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Project 96NK38036

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REPORT

On

COMPONENT - TERMINAL BLOCKS
FOR USE IN CLASS I, ZONE 0, 1 AND 2 HAZARDOUS LOCATIONS

Weidmueller Interface GmbH & Co KG
Detmold, Germany

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DESCRIPTION

PRODUCT COVERED:

* **USR, CNR** Terminal Blocks, Type WDU 1.5/R3.5, WDU 1.5/ZZ, WDU 2.5N, WDU 2.5/1.5/ZR, WDU 2.5, WDU 4, WDU 4N, WDU 4/ZR, WDU 4/ZZ, WDU 4 SL, WDU 4 SL/EN, WDU 6, WDU 6 SL, WDU 6 SL/EN TS 32, WDU 6 SL/EN TS 35, WDU 10, WDU 10 SL /EN TS 32, WDU 10 SL /EN TS 35, WDU 10 SL, WDU 16, WDU 35, WDU 35N, WDU 50N, WDU 70N/35, WDU 70/95, WDU 95N/120N, WDU 120/150, WPE 1.5/R3.5, WPE 1.5/ZZ, WPE 2.5/1.5/ZR, WPE 2.5, WPE 2.5N, WPE 4, WPE 4/ZZ, WPE 4/ZR, WPE 4N, WPE 6, WPE 10, WPE 16, WPE 35, WPE 35N, WPE 50N, WPE 70/95, WPE 70N/35, WPE 95N/120N, WPE 120/150, WDK 1.5/R3.5, WDK 2.5, WDK 2.5 ZQV, WDK 2.5DU-PE, WDK 2.5N, WDK 2.5N DU-PE, WDK 2.5N V, WDK 2.5N/PE, WDK 2.5PE, WDK 2.5V, WDK 4N, WDK 4N DU-PE, WDK 4N PE, WDK 4N V, WFF 35, WFF 70, WFF 120, WFF185, WFF 300, for use in Class I, Zone 1, AEx eb IIC and Class I, Zone 1, Ex eb IIC Gb hazardous locations.

USR, **Terminal Blocks, Type WDU 2.5/TC TYP N, WDU 2.5/TC TYP E, WDU 2.5/TC TYP B, WDU 2.5/TC TYP K, WDU 2.5/TC TYP T, WDU 2.5/TC TYP J and WDU 2.5/TC TYP SR, for use in Class I, Zone 1, AEx eb IIC hazardous locations.**

GENERAL:

These are rail mounted terminals having a terminal assembly recessed into a molded insulation housing. A tin/lead electroplated brass or copper current bar is fixed centrally across the housing with a sliding zinc plated steel clamping yoke and clamping screw located at both ends of the bar. A stainless steel spring clip is recessed into the foot of the housing to provide a clip-on locking device for mounting onto a carrier rail.

For factory and field wiring unless otherwise indicated.

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Terminal Blocks not involving a potential of more than 50 V - Series WDU 2.5/TC only.

RATINGS:**Table 1**

Type	Voltage [V] Industrial general	Voltage [V] HazLoc	Current [A]	Cross section Sol/Str [AWG/kcmil]	Torque [lb-in]	Strip length [mm]
WDU 1.5/R3.5, WDK 1.5/R3.5	300	275	15	26-14	4.5	7
WDU1.5/ZZ	300	300	20	22-12	4.5	7
WDU2.5N	300	300	20	22-12	4.5	10
WDU 2.5/1.5/ZR	600	550	20	12-14	4.5	10
WDU 2.5	600	600	25	No. 28-12	4.5-7.1	10
WDU 4	600	600	35	No. 22-10 ,	9.0	10
WDU 4N	300	300	30	No. 30-10	4.5	11
WDU 4 ZZ , WDU 4 ZR	600	600	30	No. 30-10	6.2	10
WDU4 SL/EN	600	600	30	No. 22-10	6.2	13
WDU4 SL	600	440	30	No. 22-10	6.2	13
WDU6	600	600	50	No. 22-8	14.2	12
WDU6 SL WDU 6 SL/EN TS32 WDU 6 SL/EN TS35	150	150	50	No. 20-8	7.2	16
WDU 10	600	600	65	No. 18-6	20.4	12
WDU10 SL WDU 10 SL/EN TS32 WDU 10 SL/EN TS35	600	600	50	16-8	10.8	17
WDU 10 SL/EN TS32	600	550	50	16-8	10.8	17
WDU 16	600	600	85	No. 18-4	35	16
WDU 35	1000	690	150	No. 12-1/0	51	18
WDU 35N	1000	352	150	No. 12-1/0	51	18
WDU 50N	1000	690	150	No. 10-1/0	87	24
WDU 70/95	1000	1000	175	No. 6-2/0	87	30
WDU120/150	1000	1000	225	No. 4-3/0	130	35
WPE1.5/R3.5	N/A	N/A	N/A	No. 26-18	2.3	7
WPE2.5/1.5/ZR	N/A	N/A	N/A	No. 22-12	4.5-7.1	10
WPE1.5/ZZ	N/A	N/A	N/A	No. 22-14	5	7
WPE 2.5	N/A	N/A	N/A	No. 22-12	7.1	10
WPE 2.5N	N/A	N/A	N/A	No. 26-12	4.5	10

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Table 1 con't.

Type	Voltage [V] Industrial general	Voltage [V] HazLoc	Current [A]	Cross section Sol/Str [AWG/kcmil]	Torque [lb-in]	Strip length [mm]
WPE4	N/A	N/A	N/A	No. 22-10	9.0	10
WPE 4 ZZ WPE 4 ZR	N/A	N/A	N/A	No. 30-10	6.2	10
WPE 4N	N/A	N/A	N/A	No. 26-10	4.4	11
WPE 6	N/A	N/A	N/A	No. 20-8	14.2	12
WPE 10	N/A	N/A	N/A	No. 16-6	20.4	12
WPE 16	N/A	N/A	N/A	No. 24-4	35	16
WPE 35	N/A	N/A	N/A	No. 12-1	51	18
WPE 35N	N/A	N/A	N/A	No. 12-2	35.4-44.2	18
WPE 50N	N/A	N/A	N/A	No. 10-1/0	31.5	24
WPE 70/95	N/A	N/A	N/A	No. 6-2/0	87	30
WPE 95N/120	N/A	N/A	N/A	No. 4-3/0	88.5	27
WPE 120/150	N/A	N/A	N/A	No. 250-2	130	35
WDK 2.5 WDK2.5ZQV	600	275	20	No. 22-12	4.5-7.1	10
WDK 2.5 DU-PE	600	275	30	No. 12-14	4.5-7.1	10
WDK 2.5N, WDK 2.5N V	600	550	20	No. 26-12	3.6	10
WDK 2.5N PE, WDK 2.5N DU-PE	N/A	N/A	N/A	No. 26-12	3.6	10
WDK 2.5PE,	N/A	N/A	N/A	22-12	4.5-7.1	10
WDK 2.5V	600	275	20	No. 22-12	4.5-7.1	10
WDK 4N	600	550	30	No. 26-10	4.5	8
WDK 4N DU-PE	600	550	30	No. 26-10	4.5	8
WDK 4N PE	N/A	N/A	N/A	No. 26-10	4.5	8
WDK 4N V	600	550	30	No. 26-10	4.5	8
WFF 35 ⁽¹⁾	1000	1000	115	14-2	39.8	-
WFF 70 ⁽¹⁾	1000	1000	175	14-2/0	88.5	-
WFF 120 (1)	1000	1000	310	10-250	132	-
WFF 185 (1)	1000	1000	380	9-500	177	-
WFF 300 (1)	1000	1000	500	6-600	354	-

Note (1): May be provided with Suffix AH, for optional cover

Table 1 con't.

Type	Voltage [V] Industrial general	Voltage [V] HazLoc	Current [A]	Cross section Sol/Str [AWG/kcmil]	Torque [Nm]	Strip length [mm]
WDU 70N/35	600	600	195	6-3/0	10	22
WPE 70N/35	N/A	N/A	N/A	6-3/0	10	22
WDU 95N/120N	1000	880	228	4-4/0	16	27
WDU 2.5/TC TYP N, WDU 2.5/TC TYP E, WDU 2.5/TC TYP B, WDU 2.5/TC TYP K, WDU 2.5/TC TYP T, WDU 2.5/TC TYP J WDU 2.5/TC TYP SR (+)	50	50	-	30 - 12	0.4	10

Note (+): Series WDU 2.5/TC is for applications with no assigned ampere rating and within circuit not involving more than 50 volts (intended to be used with thermocouple wires only).

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 7 - Issue Date 2019/03/26UL

UL 60079-7, 5th Ed., Rev. 2017-02-24, Explosive Atmospheres - Part 7: Equipment protection by increased safety "e".

CNR indicates products Recognized in accordance with the following Standards for use in Canada:

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CAN/CSA C22.2 NO. 60079-0:19 EXPLOSIVE ATMOSPHERES - PART 0: EQUIPMENT - GENERAL REQUIREMENTS- Edition 4 - Issue Date 2019/02/01CAN

* CAN/CSA C22.2 No. 60079-7:16, Oct. 2016, Explosive atmospheres - Part 7: Equipment protection by increased safety "e".

NOTE: The products are recognized (XCFR2/7) for Ordinary Locations under the applicant's File E60693, Vol. 1. Sec. 75 (WDU 70N/35 and WPE 70N/35 only), Vol. 1, Sec. 71(WDU 95N/120N and Series WDU 2.5/TC) and Vol. 1, Sec. 38.