CERTIFICATE OF COMPLIANCE

Certificate Number	20171201-E60645
Report Reference	E60645-20130524
Issue Date	2017-DECEMBER-01
Issued to:	ABB France Activite Raccordement 3 Rue Jean Perrin CS90009, 69687 Chassieu Cedex FRANCE
This is to certify that representative samples of	COMPONENT - TERMINAL BLOCKS See next page for models.
	Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.
Standard(s) for Safety:	UL1059, Terminal Blocks CAN/CSA C22.2 No. 158-10, Terminal Blocks
Additional Information:	See the UL Online Certifications Directory at 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.

The UL Recognized Component Mark generally consists of the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark: , may be used in conjunction with the required Recognized Marks. The Recognized Component Mark is required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual recognitions.

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, Director North American Certification Program

UL LLC

CERTIFICATE OF COMPLIANCE

Certificate Number 20171201-E60645
Report Reference E60645-20130524
Issue Date 2017-DECEMBER-01

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 - Spring type Terminal Blocks, Series ZK:

Cat. No(s). ZK followed by 2.5 may be followed by –CH-4P-LR, –CH-4P-RL, –S, -S-4P, SP, -SP-4P, –SF, -SF-R1, -SF-R3, -S-R1, -3P, 4P-R1, or -4P, followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank;
Cat. No(s). ZK followed by 4 may be followed by -3P or -4P, followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank;
Cat. No(s). ZK followed by 6, 10, 16 may be followed by -3P followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank;
Cat. No(s). ZK followed by 10, 16 may be followed by -3P, followed by –PV, followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank;

USR, CNR Recognized Component – Protective Conductor Terminal Blocks, Cat. No(s). ZK2.5-PE, ZK2.5-PE-3P, ZK2.5-PE-4P, ZK4-PE, ZK4-PE-3P, ZK4-PE-4P, ZK6-PE, ZK6-PE-3P, ZK10-PE, ZK16-PE, ZK10-PE-3P and ZK16-PE-3P.

Ratings:

Cat. No.	Wire Range AWG	Wire Type, Cu	Stripping length (mm)	F W	Torque [N·m]	Voltage V ac	Current A	UG	CA
ZK2.5	26-12	SOL / STR	11	2	N/A	600	20	B, C	2,(105),4
ZK2.5-3P	26-12	SOL / STR	11	2	N/A	600	20	B, C	2,(105),4
ZK2.5-4P	26-12	SOL / STR	11	2	N/A	600	20	B, C	2,(105),4
ZK2.5-S-4P	26-12	SOL / STR	11	2	N/A	300	20	B, C	2,(105),4
						600	5	D	2,(105),4
ZK2.5-SP-4P	26-12	SOL / STR	11	2	N/A	300	18	B, C	2,(105),4
						600	5	D	2,(105),4
ZK2.5-4P-R1	26-12	SOL / STR	11	2	N/A	300	20	B, C	2,(105),4
						600	5	D	2,(105),4
ZK2.5-CH-4P-LR	26-12	SOL / STR	11	2	N/A	300	1	B, C	2,(105),4
						600	1	D	2,(105),4
ZK2.5-CH-4P-RL	26-12	SOL / STR	11	2	N/A	300	1	B, C	2,(105),4
						600	1	D	2,(105),4
ZK4	26-10	SOL / STR	12.5	2	N/A	600	30	B, C	2,(105),4
ZK4-3P	26-10	SOL / STR	12.5	2	N/A	600	30	B, C	2,(105),4
ZK4-4P	26-	SOL / STR	12.5	2	N/A	600	30	B, C	2,(105),4
ZK6	24-8 (1)	STR	12.5	2	N/A	600	50	B, C	2,(105),4

Bruce Mahrenholz, Director North American Certification Program

UL LLC

CERTIFICATE OF COMPLIANCE

Certificate Number 20171201-E60645
Report Reference E60645-20130524
Issue Date 2017-DECEMBER-01

		SOL					30		
ZK6-3P	24-8 (1)	STR	12.5	2	N/A	600	50	B, C	2,(105),4
		SOL					30		
ZK2.5-SF	26-12	SOL / STR	11	2	N/A	300	16	B, C	2,(105),4
						600	5	D	2,(105),4
ZK2.5-SF-R1	26-12	SOL / STR	11	2	N/A	300 (2)	16	B, C	2,(105),4
						600 (2)	5	D	2,(105),4
ZK2.5-SF-R3	26-12	SOL / STR	11	2	N/A	300 (2)	16	B, C	2,(105),4
						600 (2)	5	D	2,(105),4
ZK2.5-S-R1	26-12	SOL / STR	11	2	N/A	300	20	B, C	2,(105),4
						600	5	D	2,(105),4
ZK2.5-SP	26-12	SOL / STR	11	2	N/A	300	18	B, C	2,(105),4
						600	5	D	2,(105),4
ZK2.5-S	26-12	SOL / STR	11	2	N/A	300	20	B, C	2,(105),4
						600	5	D	2,(105),4
ZK10	20-6	STR	15	2	N/A	600	55	B, C	2,(105),4
	20-10	SOL					30		
ZK10-3P	20-6	STR	15	2	N/A	600	56	B, C	2,(105),4
	20-10	SOL					30		
ZK10-3P	20-6	STR	15	2	N/A	1000	56	E	2,(105),4
	20-10	SOL					30		
ZK10-PV	20-6	STR	15	2	N/A	1000	55	E	2,(105),4
	20-10	SOL					30		
ZK10-3P-PV	20-6	STR	15	2	N/A	1000	56	E	2,(105),4
	20-10	SOL					30		
ZK16	20-4	STR	15	2	N/A	600	75	B, C	2,(105),4
	20-10	SOL					30		
ZK16-3P	20-4	STR	15	2	N/A	600	75	B, C	2,(105),4
	20-10	SOL					30		
ZK16-3P	20-4	STR	15	2	N/A	1000	75	E	2,(105),4
	20-10	SOL					30		
ZK16-PV	20-4	STR	15	2	N/A	1000	75	E	2,(105),4
	20-10	SOL					30		
ZK16-3P-PV	20-4	STR	15	2	N/A	1000	75	E	2,(105),4
	20-10	SOL					30		
ZK10-PE,	20-6(1)	SOL/STR	15	2	N/A	N/A	N/A	B, C	2,(105),4

Bruce Mahrenholz, Director North American Certification Program

UL LLC

CERTIFICATE OF COMPLIANCE

Certificate Number 20171201-E60645
Report Reference E60645-20130524
Issue Date 2017-DECEMBER-01

ZK10-PE-3P									
ZK16-PE, ZK16-PE-3P	20-4(1)	SOL/STR	15	2	N/A	N/A	N/A	B, C	2,(105),4
ZK6-PE, ZK6-PE-3P	24-8(1)	SOL/STR	12.5	2	N/A	N/A	N/A	B, C	2,(105),4
ZK2.5-PE, ZK2.5-PE-3P, ZK2.5-PE-4P	26-12	SOL/STR	11	2	N/A	N/A	N/A	B, C	2,(105),4
ZK4-PE, ZK4-PE-3P, ZK4-PE-4P	26-10	SOL/STR	12.5	2	N/A	N/A	N/A	B, C	2,(105),4

Note 1. Maximum solid wire size is 10AWG.
Note 2 – Model ZK2.5-SF-R1 will be used below 110V because electronic element is 24-110V rated, and Model ZK2.5-SF-R3 will be used below 250V 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			
ZK2.5, ZK2.5-3P, ZK2.5-4P	14-12 AWG STR/SOL	100	30	110	110	60	30	N/A	100000	600
ZK4, ZK4-3P, ZK4-4P	10 AWG STR	100	60	175	175	60	30	N/A	100000	600
	10AWG SOL									
ZK6, ZK6-3P	10-8 AWG STR	200	100	250	250	60	30	N/A	100000	600
	10AWG SOL									
ZK10	10-6 AWG STR	200	100	250	250	60	30	N/A	100000	600
	10AWG SOL									
ZK16	10-4 AWG STR	200	100	250	250	60	30	N/A	100000	600
	10AWG SOL									
ZK10-3P	10-6 AWG STR	200	100	250	250	60	30	N/A	100000	600
	10AWG SOL									
ZK16-3P	10-4 AWG STR	200	100	250	250	60	30	N/A	100000	600
	10AWG SOL									

For SCCR ratings, enclosure size employed for tests is 80 x 130 x 100 mm for Cat. Nos. ZK2.5, ZK2.5-3P, ZK2.5-4P, ZK4, ZK4-3P, ZK4-4P, ZK6, ZK6-3P, ZK10, ZK10-3P, ZK16 and ZK16-3P.

Bruce Mahrenholz, Director North American Certification Program

UL LLC

CERTIFICATE OF COMPLIANCE

Certificate Number	20161128-E60645
Report Reference	E60645-20131031
Issue Date	2016-NOVEMBER-28

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

Models:

Spring type Terminal Blocks: Series ZK:
Cat. No(s). ZK followed by 2.5 may be followed by -D1, -D2, -D2-PE (upper terminal only), -T1, -T3, -L-L-PE (upper and middle terminals only), -L-N-PE (upper and middle terminals only) followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank.

Terminal Blocks Series ZK, Cat. Nos. ZK followed by 2.5, followed by D-CH-UD, D-CH-DU, -D-CH2-UD, -D-CH2-DU, -D-CH2-DU-LR or -D-CH2-DU-RL followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank.

Protective Conductor Terminal Blocks, Series ZK: Cat. No(s). ZK2.5-D1-PE, ZK2.5-D2-PE (lower terminal only), ZK2.5-T1-PE, ZK2.5-L-L-PE (lower terminal only), ZK2.5-L-N-PE (lower terminal only).

Bruce Mahrenholz, Director North American Certification Program

UL LLC

CERTIFICATE OF COMPLIANCE

Certificate Number 20161128-E60645
Report Reference E60645-20131031
Issue Date 2016-NOVEMBER-28

Ratings:

Cat. No.	Wire Range AWG	Wire Type, Cu	F W	Torque [N·m]	Voltage V ac	Current A	UG	CA
ZK2.5-D1, ZK2.5-D-CH-UD, ZK2.5-D-CH-DU	26-12	SOL/STR	2	N/A	600	20	B,C	2,(105),4
ZK2.5-D2	26-12	SOL/STR	2	N/A	600	20	B,C	2,(105),4
ZK2.5—D1-PE	26-12	SOL/STR	2	N/A	N/A	N/A	B,C	2,(105),4
ZK2.5—D2-PE (upper terminals)	26-12	SOL/STR	2	N/A	600	20	B,C	2,(105),4
ZK2.5—D2-PE (lower terminals)#	26-12	SOL/STR	2	N/A	N/A	N/A	B,C	2,(105),4
ZK2.5-D-CH2-UD, ZK2.5-D-CH2-DU, ZK2.5-D-CH2-DU-LR, ZK2.5-D-CH2-DU-RL	26-12	SOL/STR	2	N/A	600	1	B,C	2,(105),4
ZK2.5-T1, ZK2.5-T3	26-12	SOL/STR	2	N/A	300	20	B,C	2,(105),4
					600	5	D	
ZK2.5-L-L-PE, ZK2.5-L-N-PE (upper and middle terminals)	26-12	SOL/STR	2	N/A	300	20	B,C	2,(105),4
					600	5	D	
ZK2.5-L-L-PE, ZK2.5-L-N-PE (lower terminals)#	26-12	SOL/STR	2	N/A	N/A	N/A	B,C	2,(105),4
ZK2.5-T1-PE	26-12	SOL/STR	2	N/A	N/A	N/A	B,C	2,(105),4

Note # - Only the lower tiers employed in these devices are approved as Protective Conductor Terminal Blocks.

Bruce Mahrenholz, Director North American Certification Program

UL LLC

CERTIFICATE OF COMPLIANCE

Certificate Number 20161128-E60645
Report Reference E60645-20131031
Issue Date 2016-NOVEMBER-28

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			
ZK2.5-D1, ZK2.5-D2	14-12 AWG STR/SOL	100	30	110	110	60	30	N/A	100000	600

For SCCR ratings, enclosure size employed for tests is 80 x 130 x 100 mm for Cat. Nos. ZK2.5-D1 and ZK2.5-D2.

Bruce Mahrenholz, Director North American Certification Program

UL LLC