

2904724

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VIP power cabling, universal front adapter for connection to all popular 20-pos. SIMATIC S7-300 I/O modules, via 20 individual wires in rope structure, not assembled (field connection, e.g., via 20 modular terminal blocks)

Commercial data

Item number	2904724
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CK232S
Catalog page	Page 499 (C-5-2019)
GTIN	4046356882613
Weight per piece (including packing)	282.1 g
Weight per piece (excluding packing)	282.1 g
Country of origin	DE

VIP-PA-PWR/20XOE/ 1,0M/S7 - Front adapter



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Technical data

Product properties

Product type	Front adapter
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Insulation characteristics

Overvoltage category	II
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Electrical properties

Operating voltage (AC/DC)	≤ 250 V AC/DC
Nominal operating mode	100% operating factor
Current (per single-core wire, 40°C)	≤ 6 A
Current (per single-core wire, 60°C)	≤ 4 A
Current (per single-core wire, 75°C)	≤ 750 mA
Current (Total current per cable, 40°C)	≤ 20 A
Current (Total current per cable, 60°C)	≤ 16 A
Rated insulation voltage	260 V
Rated surge voltage	2.3 kV (Basic insulation)

Supported controller SIEMENS S7-300 / ET 200 M

Suitable I/O card	6ES7321-1BH02-0AA0
	6ES7321-1BH10-0AA0
	6ES7321-7BH01-0AB0
	6ES7321-1BH50-0AA0
	6ES7321-1CH20-0AA0
	6ES7321-1FH00-0AA0
	6ES7321-1FF01-0AA0
	6ES7322-1FL00-0AA0
	6ES7322-1BH01-0AA0
	6ES7322-1BH10-0AA0
	6ES7322-1FH00-0AA0
	6ES7322-1BF01-0AA0
	6ES7322-8BF00-0AB0
	6ES7322-1CF00-0AA0
	6ES7322-1FF01-0AA0
	6ES7322-1HH01-0AA0
	6ES7322-1HF01-0AA0
	6ES7323-1BH01-0AA0
	6ES7327-1BH00-0AB0
	6ES7331-7HF01-0AB0
	6ES7331-7KF02-0AB0
	6ES7331-7KB02-0AB0
	6ES7332-7ND02-0AB0
	6ES7332-5HD01-0AB0

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6ES7332-5HB01-0AB0
6ES7334-0CE01-0AA0
6ES7334-0KE00-0AB0
6ES7331-7TF01-0AB0
6ES7332-8TF01-0AB0
6ES7336-4GE00-0AB0

Connection data

Controller level

Connection method	Plug-in connection
Note	Can be plugged onto 20-pos. I/O modules

Field level

Connection method	open cable end
Number of connections	20
Number of positions	1

Dimensions

Cable

Length	1 m
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Cable/line

Number of positions	20
Shielded	no
Conductor type	Round cable set
Conductor structure signal line	16x 1.80 mm
AWG signal line	21
Conductor cross section	20x 0.5 mm ²
Outer sheath, material	Semi-rigid PVC
Conductor material	Bare Cu litz wires
Halogen-free	no

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 80 °C

Standards and regulations

Standards/regulations	DIN EN 50178
	IEC 60664

Mounting

Mounting position	any
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VIP-PA-PWR/20XOE/ 1,0M/S7 - Front adapter



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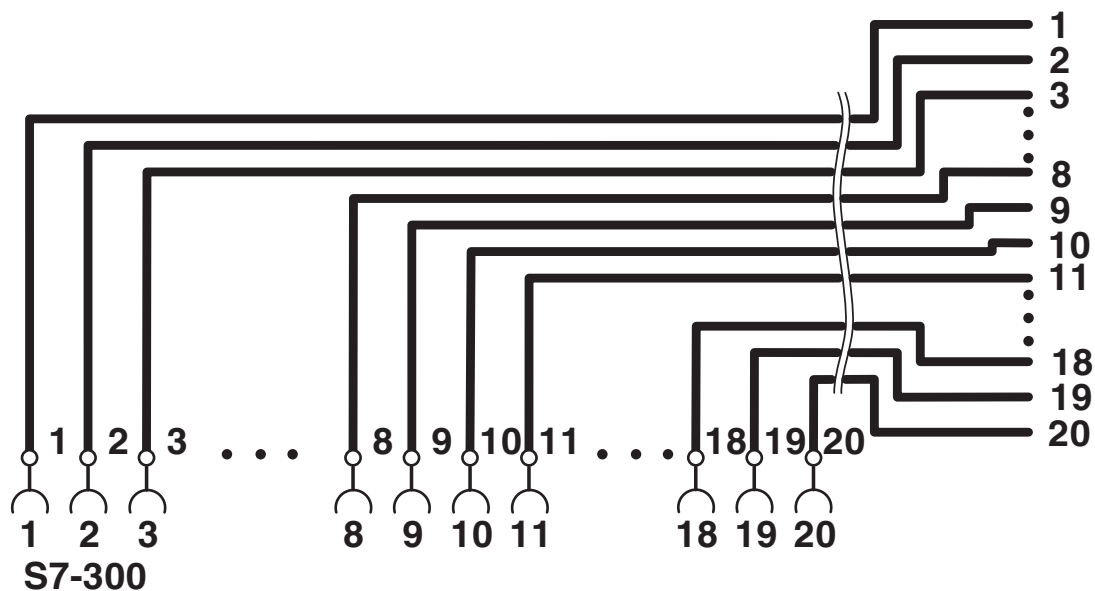
<https://www.phoenixcontact.com/us/products/2904724>

Notes

Notes on operation	For proper use, the specifications of the installation directive (see Downloads) must be observed. For applications or use with third-party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met.
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Drawings

Circuit diagram



VIP-PA-PWR/20XOE/ 1,0M/S7 - Front adapter



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Classifications

ECLASS

ECLASS-11.0	27242292
ECLASS-13.0	27242292

UNSPSC

UNSPSC 21.0	32151601
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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Accessories

UT 2,5 - Feed-through terminal block

3044076

<https://www.phoenixcontact.com/us/products/3044076>



Feed-through terminal block, nom. voltage: 1000 V, nominal current: 24 A, number of connections: 2, connection method: Screw connection, Rated cross section: 2.5 mm², cross section: 0.14 mm² - 4 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

PT 1,5/S - Feed-through terminal block

3208100

<https://www.phoenixcontact.com/us/products/3208100>



Feed-through terminal block, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 2, connection method: Push-in connection, 1 level, Rated cross section: 1.5 mm², cross section: 0.14 mm² - 1.5 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

VIP-PA-PWR/20XOE/ 1,0M/S7 - Front adapter



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PT 2,5 - Feed-through terminal block

3209510

<https://www.phoenixcontact.com/us/products/3209510>

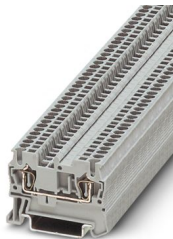


Feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, number of connections: 2, number of positions: 1, connection method: Push-in connection, Rated cross section: 2.5 mm², cross section: 0.14 mm² - 4 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

ST 1,5 - Feed-through terminal block

3031076

<https://www.phoenixcontact.com/us/products/3031076>



Feed-through terminal block, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 2, connection method: Spring-cage connection, 1 level, Rated cross section: 1.5 mm², cross section: 0.08 mm² - 1.5 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

VIP-PA-PWR/20XOE/ 1,0M/S7 - Front adapter



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ST 2,5 - Feed-through terminal block

3031212

<https://www.phoenixcontact.com/us/products/3031212>

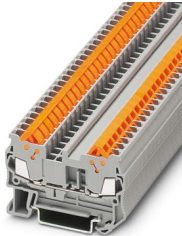


Feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, number of connections: 2, connection method: Spring-cage connection, Rated cross section: 2.5 mm², cross section: 0.08 mm² - 4 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

QTC 1,5 - Feed-through terminal block

3205019

<https://www.phoenixcontact.com/us/products/3205019>



Feed-through terminal block, nom. voltage: 800 V, nominal current: 17.5 A, number of connections: 2, connection method: Quick connection, 1 level, Rated cross section: 1.5 mm², cross section: 0.25 mm² - 1.5 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

VIP-PA-PWR/20XOE/ 1,0M/S7 - Front adapter



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QTC 2,5 - Feed-through terminal block

3206416

<https://www.phoenixcontact.com/us/products/3206416>

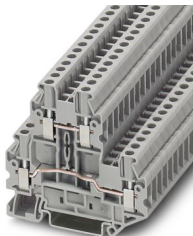


Feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, number of connections: 2, connection method: Quick connection, 1 level, Rated cross section: 2.5 mm², cross section: 0.5 mm² - 2.5 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

UTTB 2,5 - Double-level terminal block

3044636

<https://www.phoenixcontact.com/us/products/3044636>



Double-level terminal block, nom. voltage: 500 V, nominal current: 24 A, connection method: Screw connection, Rated cross section: 2.5 mm², cross section: 0.14 mm² - 4 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

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PTTB 1,5/S - Double-level terminal block

3208511

<https://www.phoenixcontact.com/us/products/3208511>



Double-level terminal block, nom. voltage: 500 V, nominal current: 16 A, connection method: Push-in connection, 1st and 2nd level, Rated cross section: 1.5 mm², cross section: 0.14 mm² - 1.5 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

PTTB 2,5 - Double-level terminal block

3210567

<https://www.phoenixcontact.com/us/products/3210567>



Double-level terminal block, nom. voltage: 500 V, nominal current: 22 A, connection method: Push-in connection, 1st and 2nd level, Rated cross section: 2.5 mm², cross section: 0.14 mm² - 4 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

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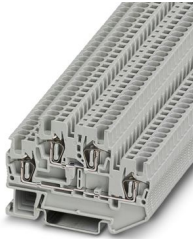
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STTB 1,5 - Double-level spring-cage terminal block

3031157

<https://www.phoenixcontact.com/us/products/3031157>

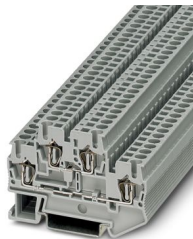


Double-level spring-cage terminal block, nom. voltage: 500 V, nominal current: 17.5 A, connection method: Spring-cage connection, 1st and 2nd level, Rated cross section: 1.5 mm², cross section: 0.08 mm² - 1.5 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

STTB 2,5 - Double-level spring-cage terminal block

3031270

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Double-level spring-cage terminal block, nom. voltage: 500 V, nominal current: 22 A, connection method: Spring-cage connection, Rated cross section: 2.5 mm², cross section: 0.08 mm² - 4 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

VIP-PA-PWR/20XOE/ 1,0M/S7 - Front adapter



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QTTCB 1,5 - Double-level terminal block

3205116

<https://www.phoenixcontact.com/us/products/3205116>

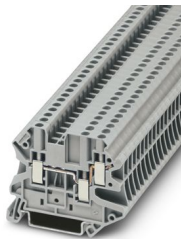


Double-level terminal block, nom. voltage: 500 V, nominal current: 17.5 A, connection method: Quick connection, 1st and 2nd level, Rated cross section: 1.5 mm², cross section: 0.25 mm² - 1.5 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

UT 2,5-TWIN - Feed-through terminal block

3044513

<https://www.phoenixcontact.com/us/products/3044513>



Feed-through terminal block, nom. voltage: 500 V, nominal current: 24 A, number of connections: 3, connection method: Screw connection, 1 level, Rated cross section: 2.5 mm², cross section: 0.14 mm² - 4 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

VIP-PA-PWR/20XOE/ 1,0M/S7 - Front adapter



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PT 1,5/S-TWIN - Feed-through terminal block

3208155

<https://www.phoenixcontact.com/us/products/3208155>

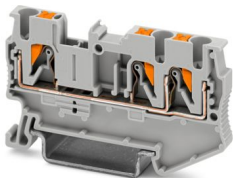


Feed-through terminal block, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 3, connection method: Push-in connection, 1 level, Rated cross section: 1.5 mm², cross section: 0.14 mm² - 1.5 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

PT 2,5-TWIN - Feed-through terminal block

3209549

<https://www.phoenixcontact.com/us/products/3209549>



Feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, number of connections: 3, connection method: Push-in connection, Rated cross section: 2.5 mm², cross section: 0.14 mm² - 4 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

VIP-PA-PWR/20XOE/ 1,0M/S7 - Front adapter



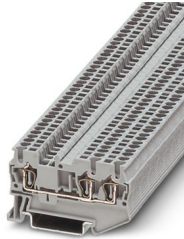
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<https://www.phoenixcontact.com/us/products/2904724>

ST 1,5-TWIN - Feed-through terminal block

3031128

<https://www.phoenixcontact.com/us/products/3031128>

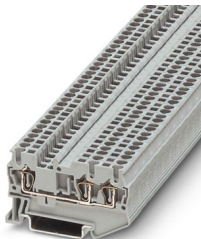


Feed-through terminal block, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 3, connection method: Spring-cage connection, Rated cross section: 1.5 mm², cross section: 0.08 mm² - 1.5 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

ST 2,5-TWIN - Feed-through terminal block

3031241

<https://www.phoenixcontact.com/us/products/3031241>



Feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, number of connections: 3, connection method: Spring-cage connection, Rated cross section: 2.5 mm², cross section: 0.08 mm² - 4 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

VIP-PA-PWR/20XOE/ 1,0M/S7 - Front adapter

2904724

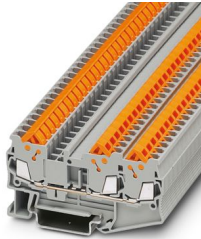
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QTC 1,5-TWIN - Feed-through terminal block

3205048

<https://www.phoenixcontact.com/us/products/3205048>



Feed-through terminal block, nom. voltage: 800 V, nominal current: 17.5 A, number of connections: 3, connection method: Quick connection, 1 level, Rated cross section: 1.5 mm², cross section: 0.25 mm² - 1.5 mm², mounting type: NS 35/7,5, NS 35/7,5, color: gray

QTC 2,5-TWIN - Feed-through terminal block

3206445

<https://www.phoenixcontact.com/us/products/3206445>



Feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, number of connections: 3, connection method: Quick connection, 1 level, Rated cross section: 2.5 mm², cross section: 0.5 mm² - 2.5 mm², mounting type: NS 35/7,5, NS 35/7,5, color: gray

VIP-PA-PWR/20XOE/ 1,0M/S7 - Front adapter

2904724

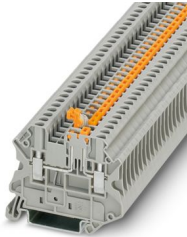
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UT 2,5-MT - Knife-disconnect terminal block

3046362

<https://www.phoenixcontact.com/us/products/3046362>

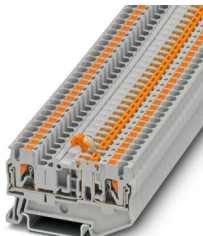


Knife-disconnect terminal block, nom. voltage: 400 V, nominal current: 20 A, Thermal continuous current I_{th} : 20 A, connection method: Screw connection, Rated cross section: 2.5 mm², cross section: 0.14 mm² - 4 mm², mounting: NS 35/7,5, NS 35/15, color: gray

PT 2,5-MT - Knife-disconnect terminal block

3210156

<https://www.phoenixcontact.com/us/products/3210156>



Knife-disconnect terminal block, nom. voltage: 400 V, nominal current: 20 A, connection method: Push-in connection, Rated cross section: 2.5 mm², cross section: 0.14 mm² - 4 mm², mounting: NS 35/7,5, NS 35/15, color: gray

VIP-PA-PWR/20XOE/ 1,0M/S7 - Front adapter

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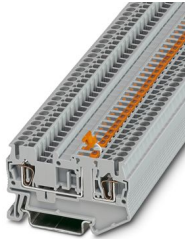
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ST 2,5-MT - Knife-disconnect terminal block

3036343

<https://www.phoenixcontact.com/us/products/3036343>

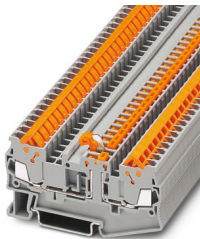


Knife-disconnect terminal block, nom. voltage: 400 V, nominal current: 20 A, 1 level, connection method: Spring-cage connection, Rated cross section: 2.5 mm², cross section: 0.08 mm² - 4 mm², mounting: NS 35/7,5, NS 35/15, color: gray

QTC 1,5-MT - Knife-disconnect terminal block

3205103

<https://www.phoenixcontact.com/us/products/3205103>



Knife-disconnect terminal block, nom. voltage: 400 V, nominal current: 17.5 A, 1 level, connection method: Quick connection, Rated cross section: 1.5 mm², cross section: 0.25 mm² - 1.5 mm², mounting: NS 35/7,5, NS 35/15, color: gray

VIP-PA-PWR/20XOE/ 1,0M/S7 - Front adapter

2904724

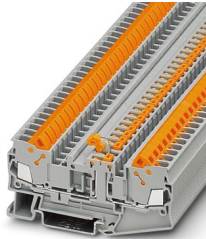
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QTC 2,5-MT - Knife-disconnect terminal block

3206487

<https://www.phoenixcontact.com/us/products/3206487>



Knife-disconnect terminal block, nom. voltage: 400 V, nominal current: 20 A, 1 level, connection method: Quick connection, Rated cross section: 2.5 mm², cross section: 0.5 mm² - 2.5 mm², mounting: NS 35/7,5, NS 35/15, color: gray

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