

Terminals / Direct Push In Technology

Terminals / Push In

Overview / Push In

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Push In - Installation terminals

Standard design

E.4 - E.5

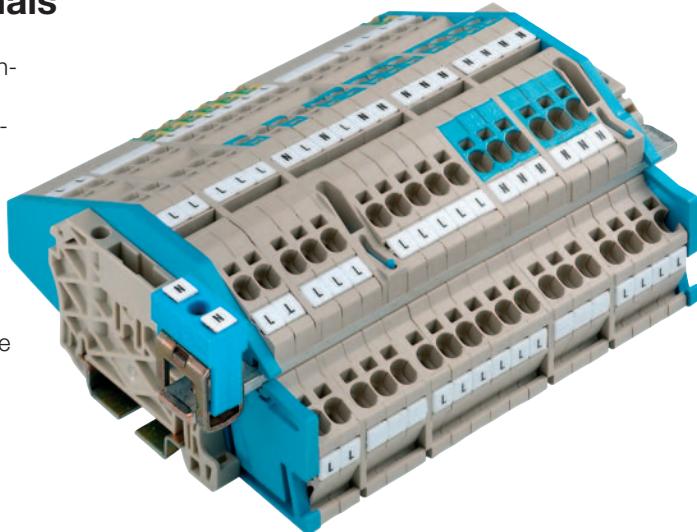
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Overview

Direct Push In technology for terminals

We have extended our comprehensive range of terminals by introducing at the new family of 3-conductor installation terminals featuring "Push In" technology. Particularly suitable for energy distribution in building service installations, the roof-style terminals provide convenient wiring solutions. And the technical data testify to their excellence: all the features of a 4 mm² terminal in the size of a 2.5 mm² type.

Push In terminals can take conductor cross-sectional areas from 0.5 to 4 mm² and are designed as a TOP system, i.e. with both conductor feed-in and activation of the spring device taking place from above and in parallel.



Direct Push In technology for direct savings

Among the impressive features of the direct Push In connection system are short wiring times and reliable, simple handling. Compared to the 3-conductor tension clamps, the direct push in system provides up to a 50% time saving when connecting the conductor (3.5 sec. per conductor).

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The stripped solid conductor is simply pushed into the terminal as far as it will go – that's all there is to it. No tools are required, and a reliable, vibration-proof, gas-proof connection is created. Even flexible conductors with crimped wire end ferrules or ultrasonic welded conductors can be connected without any problems.



Product overview

The new 3-conductor installation terminals featuring direct push in technology are ideal in combination with the new single-storey installation terminals in tension clamp technology. The position on the busbar is identical. This results in a highly efficient portfolio primarily for building-service installation.

Rated cross-sectional area	1.5 mm ² / 2.5 mm ² / 4 mm ²	6 mm ² / 10 mm ²
3-conductor "Push In" installation terminals with 10x3 busbar		
NT / L / PE	●	○
L / L	●	○
N / L / PE	●	○
L / L / PE	●	○
N / L	●	○
L	●	○
3-conductor "Push In" installation terminals with ZQV Cross-connection		
NT / L / PE	○	
L / L	○	
N / L / PE	○	
L / L / PE	○	

○ = Planned addition 2004

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Z-series installation terminals (see chapter C)

Rated cross-sectional area	2.5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²	35 mm ²
Feed-through terminal	●	●	●	●	●	
Protective earth terminal	●	●	●	●	●	
Neutral terminal	●	●	●	●	●	●

In detail

The connection

The pressure spring for the conductor connection is held separately in a housing. The Push In connections ensure separation of mechanical and electrical functions.

- Rated current 32 A
- Direct Push In connection of solid and flexible conductors with wire end ferrule



Plug-in cross-connections

Potential distribution is quick and easy with the ZQV plug-in Cross-connection.

- Standard Cross-connection ZQV
- Continuous Cross-connection for own assembly
- 400 V even with Cross-connection



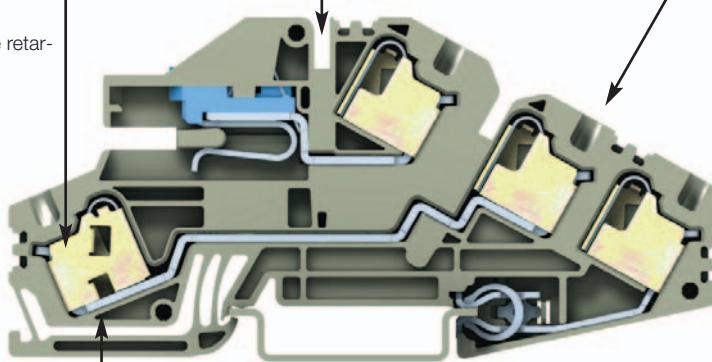
Easy handling

The simple Push In technology for solid and flexible conductors with wire end ferrule leads to considerable reductions in wiring times.

- No additional tools necessary
- Easy to handle when installing in confined areas
- TOP connector for conductor and spring release

Wemid insulation material

- Resistant to tracking current (CTI 600)
- Temperature resistant to 120°C
- Flammability class V0 acc. to UL94
- Halogen-free and phosphorous-free flame retardant



Reliable contacts

- Stainless steel spring continuously provides the necessary contact force between conductor and busbar. Higher conductor pull-out forces than with tension clamps.
- Copper busbar with tin alloy, adapts neatly to the conductor, guaranteeing extremely minimal voltage loss.

Safe use

The "Push In" contact is designed to prevent incorrect use in many cases.

- Spring path limited by **pressure spring stopper** (protects the pressure spring). This precisely defines the screwdriver position in combination with the plastic enclosure.
- The **conductor stopper** positions the end of the conductor within the connection chamber. It supports the pressure spring for large bending radii outside the terminal and secures the contact to the busbar.

Wiring in confined spaces

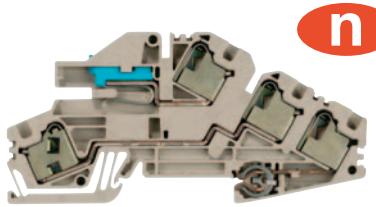
The 3-conductor installation terminals with direct Push In technology allow for the wiring of alternating current and three-phase circuits in the most confined spaces. Especially when the installation space is limited in width, a high wiring density can be achieved without any difficulty.

Standards

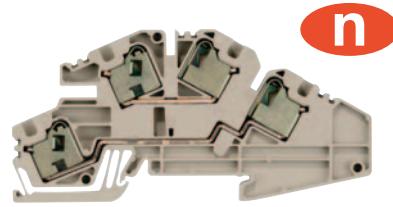
The excellent reliability of Weidmüller's contacts and systems is confirmed by type testing to IEC 60947-7 and by supplementary tests. In addition, product quality undergoes strict testing in our Quality Assurance department (certified to DIN ISO 9002).

Push In installation terminals

PDL4 S/N/L/PE

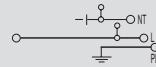
2.5 mm²

PDL4 S/L/L

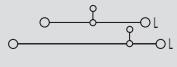
2.5 mm²

Width x length x height with TS35x7.5 mm
max. current/max. cond. cross-section A/mm²
max. clamping range mm²

5.1x 100 x 48.5
32/4
0.5...4.0



5.1 x 100 x 48.5
32/4
0.5...4.0



Technical data

Rating data (IEC)

Rated voltage	V
Rated current	A
Rated cross-sectional area	mm ²
Rated surge voltage / pollution severity	kV/-
Plug gauge acc. to IEC 60 947-1 / flammability class UL 94	

IEC 60947-7-1(-2) / VDE 0611-4

400
32
4
8 / 3
A 3 / V0

IEC 60947-7-1(-2) / VDE 0611-4

400
32
4
8 / 3
A 3 / V0

Approvals

Clamping conductors (H05V/H07V)

Solid/stranded	mm ²
Flexible/flexible with wire end ferrules	mm ²
Stripping length / blade size	mm

0.5...4.0 / ----
0.5...4.0 / 0.5...4.0
13 / 3.0 x 0.5

0.5...4.0 / ----
0.5...4.0 / 0.5...4.0
13 / 3.0 x 0.5

Remarks:

Order data

Design	Type	Qty	Order No.
dark beige Wemid	PDL4 S/N/L/PE	50	1837060000

Remarks:	L-PE / L-N : 250 V
	1847610000 (L), 1847620000 (N), 1847630000 (N/L) N blue indicated, Qty 50

Type	Qty	Order No.
PDL4 S/L/L	50	1837030000

Accessories

Cross-connection

	(ZQV 2.5/4 plugged in)	2-pole
		3-pole
		4-pole
		10-pole
		50-pole

Type	Current [A]	Qty	Order No.
ZQV 2.5/2	24	60	1608860000
ZQV 2.5/3	24	60	1608870000
ZQV 2.5/4	24	60	1608880000
ZQV 2.5/10	24	20	1608940000
ZQV 2.5/50	24	10	1697540000

Type	Current [A]	Qty	Order No.
ZQV 2.5/2	24	60	1608860000
ZQV 2.5/3	24	60	1608870000
ZQV 2.5/4	24	60	1608880000
ZQV 2.5/10	24	20	1608940000
ZQV 2.5/50	24	10	1697540000

End plate

dark beige Wemid / blue Wemid	Width [mm]
	PAP/PDL4 S 1.5 20 1837070000

Width [mm]
3.0 20 1837090000
3.0 20 1837080000

Width [mm]

3.0 20 1837090000
3.0 20 1837080000

Retaining plate (necessary every 20 cm)

	blue Wemid for 10 x 3
	blue Wemid for 10 x 3

Width [mm]

PHP/PDL4 S 3.0 20 1837090000
PHP/PDL4 S SO 3.0 20 1837080000

Width [mm]

3.0 20 1837090000
3.0 20 1837080000

End bracket

dark beige	Width [mm]
	ZEW 35 6.0 20 9540000000

Width [mm]

6.0 20 9540000000
6.0 20 9540000000

Width [mm]

6.0 20 9540000000
6.0 20 9540000000

Screwdriver

Standard	Width [mm]
	SDI 0.4 x 2.5 x 75 10 9008370000

Width [mm]

10 9008370000
10 9008370000

Width [mm]

10 9008370000
10 9008370000

Busbar 10 x 3

	Current [A]
	SSCH 10x3 CU 140 1m 0348900000

Current [A]

140 1m 0348900000
140 1m 0348900000

Current [A]

140 1m 0348900000
140 1m 0348900000

Tension clamp for the supply of 10 x 3 busbar

Rigid/flexible	0.5 - 6 / 4 mm ²	Width [mm]
Rigid and flexible	6 - 16 mm ²	ZB 4 6.0 50 0316500000
Flexible	16 - 35 mm ²	ZB 16 10.0 50 0316600000

Width [mm]

ZB 4 6.0 50 0316500000
ZB 16 10.0 50 0316600000

Width [mm]

ZB 4 6.0 50 0316500000
ZB 16 10.0 50 0316600000

Marking system

Tags	Width [mm]
	DEK 5 WS 12/5

Width [mm]

WS 12/5
WS 12/5

Width [mm]

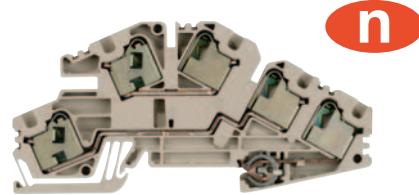
WS 12/5
WS 12/5

Push In installation terminals

PDL4 S/N/L/PE

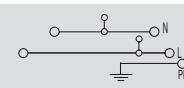
2,5 mm²

PDL4 S/L/L/PE

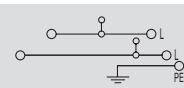
2,5 mm²

Width x length x height with TS35x7.5 mm
max. current/max. cond. cross-section A/mm²
max. clamping range mm²

5.1x 100 x 48.5
32/4
0.5...4.0



5.1 x 100 x 48.5
32/4
0.5...4.0



Technical data

Rating data (IEC)

Rated voltage	V
Rated current	A
Rated cross-sectional area	mm ²
Rated surge voltage / pollution severity	kV/-
Plug gauge acc. to IEC 60 947-1 / flammability class UL 94	
Approvals	

IEC 60947-7-1(-2) / VDE 0611-4

Clamping conductors (H05V/H07V)

Solid/stranded	mm ²
Flexible/flexible with wire end ferrules	mm ²
Stripping length / blade size	mm

Remarks:

Order data

Design	Type	Qty	Order No.
dark beige Wemid	PDL4 S/N/L/PE	50	1837050000

Remarks:	L-PE / L-N : 250 V
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Accessories

Cross-connection	Type	Current [A]	Qty	Order No.
2-pole	ZQV 2.5/2	24	60	1608860000
3-pole	ZQV 2.5/3	24	60	1608870000
4-pole	ZQV 2.5/4	24	60	1608880000
10-pole	ZQV 2.5/10	24	20	1608940000
50-pole	ZQV 2.5/50	24	10	1697540000

End plate	Type	Width [mm]	Qty	Order No.
dark beige Wemid / blue Wemid	PAP/PDL4 S	1.5	20	1837070000

Retaining plate (necessary every 20 cm)	Type	Width [mm]	Qty	Order No.
blue Wemid for 10 x 3	PHP/PDL4 S	3.0	20	1837090000
blue Wemid for 10 x 3	PHP/PDL4 S SO	3.0	20	1837080000

End bracket	Type	Width [mm]	Qty	Order No.
dark beige	ZEW 35	6.0	20	9540000000

Screwdriver	Type	Width [mm]	Qty	Order No.
Standard	SDI 0.4 x 2.5 x 75	10	9008370000	

Busbar 10 x 3	Type	Current [A]	Qty	Order No.
	SSCH 10x3 CU	140	1m	0348900000

Tension clamp for the supply of 10 x 3 busbar	Type	Width [mm]	Qty	Order No.
Rigid/flexible	ZB 4	6.0	50	0316500000
Rigid and flexible	ZB 16	10.0	50	0316600000
Flexible	ZB 35	14.0	20	0266500000

Marking system	Type	Width [mm]	Qty	Order No.
Tags	DEK 5	WS 12/5		

Remarks	Type	Width [mm]	Qty	Order No.
		Cross-connection ZQV cannot be used to bridge contacts of another potential		

Articles with coloured order number are kept permanently in stock at the central warehouse in Germany.
Delivery times see page X.2

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