

## Z terminal with tension spring connection ZDU 35

**Weidmüller Interface GmbH & Co. KG**  
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Terminal blocks in tension clamp system and the Z Series are specially customised to the customers' requirements. Less space, spacious labelling area, integrated test point, cross-connection functionality within the Z Series and another family of terminals by Weidmüller. Z-Series terminals have a large clamping range and one or two cross-connection slots. Plug-in standard cross-connections enable potentials to be distributed over any number of terminals.

### General ordering data

Type	ZDU 35
Order No.	<a href="#">1739620000</a>
Version	Z terminal with tension spring connection, Feed-through terminal, Rated cross-section: 35 mm <sup>2</sup> , Tension clamp connection, Wemid, Dark Beige, Direct mounting
GTIN (EAN)	4008190957070
Qty.	10 pc(s).

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**Technical data**

**Dimensions and weights**

Width	16 mm	Height	100.5 mm
Height of lowest version	59.5 mm	Depth	58.5 mm
Net weight	82.009 g		

**Temperatures**

Continuous operating temp., min.	-50 °C	Continuous operating temp., max.	120 °C
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**Rated data IECEx/ATEX**

Certificate No. (ATEX)	KEMA00ATEX2107U	ATEX certificate	KEMA00ATEX2107U_d.pdf
ATEX certificate	KEMA00ATEX2107U_e.pdf	IEC Ex certificate	IECExULD05.0009U_e.pdf
Max. voltage (ATEX)	690 V	Current (ATEX)	109 A
Wire cross section max. (ATEX)	35 mm <sup>2</sup>	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	
Marking ATEX Directive 94/9/EC	II 2 G D		Ex e II

**Additional technical data**

Explosion-tested version	Yes	Installation advice	Direct mounting
Number of similar terminals	1	Open sides	closed
Type of mounting	Snap-on	Version	Tension-clamp connection, for plug-in cross-connector, closed

**CSA ratings data**

Certificate No. (CSA)	200039-1152892	Voltage size B (CSA)	600 V
Voltage size C (CSA)	600 V	Voltage size D (CSA)	600 V
Current size B (CSA)	120 A	Current size C (CSA)	120 A
Current size D (CSA)	5 A	Wire cross section max. (CSA)	2 AWG
Wire cross section min. (CSA)	12 AWG		

**Clampable wires (additional connection)**

Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, min.	2.5 mm <sup>2</sup>	Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max.	35 mm <sup>2</sup>
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**Technical data****Clampable wires (rated connection)**

Type of connection	Tension clamp connection	Stripping length	25 mm
Blade size	1.0 x 5.5 mm	Connection direction	top
Number of connections	2	Clamping range, rated connection, min.	2.5 mm <sup>2</sup>
Clamping range, rated connection, max.	35 mm <sup>2</sup>	Gauge to IEC 60947-1	A8
Wire connection cross section, solid core, min. rated connection	2.5 mm <sup>2</sup>	Wire connection cross section, solid core max. rated connection	16 mm <sup>2</sup>
Wire connection cross section, stranded, rated connection, min.	2.5 mm <sup>2</sup>	Wire connection cross section, stranded, rated connection, max.	35 mm <sup>2</sup>
Wire connection cross section, finely stranded, max.	35 mm <sup>2</sup>	Wire connection cross-section, finely stranded, min.	2.5 mm <sup>2</sup>
Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, min.	2.5 mm <sup>2</sup>	Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, max.	35 mm <sup>2</sup>
Cross-section for connected conductor, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, min.	2.5 mm <sup>2</sup>	Wire connection cross-section, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, max.	35 mm <sup>2</sup>
Wire connection cross section AWG, min.	AWG 12	Wire connection cross section AWG, max.	AWG 2

**Rated data**

Rated cross-section	35 mm <sup>2</sup>	Rated voltage	800 V
Rated impulse withstand voltage	8 kV	Rated current	125 A
Current at maximum wires	125 A	Standards	IEC 60947-7-1
Pollution severity	3		

**UL ratings data**

Certificate No. (UR)	E60693	Voltage size C (UR)	600 V
Current size C (UR)	120 A	Conductor size Factory wiring max. (UR)	2 AWG
Conductor size Factory wiring min. (UR)	12 AWG	Conductor size Field wiring max. (UR)	2 AWG

**Material data**

Insulating material	Wemid	Material	Wemid
Colour	Dark Beige	UL 94 flammability rating	V-0

**System specifications**

Product family	Z terminal with tension spring connection	Type of connection	Tension clamp connection
Connection direction	top	Number of levels	1
Number of connections	2	No. of clamping points per level	2
Levels cross-connected internally	No	Mounting rail	TS 35
End cover plate required	No		

**Classifications**

ETIM 3.0	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		

**Data sheet**

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**Technical data**

**Product information**

Descriptive text ordering data	End plate is integrated. 1000 VDC rated voltage tested.
Descriptive text technical data	Cross-connection of ZDU 10 and ZDU 35 is possible using the ZQV 35-10. Cross-connection of ZDU 16 and ZDU 35 is possible using the ZQV 35-16.

**Approvals**

Approvals



ROHS Conform