



# Certificate of Compliance

**Certificate:** 70041177

**Master Contract:** 161378

**Project:** 80024380

**Date Issued:** 2019-12-19

**Issued To:** Tyco Electronics France S.A.S.  
Activite Raccordement  
3 Rue Jean Perrin  
Chassieu, ., 69680  
France

**Attention:** Laurence Pionchon

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

**Issued by:** *Khalil Ouldchama*  
Khalil Ouldchama, Eng.



## **PRODUCTS**

CLASS - C622801 - WIRE CONNECTING DEVICES Terminal Assemblies

Models DBL80, DBL125, DBL125-3, DBL160, DBL175, DBL175-C, DBL175-C-3, DBL250, DBL400, DBL250-F, DBL400-PV, DBL500-22 and DBL500-F followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank.

## **Electrical Ratings:**

| Model | Wire Range AWG/kcmil                 | Wire Type, Cu <sup>(1)</sup> | Torque (N·m) | Current (A) | Voltage (V)  | Group Designation <sup>(5)</sup> |
|-------|--------------------------------------|------------------------------|--------------|-------------|--------------|----------------------------------|
| DBL80 | Input:<br>14-4AWG                    | SOL/STR                      | 1.5-2        | 80          | 600;<br>1000 | B, C; E                          |
|       | Output 1:<br>2 terminals x (14-4AWG) |                              | 1.5-2        |             |              |                                  |
|       | Output 2:<br>4 terminals x (14-0AWG) |                              | 0.8-1.2      |             |              |                                  |



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| Model<br>(continued)    | Wire Range AWG/kcmil                | Wire Type,<br>Cu <sup>(1)</sup> | Torque<br>(N·m) | Current<br>(A) | Voltage<br>(V) | Group<br>Designation<br><sup>(5)</sup> |
|-------------------------|-------------------------------------|---------------------------------|-----------------|----------------|----------------|----------------------------------------|
| DBL125                  | Input 1:<br>8-2AWG                  | SOL/STR                         | 3.5-5           | 115            | 600;<br>1000   | B, C; E                                |
|                         | Input 2:<br>10-6AWG                 |                                 | 2-3             |                |                |                                        |
|                         | Output:<br>6 terminals x(14-6AWG)   |                                 | 2-3             |                |                |                                        |
| DBL125-3                | Input 1: 8-2AWG                     | SOL/STR                         | 3.5-5           | 115            | 600;<br>1000   | B, C; E                                |
|                         | Input 2: 10-6AWG                    |                                 | 2-3             |                |                |                                        |
|                         | Output:<br>6 terminals x(6-14AWG)   |                                 | 2-3             |                |                |                                        |
| DBL160                  | Input 1:<br>6-2/0AWG                | SOL/STR                         | 6-10            | 160            | 600;<br>1000   | B, C; E                                |
|                         | Input 2:<br>10-6AWG                 |                                 | 2-3             |                |                |                                        |
|                         | Output:<br>6 terminals x(14-6AWG)   |                                 | 2-3             |                |                |                                        |
| DBL175                  | Input:<br>2 terminals x(6-2/0AWG)   | STR                             | 6-10            | 175/350        | 600;<br>1000   | B, C; E                                |
|                         | Output:<br>10 terminals x(14-6AWG)  | SOL/STR                         | 2-3             |                |                |                                        |
| DBL175-C,<br>DBL175-C-3 | Input 1: 6-2/0AWG                   | SOL/STR                         | 6-10            | 175            | 600;<br>1000   | B, C; E                                |
|                         | Input 2: 10-6AWG                    |                                 | 2-3             |                |                |                                        |
|                         | Output:<br>6 terminals x(6-14AWG)   |                                 | 2-3             |                |                |                                        |
| DBL250                  | Input:<br>2AWG-250kcmil             | STR                             | 19-21           | 255            | 600;<br>1000   | B, C, E                                |
|                         | Output 1:<br>2 terminals x(14-2AWG) | SOL/STR                         | 3.5-5           |                |                |                                        |
|                         | Output 2:<br>5 terminals x(14-6AWG) |                                 | 2-3             |                |                |                                        |
|                         | Output 3:<br>4 terminals x(14-8AWG) |                                 | 2-3             |                |                |                                        |
| DBL400                  | Input:<br>3/0AWG-400kcmil           | STR                             | 25              | 335            | 600;<br>1000   | B, C; E                                |
|                         | Output 1:<br>2 terminals x(14-2AWG) | SOL/STR                         | 3.5-5           |                |                |                                        |



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| Model<br>(continued) | Wire Range AWG/kcmil                                                                                                                                                                                                     | Wire Type,<br>Cu <sup>(1)</sup> | Torque<br>(N·m) | Current<br>(A)         | Voltage<br>(V) | Group<br>Designation<br><sup>(5)</sup> |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------|------------------------|----------------|----------------------------------------|
|                      | Output 2:<br>5 terminals x(14-6AWG)                                                                                                                                                                                      |                                 | 2-3             |                        |                |                                        |
|                      | Output 3:<br>4 terminals x(14-8AWG)                                                                                                                                                                                      |                                 | 2-3             |                        |                |                                        |
| DBL250-F             | Input: Bus Bar or Flexible Bar:<br>from (3x9.0 x0.8) mm up to (6x15.5x0.8) mm and rigid, copper bus bar, size: (12.0 x4.0) mm                                                                                            | SOL/STR                         | 13.5            | 250                    | 600;<br>1000   | B, C; E                                |
|                      | Output:<br>6 terminals x(14-6AWG) <sup>(2)</sup>                                                                                                                                                                         |                                 | 2-3             |                        |                |                                        |
| DBL400-PV            | Input:<br>2 terminals x(4AWG-250kcmil)                                                                                                                                                                                   | SOL/STR                         | 19-21           | 255/400 <sup>(3)</sup> | 600;<br>1000   | B, C; E                                |
|                      | 2 terminals x(8-6AWG)                                                                                                                                                                                                    |                                 | 10              |                        |                |                                        |
|                      | Output:<br>12 terminals x(14-6AWG)                                                                                                                                                                                       |                                 | 2-3             |                        |                |                                        |
| DBL500-22            | Input:<br>2 terminals x(4AWG-250kcmil)                                                                                                                                                                                   | SOL/STR                         | 19-21           | 255/510 <sup>(4)</sup> | 600;<br>1000   | B, C; E                                |
|                      | 2 terminals x(8-6AWG)                                                                                                                                                                                                    |                                 | 10              |                        |                |                                        |
|                      | Output:<br>2 terminals x(4AWG-250kcmil)                                                                                                                                                                                  |                                 | 19-21           |                        |                |                                        |
|                      | 2 terminals x(8-6AWG)                                                                                                                                                                                                    |                                 | 10              |                        |                |                                        |
| DBL500-F             | Input <sup>(6)</sup> : Bus Bar terminals for solid ranging from 12 by 4 mm up to 2 by 25 by 5 mm (2 bus bars, dimension 25 by 5 mm);<br>Or Flexible Terminals Bar for flexible ranging from 4 by 15.5 by 0.8 mm (1 piece | SOL/STR                         | 13.5            | 420                    | 600;<br>1000   | B, C;<br>E                             |



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| Model<br>(continued) | Wire Range AWG/kcmil                                                                              | Wire Type,<br>Cu <sup>(1)</sup> | Torque<br>(N·m) | Current<br>(A) | Voltage<br>(V) | Group<br>Designation<br><sup>(5)</sup> |
|----------------------|---------------------------------------------------------------------------------------------------|---------------------------------|-----------------|----------------|----------------|----------------------------------------|
|                      | included 4 layers 15.5 by 0.8 mm up to (10 by 24 by 1 mm (1 piece included 10 layers 24 by 1 mm). |                                 |                 |                |                |                                        |
|                      | Output 1:<br>2 terminals x (14-2AWG)                                                              |                                 | 3.5-5           |                |                |                                        |
|                      | Output 2:<br>5 terminals x (14-6AWG)                                                              |                                 | 2-3             |                |                |                                        |
|                      | Output 3:<br>4 terminals x (14-8AWG)                                                              |                                 | 2-3             |                |                |                                        |

**Notes:**

<sup>(1)</sup>: Maximum SOL wire is 10AWG.

<sup>(2)</sup>: The line side of the Cat. No. DBL250F is approved for Factory wiring only, the load side is for Field and Factory wiring.

<sup>(3)</sup>: Maximum current with one wire 250kcmil at the input side is 255A, and maximum current with two wires 250kcmil at the input side is 400A.

<sup>(4)</sup>: Maximum current with one wire 250kcmil at the input side is 255A, and maximum current with two wires 250kcmil at the input side is 510A.

<sup>(5)</sup>: Spacing specified for group designation, as per Table 1 of CSA-C22.2 No. 158.

<sup>(6)</sup>: The input side of the terminal block, Cat. No. DBL500-F is suitable for connection with flexible and solid copper bus bar, dimensions: for flexible ranging from 4 by 15.5 by 0.8 mm (1 piece included 4 layers 15.5 by 0.8 mm up to 10 by 24 by 1 mm (1 piece included 10 layers 24 by 1 mm; and for solid ranging from 12 by 4 mm up to 2 by 25 by 5 mm (1 piece included 2 layers 25 by 5 mm).

**Short Circuit Current Ratings:**

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.



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| Model              | Wire Range<br>kcmil/AWG<br>Line,<br>Load | Overcurrent Protection Fuse Required<br>Class/Max Amp Rating |     |     |     |    |    | Torque<br>(Nm) | SCCR,<br>RMS Sym A<br>(single phase<br>only) | Vac<br>Max |
|--------------------|------------------------------------------|--------------------------------------------------------------|-----|-----|-----|----|----|----------------|----------------------------------------------|------------|
|                    |                                          | RK1                                                          | RK5 | J   | T   | G  | CC |                |                                              |            |
| DBL80              | Input:<br>14-4AWG                        | 100                                                          | 30  | 110 | 175 | 60 | 30 | 1.5-2          | 100,000                                      | 600        |
|                    | Output 1:<br>2 terminals x(14-<br>4AWG)  |                                                              |     |     |     |    |    | 1.5-2          |                                              |            |
|                    | Output 2:<br>4 terminals x(14-<br>10AWG) |                                                              |     |     |     |    |    | 0.8-1.2        |                                              |            |
| DBL125             | Input 1: 8-2AWG                          | 200                                                          | 100 | 250 | 300 | 60 | 30 | 3.5-5          | 100,000                                      | 600        |
|                    | Input 2:<br>10-6AWG                      |                                                              |     |     |     |    |    | 2-3            |                                              |            |
|                    | Output:<br>6 terminals x(14-<br>6AWG)    |                                                              |     |     |     |    |    | 2-3            |                                              |            |
| DBL160<br>DBL175-C | Input 1:<br>8-2/0AWG                     | 200                                                          | 100 | 250 | 300 | 60 | 30 | 6-10           | 100,000                                      | 600        |
|                    | Input 2:<br>10-6AWG                      |                                                              |     |     |     |    |    | 2-3            |                                              |            |
|                    | Output:<br>6 terminals x(14-<br>6AWG)    |                                                              |     |     |     |    |    | 2-3            |                                              |            |
| DBL175             | Input:<br>2x(6-2/0AWG)                   | 400                                                          | 200 | 600 | 450 | 60 | 30 | 6-10           | 100,000                                      | 600        |
|                    | Output:<br>10 terminals (10-<br>6AWG)    |                                                              |     |     |     |    |    | 2-3            |                                              |            |
| DBL250             | Input:<br>2AWG-250kcmil                  | 400                                                          | 200 | 600 | 450 | 60 | 30 | 19-21          | 100,000                                      | 600        |
|                    | Output 1:<br>2 terminals x(10-<br>2AWG)  |                                                              |     |     |     |    |    | 3.5-5          |                                              |            |
|                    | Output 2:<br>5 terminals (10-<br>6AWG)   |                                                              |     |     |     |    |    | 2-3            |                                              |            |
|                    | Output 3:<br>4 terminals x(10-<br>8AWG)  |                                                              |     |     |     |    |    | 2-3            |                                              |            |



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| Model<br>(Continued) | Wire Range<br>kcmil/AWG<br>Line,<br>Load       | Overcurrent Protection Fuse Required<br>Class/Max Amp Rating |     |     |     |    |    | Torque<br>(Nm) | SCCR,<br>RMS Sym A<br>(single phase<br>only) | Vac<br>Max |
|----------------------|------------------------------------------------|--------------------------------------------------------------|-----|-----|-----|----|----|----------------|----------------------------------------------|------------|
|                      |                                                | RK1                                                          | RK5 | J   | T   | G  | CC |                |                                              |            |
| DBL400               | Input: 3/0AWG-<br>400kcmil                     | 400                                                          | 200 | 600 | 450 | 60 | 30 | 25             | 100,000                                      | 600        |
|                      | Output 1:<br>2 terminals x(14-<br>2AWG)        |                                                              |     |     |     |    |    | 3.5-5          |                                              |            |
|                      | Output 2:<br>5 terminals x(14-<br>6AWG)        |                                                              |     |     |     |    |    | 2-3            |                                              |            |
|                      | Output 3:<br>4 terminals x(14-<br>8AWG)        |                                                              |     |     |     |    |    | 2-3            |                                              |            |
| DBL250-F             | Input: Bus Bar or<br>Flexible Bar              | 600                                                          | 200 | 600 | 800 | 60 | 30 | 13.5           | 100,000                                      | 600        |
|                      | Output:<br>6 terminals<br>x (12-6) AWG         |                                                              |     |     |     |    |    | 2-3            |                                              |            |
| DBL400-PV            | Input:<br>2 terminals<br>x(6AWG-<br>250kcmil)  | 400                                                          | 200 | 600 | 700 | 60 | 30 | 19-21<br>10    | 100,000                                      | 600        |
|                      | Output:<br>12 terminals x<br>(12-6) AWG        |                                                              |     |     |     |    |    | 2-3            |                                              |            |
| DBL500-22            | Input:<br>2 terminals x<br>(6AWG-<br>250kcmil) | 400                                                          | 200 | 600 | 700 | 60 | 30 | 19-21<br>10    | 100,000                                      | 600        |
|                      | Output: 2<br>terminals<br>x(6AWG-<br>250kcmil) |                                                              |     |     |     |    |    | 19-21<br>10    |                                              |            |



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| Model<br>(Continued) | Wire Range<br>kcmil/AWG<br>Line,<br>Load | Overcurrent Protection Fuse Required<br>Class/Max Amp Rating |     |     |     |    |    | Torque<br>(Nm) | SCCR,<br>RMS Sym A<br>(single phase<br>only) | Vac<br>Max |
|----------------------|------------------------------------------|--------------------------------------------------------------|-----|-----|-----|----|----|----------------|----------------------------------------------|------------|
|                      |                                          | RK1                                                          | RK5 | J   | T   | G  | CC |                |                                              |            |
| DBL500-F             | Input: Bus Bar or Flexible Bar terminals | 400                                                          | 200 | 600 | 700 | 60 | 30 | 13.5           | 100,000                                      | 600        |
|                      | Output 1:<br>2 terminals x(14-2AWG)      |                                                              |     |     |     |    |    | 3.5-5          |                                              |            |
|                      | Output 2:<br>5 terminals x(14-6AWG)      |                                                              |     |     |     |    |    | 2-3            |                                              |            |
|                      | Output 3:<br>4 terminals x(14-8AWG)      |                                                              |     |     |     |    |    | 2-3            |                                              |            |

For SCCR ratings, enclosure size employed for tests is 80 x 130 x 100 mm for models DBL80, DBL125, DBL160, DBL175, DBL250, DBL250-F and enclosure size employed for tests is 80 x 160 x 85 mm for model DBL400, DBL400-PV, DBL500-F and DBL500-22.

The input side of the terminal block, Cat. No. DBL500-F is suitable for connection with flexible and solid copper bus bar, dimensions: for flexible ranging from 4 by 15.5 by 0.8 mm up to 10 by 24 by 1.0 mm; and for solid ranging from 12 by 4 mm up to 2 by 25 by 5 mm.

Notes:

1. The terminal blocks are certified as components for use in certified equipment where the acceptability of the combination is to be determined by CSA.
2. The catalogue numbers may be completed with suffixes indicating color of body.
3. The short circuit testing on Cat. Nos. DBL80, DBL125, DBL160, DBL175, DBL250, DBL400, DBL250-F, DBL400-PV, DBL500-22, DBL500-F has been conducted on a single-phase circuit. The three-phase short circuit application of the terminal blocks shall be evaluated in the end-use investigation.

**APPLICABLE REQUIREMENTS**

- CAN/CSA-C22.2 NO. 0-10 - General requirements - Canadian electrical code, part II
- CAN/CSA-C22.2 No. 158-10 - Terminal Blocks