>V | 1<br>conducto<br>r Current<br>A | 2<br>conducto<br>rs Current<br>A | UG  | CA       |
|---------------|-----------------------------------------|------------------------------------------|-------------------------|--------|--------------|--------------|---------------------------------|----------------------------------|-----|----------|
| ZS4-D2-S-T2   | 24-10                                   | 24-16                                    | SOL/ST<br>R             | 2      | 0.5-0.7      | 300          | 27                              | 20                               | B,C | 2(105),4 |
|               |                                         |                                          |                         |        |              | 600          | 5                               | 5                                | D#  |          |
| ZS4-D2-S      | 24-10                                   | 24-16                                    | SOL/ST<br>R             | 2      | 0.5-0.7      | 300          | 27                              | 20                               | B,C | 2(105),4 |
|               |                                         |                                          |                         |        |              | 600          | 5                               | 5                                | D#  |          |
| ZS4-T3        | 24-12                                   | 24-16                                    | SOL/ST<br>R             | 2      | 0.5-0.7      | 300          | 20                              | 20                               | B,C | 2(105),4 |
|               |                                         |                                          |                         |        |              | 600          | 5                               | 5                                | D#  |          |
| ZS4-T3-R1     | 24-10                                   | 24-16                                    | SOL/ST<br>R             | 2      | 0.5-0.7      | 300          | 30                              | 20                               | B,C | 2(105),4 |
|               |                                         |                                          |                         |        |              | 600          | 5                               | 5                                | D#  |          |
| ZS4-R2        | 24-10                                   | 24-16                                    | SOL/ST<br>R             | 2      | 0.5-0.7      | 300          | 30                              | 20                               | B,C | 2(105),4 |
|               |                                         |                                          |                         |        |              | 600          | 5                               | 5                                | D#  |          |
| ZS4-PE-R2     | 24-10                                   | 24-16                                    | SOL/ST<br>R             | 2      | 0.5-0.7      | N/A          | N/A                             | N/A                              | B,C | 2(105),4 |
| ZS4-D2-SF1    | 24-10                                   | 24-16                                    | SOL/ST<br>R             | 2      | 0.5-0.7      | 300          | 12/30(3)                        | 12/20(3)                         | B,C | 2(105),4 |
|               |                                         |                                          |                         |        |              | 600          | 5                               | 5                                | D#  |          |
| ZS4-D2-SF1-R1 | 24-10                                   | 24-16                                    | SOL/ST<br>R             | 2      | 0.5-0.7      | 300          | 12/30(3,4)                      | 12/20(3,4)                       | B,C | 2(105),4 |
|               |                                         |                                          |                         |        |              | 600          | 5                               | 5                                | D#  |          |
| ZS4-D2-SF1-R3 | 24-10                                   | 24-16                                    | SOL/ST<br>R             | 2      | 0.5-0.7      | 300          | 12/30(3,4)                      | 12/20(3,4)                       | B,C | 2(105),4 |
|               |                                         |                                          |                         |        |              | 600          | 5                               | 5                                | D#  |          |
| ZS6-3S        | 24-10                                   | 24-14                                    | SOL/ST<br>R             | 2      | 0.7-1.0      | 600          | 30                              | 20                               | B,C | 2(105),4 |
| ZS6-4S        | 24-10                                   | 24-14                                    | SOL/ST<br>R             | 2      | 0.7-1.0      | 600          | 30                              | 20                               | B,C | 2(105),4 |
| ZS6-S-4S-T2   | 24-10                                   | 24-14                                    | SOL/ST<br>R             | 2      | 0.7-1.0      | 300          | 28                              | 20                               | B,C | 2(105),4 |
|               |                                         |                                          |                         |        |              | 600          | 5                               | 5                                | D#  |          |
| ZS6-3S-PE     | 24-10                                   | 24-14                                    | SOL/ST<br>R             | 2      | 0.7-1.0      | N/A          | N/A                             | N/A                              | B,C | 2(105),4 |
| ZS6-4S-PE     | 24-10                                   | 24-14                                    | SOL/ST<br>R             | 2      | 0.7-1.0      | N/A          | N/A                             | N/A                              | B,C | 2(105),4 |

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# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20140110 - E60645  
**Report Reference** E60645 - 20121221  
**Issue Date** 2014-JANUARY-10

## RATINGS (Cont.)

| Cat.No. | 1 conductor Wire Range AWG | 2 conductors Wire Range AWG | Wire Type, Cu (1) | F W | Torque Nm | Voltage V | 1 conductor Current A | 2 conductors Current A | UG  | CA       |
|---------|----------------------------|-----------------------------|-------------------|-----|-----------|-----------|-----------------------|------------------------|-----|----------|
| ZS25    | 24-3                       | 20-10                       | SOL/STR           | 2   | 1.6-2.0   | 600       | 100                   | 60                     | B,C | 2(105),4 |
| ZS25-PE | 24-3                       | 20-10                       | SOL/STR           | 2   | 1.6-2.0   | N/A       | N/A                   | N/A                    | B,C | 2(105),4 |

Note 1 - max SOL wire is 10AWG.

Note 2 - 2 conductors may only be combined with the same size. For example 20AWG can only be combined with 20AWG. Each conductor can flow maximum current appropriate with this size.

Note # - 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.

Note 3 – The following terminal blocks, Cat. No(s): ZS4-D2-SF1, ZS4-D2-SF1-R1 and ZS4-D2-SF1-R3 have two current ratings. Upper Level current rating for one conductor is 12A. Upper Level current rating for two conductors is 12A. Lower Level current rating for one conductor is 30A. Lower Level current rating for two conductors is 20A.

Note 4. Model No. ZS4-D2-SF1-R1 will be used under 110V maximum because electronic element is 24-110V rated and Model No ZS4-D2-SF1-R3 will be used under 250V maximum because electronic element is 115-250V rated.

The terminal blocks tabulated below have optional single-phase short circuit current ratings. The Terminal Blocks must be protected by the max ampere and Class of overcurrent protective device noted below.

| Cat. No. | Wire Range kcmil/AWG Line, Load | Overcurrent Protection Fuse Required Class/Max Amp Rating |     |     |     |    |    | Torque [Nm] | SCCR, RMS Sym A (single phase only) | Volts Max AC |
|----------|---------------------------------|-----------------------------------------------------------|-----|-----|-----|----|----|-------------|-------------------------------------|--------------|
|          |                                 | RK1                                                       | RK5 | J   | T   | G  | CC |             |                                     |              |
| ZS6-3S   | 10 AWG STR/SOL                  | 100                                                       | 60  | 175 | 175 | 60 | 30 | 0.7 – 1.0   | 100000                              | 600          |
| ZS6-4S   | 10 AWG STR/SOL                  | 100                                                       | 60  | 175 | 175 | 60 | 30 | 0.7 – 1.0   | 100000                              | 600          |
| ZS25     | 10-3 AWG STR                    | 200                                                       | 100 | 250 | 250 | 60 | 30 | 1.6 - 2.0   | 100000                              | 600          |
|          | 10AWG SOL                       |                                                           |     |     |     |    |    |             |                                     |              |

For SCCR ratings, enclosure size employed for tests is 80 x 130 x 100 mm for Cat. Nos. ZS6-3S, ZS6-4S and ZS25.

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