

**Z-series
ZDU 2.5/3AN GE**

Weidmüller Interface GmbH & Co. KG
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**Spring connection with tension clamp Technology**

Tension clamp technology is a universal contact system for all common conductor connection types. Its fantastic level of flexibility makes the tension clamp a profitable alternative connection.

General ordering data

Type	ZDU 2.5/3AN GE
Order No.	1683350000
Version	Feed-through terminal, Tension clamp connection, 2.5 mm ² , 800 V, 24 A, Yellow
GTIN (EAN)	4008190478001
Qty.	100 pc(s).

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Technical data
Dimensions and weights

Width	5.1 mm	Width (inches)	0.201 inch
Height	64.5 mm	Height (inches)	2.539 inch
Depth	38.5 mm	Depth (inches)	1.516 inch
Depth including DIN rail	39.5 mm	Net weight	9.13 g

Temperatures

Continuous operating temp., min.	-50 °C	Continuous operating temp., max.	120 °C
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Material data

Material	Wemid	Colour	Yellow
UL 94 flammability rating	V-0		

Rating data IECEx/ATEX

Certificate No. (ATEX)	KEMA97ATEX2521U	ATEX certificate	KEMA97ATEX2521U_d.pdf
ATEX certificate	KEMA97ATEX2521U_e.pdf	Certificate No. (IECEX)	IECEXULD05.0009U
IEC Ex certificate	IECEXULD05.0009U_e.pdf	Max. voltage (ATEX)	550 V
Current (ATEX)	21 A	Wire cross section max. (ATEX)	2.5 mm ²
Max. voltage (IECEX)	550 V	Current (IECEX)	20 A
Wire cross section max. (IECEX)	2.5 mm ²	Voltage, cross-connection	CrossConnectionGuide.pdf
Operating temperature range	For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity	Marking EN 60079-7	
Ex 2014/34/EU label	II 2 G D		Ex e II

System specifications

Version	Tension-clamp connection, for plug-in cross-connector, One end without connector	End cover plate required	Yes
Number of levels	1	No. of clamping points per level	3
Number of potentials per tier	1	Levels cross-connected internally	No
PE connection	No	Mounting rail	TS 35

Additional technical data

Explosion-tested version	Yes	Installation advice	Busbar
Number of similar terminals	1	Open sides	right
Type of mounting	Snap-on		

CSA rating data

Certificate No. (CSA)	200039-1152892	Current size B (CSA)	27 A
Current size C (CSA)	27 A	Current size D (CSA)	5 A
Voltage size B (CSA)	600 V	Voltage size C (CSA)	600 V
Voltage size D (CSA)	600 V	Wire cross section max. (CSA)	12 AWG
Wire cross section min. (CSA)	26 AWG		

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Technical data**Conductors for clamping (rated connection)**

Blade size	0.6 x 3.5 mm	Clamping range, rated connection, max.	4 mm ²
Clamping range, rated connection, min.	0.05 mm ²	Connection direction	top
Cross-section for connected conductor, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, min.	0.5 mm ²	Gauge to IEC 60947-1	A3
Number of connections	3	Stripping length	10 mm
Type of connection	Tension clamp connection	Wire connection cross section AWG, max.	AWG 12
Wire connection cross section AWG, min.	AWG 30	Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, max.	2.5 mm ²
Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, min.	0.5 mm ²	Wire connection cross section, finely stranded, max.	4 mm ²
Wire connection cross section, solid core max. rated connection	4 mm ²	Wire connection cross section, solid core, min. rated connection	0.5 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, max.	2.5 mm ²	Wire connection cross-section, finely stranded, min.	0.5 mm ²

Rating data

Rated cross-section	2.5 mm ²	Rated voltage	800 V
Rated current	24 A	Current at maximum wires	31 A
Standards	IEC 60947-7-1	Volume resistance according to IEC 60947-7-x	1.33 mΩ
Rated impulse withstand voltage	8 kV	Pollution severity	3

UL rating data

Certificate No. (UR)	E60693	Conductor size Factory wiring max. (UR)	12 AWG
Conductor size Factory wiring min. (UR)	30 AWG	Conductor size Field wiring max. (UR)	12 AWG
Conductor size Field wiring min. (UR)	30 AWG	Current size C (UR)	25 A
Voltage size C (UR)	600 V		

Classifications

ETIM 3.0	EC000897	ETIM 4.0	EC000897
ETIM 5.0	EC000897	ETIM 6.0	EC000897
UNSPSC	30-21-18-11	eClass 5.1	27-14-11-20
eClass 6.2	27-14-11-20	eClass 7.1	27-14-11-20
eClass 8.1	27-14-11-20	eClass 9.0	27-14-11-20
eClass 9.1	27-14-11-20		

Product information

Descriptive text ordering data	Rated voltage is reduced to 400 V when using the cross-connector.
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Technical data**Approvals**

Approvals



ROHS

Conform

Downloads

Approval/Certificate/Document of Conformity	CFAT_ZDU 2.5_3AN.pdf DE_PT1101_20160418_1201_ISSUE01.pdf
Engineering Data	EPLAN, WSCAD, Zuken E3.S

Safety note

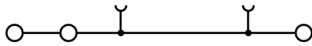
Safety notice	Safety Information
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Drawings



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Accessories

Blank



ZS markers - in proven MultiCard-format - have been developed specifically for the Z-series. They have a large printing area. The hinged mechanism even allows access to cross-connectors without dismantling. Quick installation is guaranteed by the fact that the single tags are clipped on in strips. The single tags are easy to separate.

- Hinged marker area
- Can be fitted in strips or individually
- Markers in proven MultiCard format

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
ZS 10/5 MC	1610000000	ZS, Terminal marker, 10 x 5	4008190263171	480 pc(s).
NE WS		mm, Pitch in mm (P): 5.00 Weidmueller, Allen-Bradley, White		

End brackets



Klippon® Connect with clamping yoke Technology

The high reliability and variety of designs of the terminal blocks with clamping yoke connections make planning easier and optimises operational safety. Klippon® Connect provides a proven response to a range of different requirements.

General ordering data

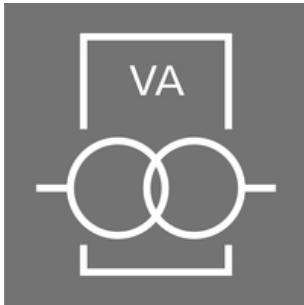
Type	Order No.	Version	GTIN (EAN)	Qty.
WEW 35/1	1059000000	W-Series, End bracket	4008190172282	50 pc(s).
WEW 35/2	1061200000	W-Series, End bracket	4008190030230	100 pc(s).

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Accessories

Test plug



Current and voltage transformer wiring

Our test disconnect terminal blocks featuring spring and screw connection technology allow you to create all the important converter circuits for measuring current, voltage and power in a safe and sophisticated way.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
PS 2.3 RT	0180400000	Accessories, Test plug	4008190060121	20 pc(s).

Reduction Sleeves



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General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
ZRH 2.5/1 WS	1614300000	Z-series, Reducing sleeve	4008190206789	1,000 pc(s).
ZRH 2.5/2 GR/VO	1614290000	Z-series, Reducing sleeve	4008190072476	1,000 pc(s).
ZRH 2.5/3	1614280000	Z-series, Reducing sleeve	4008190206796	1,000 pc(s).

Covers



Spring connection with tension clamp Technology

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General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
ZAD 1/4	1609110000	Z-series, Cover	4008190190910	20 pc(s).

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Accessories

Custom printing



The Dekafix (DEK) marker is the universal marker for all conductor and plug-in connectors as well as for electronic sub-assemblies. The system is ideal for short number sequences and covers a wide range of ready-printed markers.

Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- Large range of ready-to-use markers
- Strips for fast installation
- Terminal markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
DEK 5/5 MC SDR	1609810000	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00 Weidmueller, To customer specification	4008190456597	200 pc(s).

ZQV 2.5



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General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
ZQV 2.5/8	1608920000	Accessories, Cross- connector, 24 A	4008190061531	20 pc(s).
ZQV 2.5/9	1608930000	Accessories, Cross- connector, 24 A	4008190117009	20 pc(s).
ZQV 2.5/20	1908960000	Z-series, Cross-connector, For the terminals, No. of poles: 20	4032248535293	20 pc(s).
ZQV 2.5/4	1608880000	Accessories, Cross- connector, 24 A	4008190082208	60 pc(s).
ZQV 2.5/7	1608910000	Accessories, Cross- connector, 24 A	4008190159665	20 pc(s).
ZQV 2.5/5	1608890000	Accessories, Cross- connector, 24 A	4008190065713	20 pc(s).
ZQV 2.5/2	1608860000	Accessories, Cross- connector, 24 A	4008190123680	60 pc(s).
ZQV 2.5/6	1608900000	Accessories, Cross- connector, 24 A	4008190149840	20 pc(s).

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ZQV 2.5/3	1608870000	Accessories, Cross-connector, 24 A	4008190061630 60 pc(s).
ZQV 2.5/10	1608940000	Accessories, Cross-connector, 24 A	4008190099060 20 pc(s).
ZQV 2.5/50	1697540000	Accessories, Cross-connector, 24 A	4008190883256 10 pc(s).

Tools



Tools for removing the sheathing of uncut power cables and outgoing feeders, plus screwdrivers for installing FieldPower components.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
SDS 0.6X3.5X100	9008330000	Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade thickness (A): 0.6 mm	4032248056286	1 pc(s).

End plates



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Type	Order No.	Version	GTIN (EAN)	Qty.
ZAP/TW 2 RT	1683740000	Z-series, End plate, Seperation plate	4008190477172	50 pc(s).
ZAP/TW 2 BL	1608780000	Z-series, End plate, Seperation plate	4008190190897	50 pc(s).
ZAP/TW 2 DB	1608770000	Z-series, Accessories, End plate, Seperation plate	4008190190880	50 pc(s).
ZAP/TW 2 GN	1683760000	Z-series, End plate, Seperation plate	4008190477257	50 pc(s).
ZAP/TW 2 OR	1608790000	Z-series, End plate, Seperation plate	4008190190903	50 pc(s).

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Accessories

Test adapter



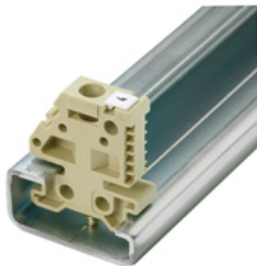
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Type	Order No.	Version	GTIN (EAN)	Qty.
ZTA 1	1609040000	Accessories, Test adapter, 9 A	400819019685 1 25 pc(s).	
ZTA 1/ZA	1609050000	Accessories, Test adapter, 9 A	4008190206543 25 pc(s).	

End bracket



Klippon® Connect with clamping yoke Technology

The high reliability and variety of designs of the terminal blocks with clamping yoke connections make planning easier and optimises operational safety. Klippon® Connect provides a proven response to a range of different requirements.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
EW 35	0383560000	Accessories, End bracket	4008190181314 50 pc(s).	
EW 35 GR 7032	0383530000	Accessories, End bracket	4008190027322 50 pc(s).	
EW 35/ SCHA/M3	0258660000	Accessories, End bracket	4008190033477 20 pc(s).	

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End brackets

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Type	Order No.	Version	GTIN (EAN)	Qty.
ZEW 35	9540000000	Z-series, End bracket	4008190956264	20 pc(s).
ZEW 35/2	8630740000	Z-series, End bracket	4032248348916	20 pc(s).