

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20191016-E60645  
**Report Reference** E60645-20150723  
**Issue Date** 2019-OCTOBER-16

**Issued to:** Tyco Electronics France SAS  
3 rue Jean Perrin  
69680 CHASSIEU FRANCE

**This certificate confirms that  
representative samples of**

COMPONENT - TERMINAL BLOCKS  
See Addendum Page

Have been investigated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.


**Standard(s) for Safety:**  
**Additional Information:**

Terminal Blocks, UL1059  
See the UL Online Certifications Directory at  
<https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Recognized Component Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.



Bruce Mahrenholz, Director North American Certification Program  
UL LLC

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# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20191016-E60645  
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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.

Recognized Component – Power Distribution Type Terminal Blocks, Series DBL: Cat. No(s). DBL80, DBL125, DBL160, DBL175, DBL250, DBL400, DBL125-3, DBL175-C, DBL175-C-3, DBL250-F, DBL400-PV, DBL500-F and DBL500-22 followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank.



Bruce Mahrenholz, Director North American Certification Program

UL LLC

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## DESCRIPTION

## PRODUCT COVERED:

\*USR Recognized Component - Power Distribution Type Terminal Blocks, Series DBL: Cat. No(s). DBL80, DBL125, DBL160, DBL175, DBL250, DBL400, DBL125-3, DBL175-C, DBL175-C-3, DBL250-F, DBL400-PV, DBL500-F and DBL500-22 followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank.

## GENERAL CHARACTER AND USE:

The terminal blocks covered by this Report are intended for use in the following applications and within the ratings specified.

## RATINGS:

Application -

Commercial appliances (such as business and EDP equipment, etc.).

General industrial (such as motor controllers, pushbutton stations, etc.).

Industrial control devices having limited ratings (see note A under Ratings).

Terminal Blocks rated 601-1500V.

Terminal Type -

Front	Back
Pressure Wire Connector	Pressure Wire Connector

Type Wiring - Factory and Field wiring.

Cat. No.	Wire Range AWG/kcmil	Wire Type, Cu (1)	FW	Torque [N·m]	Current A	Voltage V	UG	CA
DBL80	Input: 14-4AWG	SOL/STR	2	1.5-2	80	600; 1000	B,C; E	2(105), 4
	Output 1: 2x(14-4AWG)			1.5-2				
	Output 2: 4x(14-10AWG)			0.8-1.2				
DBL125	Input 1: 8-2AWG	SOL/STR (2)	2	3.5-5	115	600; 1000	B,C; E	2(105), 4
	Input 2: 10-6AWG			2-3				
	Output: 6x(6-14AWG)			2-3				
DBL160	Input 1: 6-2/0AWG	SOL/STR (2)	2	6-10	160	600; 1000	B,C; E	2(105), 4
	Input 2: 10-6AWG			2-3				
	Output: 6x(6-14AWG)			2-3				
DBL175	Input: 2x(6-2/0AWG)	STR	2	6-10	175/350 (3)	600; 1000	B,C; E	2(105), 4
	Output: 10x(14-6AWG)	SOL/STR		2-3				
DBL250	Input: 2AWG-250kcmil	STR	2	19-21	255	600; 1000	B,C; E	2(105), 4
	Output 1: 2x(14-2AWG)	SOL/STR		3.5-5				
	Output 2: 5x(14-6AWG)			2-3				
	Output 3: 4x(14-8AWG)			2-3				
DBL400	Input: 3/0AWG-400kcmil	STR	2	25	335	600; 1000	B,C; E	2(105), 4
	Output 1: 2x(14-2AWG)	SOL/STR		3.5-5				
	Output 2: 5x(14-6AWG)			2-3				
	Output 3: 4x(14-8AWG)			2-3				

Note 1 - max SOL wire is 10AWG.

Note 2 - Model No(s): DBL125 and DBL160 are intended to be connected with jumper bar size 6AWG stranded wire.

Note 3 - Maximum current with one wire 2/0AWG at the input side is 175A, and maximum current with two wires 2/0AWG at the input side is 350A.

Continued:

Cat. No.	Wire Range AWG/kcmil	Wire Type, Cu (1)	FW	Torque [N·m]	Current A	Voltage V	UG	CA
*DBL125-3	Input 1: 8-2AWG	SOL/ STR	2	3.5-5	115	600; 1000	B,C; E	2(105), 4
	Input 2: 10-6AWG			2-3				
	Output: 6x(14-6AWG)			2-3				
*DBL175-C, DBL175-C-3	Input 1: 6-2/0AWG	SOL/ STR	2	6-10	175	600; 1000	B,C; E	2(105), 4
	Input 2: 10-6AWG			2-3				
	Output: 6x(14-6AWG)			2-3				
DBL250-F	Input: Bus Bar or Flexible Bar (2)	SOL/ STR	2(3)	13.5	250	600; 1000	B,C; E	2(105), 4
	Output: 6x(14-6AWG)			2-3				
DBL400-PV	Input: 2x(4AWG-250kcmil) 2x(8-6AWG)	SOL/ STR	2	19-21	255/40 0 (4)	600; 1000	B,C; E	2(105), 4
	Output: 12x(14-6AWG)			10 2-3				
DBL500-22	Input: 2x(4AWG-250kcmil) 2x(8-6AWG)	SOL/ STR	2	19-21	255/51 0 (5)	600; 1000	B,C; E	2(105), 4
	Output: 2x(4AWG-250kcmil) 2x(8-6AWG)			10 19-21				
				10				
DBL500-F	Input: Bus Bar or Flexible Bar (6)	SOL/ STR	2 (3)	13.5	420	600; 1000	B,C; E	2(105), 4
	Output 1: 2x(14-2AWG)			3.5-5				
	Output 2: 5x(14-6AWG)			2-3				
	Output 3: 4x(14-8AWG)			2-3				

Note 1 - max SOL wire is 10AWG.

Note 2 - The input side of the terminal block, Cat. No. DBL250-F is suitable for connection with copper bus bar, dimensions: ranging from 9.0 x 1.5 mm up to 15.5 x 7.2 mm.

Note 3 - The line side of the Cat. No(s). DBL250-F and DBL500-F is approved for Factory wiring only, the load side is for Field and Factory wiring.

Note 4 - 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.

Note 5 - 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.

Note 6 - 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 4x15.5x0.8mm (1 piece included 4 layers 15.5x0.8mm) up to 10x24.0x1.0mm (1 piece included 10 layers 24.0x1.0mm); and for solid ranging from 12.0x4.0mm up to 2x25.0x5.0mm (1 piece included 2 layers 25.0x5.0mm).

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			
DBL80	Input: 14-4AWG	100	30	110	175	60	30	1.5-2	100000	600
	Output 1: 2x(14-4AWG)							1.5-2		
	Output 2: 4x(14-10AWG)							0.8- 1.2		
DBL125	Input 1: 8- 2AWG	200	100	250	300	60	30	3.5-5	100000	600
	Input 2: 10- 6AWG							2-3		
	Output: 6x(6- 14AWG)							2-3		
DBL160, DBL175-C	Input 1: 8- 2/0AWG	200	100	250	300	60	30	6-10	100000	600
	Input 2: 10- 6AWG							2-3		
	Output: 6x(6- 14AWG)							2-3		
DBL175	Input: 2x(6- 2/0AWG)	400	200	600	450	60	30	6-10	100000	600
	Output: 10x(10- 6AWG)							2-3		
DBL250	Input: 2AWG- 250kcmil	400	200	600	450	60	30	19-21	100000	600
	Output 1: 2x(10-2AWG)							3.5-5		
	Output 2: 5x(10-6AWG)							2-3		
	Output 3: 4x(10-8AWG)							2-3		
DBL400	Input: 3/0AWG- 400kcmil	400	200	600	450	60	30	25	100000	600
	Output 1: 2x(14-2AWG)							3.5-5		
	Output 2: 5x(14-6AWG)							2-3		
	Output 3: 4x(14-8AWG)							2-3		

For SCCR ratings, enclosure size employed for tests is 80 x 130 x 100 mm for Cat. Nos. DBL80, DBL125, DBL160, DBL175, DBL250 and enclosure size employed for tests is 80 x 160 x 85 mm for Cat. Nos. DBL400.



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			
DBL250-F	Input: Bus Bar or Flexible Bar (1)	600	200	600	800	60	30	13.5	100000	600
	Output: 6x(12-6)AWG							2-3		
DBL400-PV	Input: 2x(6AWG- 250kcmil)	400	200	600	700	60	30	19-21	100000	600
	Output: 12x(12-6)AWG							10		
DBL500-22	Input: 2x(6AWG- 250kcmil)	400	200	600	700	60	30	19-21	100000	600
	Output: 2x(6AWG- 250kcmil)							10		
DBL500-F	Input: Bus Bar or Flexible Bar (3)	400	200	600	700	60	30	13.5	100000	600
	Output 1: 2x(14-2AWG)							3.5-5		
	Output 2: 5x(14-6AWG)							2-3		
	Output 3: 4x(14-8AWG)							2-3		

Note 1 - The input side of the terminal block, Cat. No. DBL250-F is suitable for connection with flexible, copper bus bar, dimensions: ranging from 3x9.0x0.8mm up to 6x15.5x0.8mm and rigid, copper bus bar, dimension: ranging 12x4.0mm.

Note 2 - For SCCR ratings, enclosure size employed for tests is 80 x 130 x 100 mm for Cat. Nos. DBL250-F and enclosure size employed for tests is 80 x 160 x 85 mm for Cat. Nos. DBL400-PV, DBL500-F and DBL500-22.

Note 3 - 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 4x15.5x0.8mm up to 10x24.0x1.0mm; and for solid ranging from 12.0x4.0mm up to 2x25.0x5.0mm.