

**XCIB2.E215481****Terminal Blocks for Use in Zone Classified Hazardous Locations - Component**[Page Bottom](#)**Terminal Blocks for Use in Zone Classified Hazardous Locations - Component**[See General Information for Terminal Blocks for Use in Zone Classified Hazardous Locations - Component](#)

WIELAND ELECTRIC GMBH
 BRENNERSTRASSE 10-14
 96052 BAMBERG, GERMANY

E215481

Class I, Zone 1, AEx e II.

Cat. No.	Wire Range	Wire Type	FW	V	A	Torque	CA
WK2.5/U	22-12	Cu	2	600	30(5)	8	2(105),6
WK4/U	22-10(1,3)	Cu	2	600	35(6)	8	2(105),6
WK6/U	22-8(2)	Cu	2	600	50	20	2(105),6
WKN10/U	16-6(4)	Cu	2	600	65	35	2(105),6
WKN16/U	12-4	Cu	2	600	90(7)	35	2(105),6
WKN35/U	10-2	Cu	2	600	95	50	2(105),6
WK4/D1/2U	22-12	Cu	2	600	35(6)	8	2(105),6
WK4/D2/2U	22-12	Cu	2	600	35(6)	8	2(105),6
WK4/DEU	22-12	Cu	2	600	35(6)	8	2(105),6
WK4/D2/2SLU	22-12	Cu	2	600	—	8	2(105),6
WK4SL/U	22-12	Cu	2	600	—	8	2(105),6
WK6SL/U	22-8	Cu	2	600	—	20	2(105),6
WKN10SL/U	16-6	Cu	2	600	—	35	2(105),6
WKN16SL/U	12-4	Cu	2	600	—	35	2(105),6
WKN35SL/U	10-2	Cu	2	600	—	50	2(105),6
Note: 1: May be used with 2-No. 16, 2-No. 18, 3-No. 20 or 3-No. 22 sol-str AWG wires.							
Note: 2: May be used with 2-No. 12, 2-No. 16, 3-No. 18 or 3-No. 22 sol-str AWG wires.							
Note: 3: May be used with 2-No. 14 sol-str AWG wire when both conductors are of the same type.							
Note: 4: May be used with 2-No. 12, 2-No. 14 or 3-No. 16 sol-str AWG wires.							
Note: 5: 30 A max for factory-wiring, 20 A max for field-wiring.							
Note: 6: 35 A max for factory-wiring, 30 A max for field-wiring.							
Note: 7: 90 A max for factory-wiring, 85 A max for field-wiring.							
WKN2.5E/U	22-12	Cu	2	600	20(1)	7	2(105),6
WKN2.5E/U/VB/SW/V0	22-12	Cu	2	600	20(1)	7	2(105),6
WKM4/15	22-10	Cu	2	600	30	6	2(105),6
WKM2.5/15	22-14	Cu	2	300	10	6	2(105),6
Note: 1: 20 A max for factory-wiring, 25 A max for field-wiring.							

Terminal blocks.

Type	Wire Range	Wire Type	FW	TQ Lb.In.	V	A	CA
WKFN 2.5 /35	22-12	Cu	2	—	500	20	2(105)4,6#
WKFN 2.5 E/35	22-12	Cu	2	—	320	20	2(105)4,6#

WKFN 2.5 E3/35	22-12	Cu	2	—	320	20	2(105)4,6#
WKFN 2.5 E/VB/35	22-12	Cu	2	—	320	18	2(105)4,6#
WKFN 2.5 E3/VB/35	22-12	Cu	2	—	320	18	2(105)4,6#
WKFN 2.5 D1/2/35	22-12	Cu	2	—	500	20	2(105)4,6#
WKFN 2.5 D2/2/35	22-12	Cu	2	—	500	20	2(105)4,6#
WKFN 2.5 /SL/35	22-12	Cu	2	—	—	—	2(105)4,6#
WKFN 2.5 E/SL/35	22-12	Cu	2	—	—	—	2(105)4,6#
WKFN 2.5 E3/SL/35	22-12	Cu	2	—	—	—	2(105)4,6#
WKFN 2.5 D1/2/SL/35	22-12	Cu	2	—	—	—	2(105)4,6#
WKFN 2.5 D2/2/SL/35	22-12	Cu	2	—	—	—	2(105)4,6#
WKFN 2.5 D/D/35	22-12	Cu	2	—	500	—	2(105)4,6#
Note: #Unique Conditions of Acceptability - i.e. The need for overload protection of the wiring shall be considered in the end product.							

Marking: Company name, catalog designation and the Recognized Component Mark  (catalog designation may appear on shipping carton.)
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REPORT

on

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**Terminal Blocks for Use in Zone Classified
Hazardous Locations - Component**

Wieland Electric GmbH
Bamberg, Germany

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DESCRIPTION

PRODUCT COVERED:

*USR Component Terminal Blocks Types WK 2.5, WK 4, WK 6, with or without suffix SL, followed by suffix /U; WK 4/D, followed by suffix 1/2, 2/2, 2/2 SL or E followed by suffix U; WKN 10, WKN 16, WKN 35 with or without suffix SL, followed by suffix /U, may be followed by VB for use in Class I, Zone 1, AEx e II T6; Hazardous Locations.

Accessories include:

End plate AP 2.5-4 suitable for use with WK 2.5/U.

Endplate AP6 suitable for use with WK 6/U.

Endplate APN10 suitable for use with WKN 10/U.

Endplate APN 16 suitable for use with WKN 16/U.

Endplate AP 2.5-4/SL suitable for use with for WK 2.5/SL/35.

Endplate AP 4E suitable for use with WK 4E/U.

GENERAL:

These devices are single-pole terminal blocks which provide screw tightening pressure wire connectors for copper wire termination. They are intended for rail-mounting, are grouped side by side to form multi-pole units of indefinite length. They are intended for general industrial applications. All wire connectors are suitable for field and factory wiring within the wire ranges noted below.

ELECTRICAL RATINGS:

Type	Wire Range, AWG	Current Rating		Voltage Rating	Conductor Torque (lb-in.)	Conductor Torque (Nm)
		Field wiring	Factory wiring			
WK 2.5	22-12, copper	20 A	30 A	600 V	5.3	0.60
WK4	22-10, copper ^{1,3}	30 A	35 A	600 V	8.0	0.90
WK4E/U ⁵	No. 22-10 ²	20 A	20 A	300 V	6.0	0.68
WK 6	22-8, copper ²	50 A	50 A	600 V	10.6	1.2
WKN 10/U	16-6, copper ⁴	65 A	65 A	600 V	17.7	2.0
WKN 16/U	12-4, copper	85 A	90 A	600 V	22.1	2.5
WKN 35/U	10-2, copper	150 A	150 A	600 V	35.4	4.0

¹: May be used with 2-No. 16, 2-No. 18, 3-No. 20 or 3-No. 22 sol/str AWG wire.

²: May be used with 2-No. 12, 2-No. 16, 3-No. 18 or 3-No. 22 sol/str AWG wire.

³: May be used with 2-No. 14, sol/str AWG wire when both conductors are of the same type.

⁴: May be used with 2-No. 12, 2-No. 14, or 3-No. 16 sol/str AWG wires.

⁵: Cat. Nos. WK4E/U and WK4E/U/VB have optional short circuit current ratings evaluated for use with copper conductors only. Must be protected by the max. ampere and type of overcurrent protective device noted below:

Max. voltage all terminal blocks: 480V

Cat. No.	Suitable Copper Conductor Range		Self-Protected Combination Motor Controller, Type E			SCCR, kA
	Line	Load	Mfr	Type	Max. Ampere	
WK4E/U WK4E/U/VB	10	10	Siemens	3RV1021-4CA10	22	50
	10	10	Siemens	3RV1031-4FA10	40	65

ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

USR indicates products Recognized in accordance with the following Standards for use in the United States:

UL 60079-0 - Explosive Atmospheres - Part 0: Equipment - General Requirements - Edition 5 - Revision Date 2009/12/08

UL 60079-7 - Explosive Atmospheres - Part 7: Equipment Protection By Increased Safety 'E' - Edition 4 - Revision Date 2009/02/18

Ordinary Location requirements have been covered in UL file E60678

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CONDITIONS OF ACCEPTABILITY:

- *1. The insulating bodies are materials having a specific temperature index values, see product construction details below. The use of the materials shall be judged in the end use.
2. These devices may be suitable for other than general industrial use, providing spacings, insulation, heat rise, etc. are acceptable in the end-use.
3. The mounting suitability shall be determined in the end use.
4. Type WK with "SL" suffix are grounding type terminal blocks. The suitability of the grounding path shall be investigated in the end-use equipment.
5. The tightening **torques** for field wiring pressure wire connector terminals **are** recorded in the Ratings section of this report. These torque **values** shall be marked on the end-use product for those categories which require torque markings for field terminated conductors.
6. Cat. No. WK 4/D followed by suffix **1/2**, 2/2, 2/2 SL, E, followed by suffix U. **Pressure** wire connectors are acceptable for field wiring applications in accordance with the field wiring requirements in UL 486E, Standard for Equipment Wiring Terminals.
7. Cat. Nos. WKN 16SL/U, WKN 35SL/U (mounted to a 32mm mounting rail) have completed the Short Time High Current Test of UL 467, Standard for Grounding and Bonding Equipment, Sixth Edition, with acceptable results.
8. Cat. Nos. WKN 16SL/U, WKN 35SL/U (mounted to a 35mm mounting rail) do not comply with UL 467 Standard for Grounding and Bonding Equipment, Sixth Edition, Short Time High Current Requirements.

NOMENCLATURE:

Terminal Block	Wire size (mm ²)	Construction Features	Construction Features	Mounting Option	Material (not part of marking string)
WK - Standard					
WKN - Low profile terminal					
	2.5, 4, 6, 10, 16, 35				
		E - Two tier connector on both sides, independent polarity			
		D1/2 - Two tier connector on one side, single connector on other side, same polarity			
		D2/2 - Two tier connector on both sides, same polarity			
		D/E - Two tier connector on both sides, independent polarity			
		SL - Earth terminal			
				U - Both 32mm and 35mm mounting rails	
				35 - 35mm mounting rail	
					V0 - according to UL94-V0