VIP-PA-PWR/4X10COMBI/10,0M/S7 - Front adapter

2904712

https://www.phoenixcontact.com/us/products/2904712

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VIP power cabling, universal front adapter for connecting all common 40-pos. SIMATIC S7-300 I/O modules, via four cables each with a 10-pos. COMBI connector, pitch: 5.2 mm

Commercial data

Item number	2904712
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CK232S
Catalog page	Page 496 (C-5-2019)
GTIN	4046356882545
Weight per piece (including packing)	5,417 g
Weight per piece (excluding packing)	333.33 g
Country of origin	DE

VIP-PA-PWR/4X10COMBI/10,0M/S7 - Front adapter

Technical data

Product properties

Product type	Front adapter

Insulation characteristics	
Insulation	Basic insulation

Insulation characteristics	
Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

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 (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	4 kV

Supported controller SIEMENS S7-300 / ET 200 M	
Suitable I/O card	6ES7321-1BL00-0AA0
	6ES7321-1EL00-0AA0
	6ES7321-1CH00-0AA0
	6ES7321-1FF10-0AA0
	6ES7322-1BL00-0AA0
	6ES7322-8BH10-0AB0
	6ES7322-5GH00-0AB0
	6ES7322-5FF00-0AB0
	6ES7322-5HF00-0AB0
	6ES7322-1HF10-0AA0
	6ES7323-1BL00-0AA0
	6ES7331-7NF00-0AB0
	6ES7331-7NF10-0AB0
	6ES7331-1KF02-0AB0
	6ES7331-7PF01-0AB0
	6ES7331-7PF11-0AB0
	6ES7331-7PE10-0AB0
	6ES7332-5HF00-0AB0
	6ES7326-1BK02-0AB0
	6ES7326-1RF00-0AB0
	6ES7326-2BF41-0AB0

	6ES7326-2BF01-0AB0
	6ES7326-2BF10-0AB0
	6ES7336-1HE00-0AB0

Connection data

Controller level

Connection method	Plug-in connection
Note	Can be plugged onto 40-pos. I/O modules

Field level

Connection method	COMBICON connectors
Number of connections	4
Number of positions	10
Pitch	5.2 mm

Dimensions

Cable

Length	10 m

Cable/line

Number of positions	10
Shielded	no
Conductor type	Round cable set
Conductor structure signal line	16x 1.80 mm
AWG signal line	21
Conductor cross section	10x 0.5 mm²
Outer sheath, material	PVC
External sheath, color	gray
Conductor material	Bare Cu litz wires
Cable resistance	≤ 40 Ω/km
Insulation resistance	≥ 20 MΩ*km
Halogen-free	no
Flame resistance	UL VW-1

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

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

Connection diagram

Pin S7-300	Wire color	PIN COMBI	
1	white	1	
2	brown	2	
3	green	3	
4	yellow	4	
5	gray	5	
6	pink	6	
7	blue	7	
8	red	8	
9	black	9	
10	violet	10	**Plug 1**
11	white	11	
12	brown	12	
13	green	13	
14	yellow	14	
15	gray	15	
16	pink	16	
17	blue	17	
18	red	18	
19	black	19	
20	violet	20	**Plug 2**
21	white	21	
22	brown	22	
23	green	23	
24	yellow	24	
25	gray	25	
26	pink	26	
27	blue	27	
28	red	28	
29	black	29	
30	violet	30	**Plug 3**
31	white	31	
32	brown	32	
33	green	33	
34	yellow	34	
35	gray	35	
36	pink	36	
37	blue	37	
38	red	38	
39	black	39	
40	violet	40	**Plug 4**

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Circuit diagram

COMBI

| 21 22 23 24 25 26 27 28 29 30 | 31 32 33 34 35 36 37 38 39 40 |

| 21 22 23 24 25 26 27 28 29 30 | 31 32 33 34 35 36 37 38 39 40 |

S7 - 300

S7 - 300

| 1 2 3 4 5 6 7 8 9 10 | 11 12 13 14 15 16 17 18 19 20 |

| 1 2 3 4 5 6 7 8 9 10 | 11 12 13 14 15 16 17 18 19 20 |
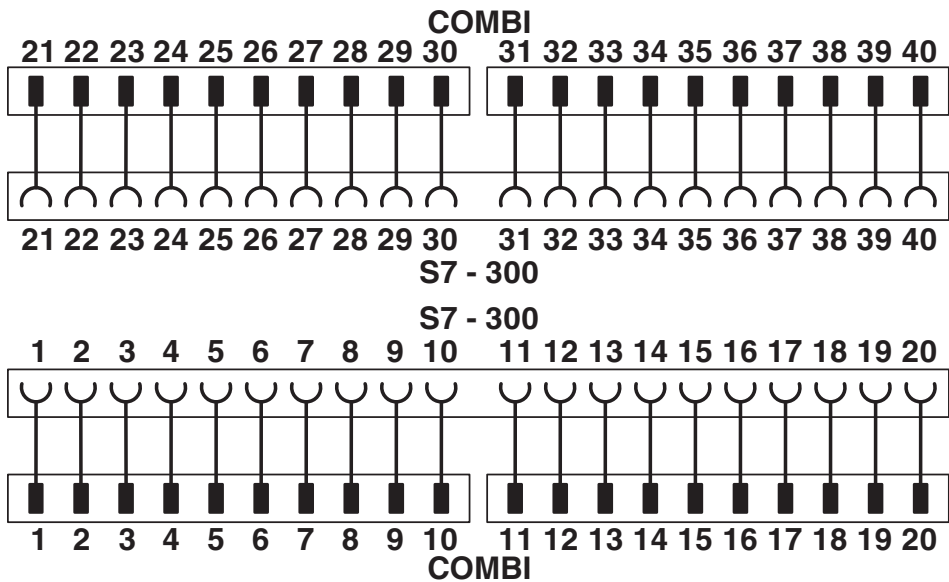
COMBI

Dimensional drawing
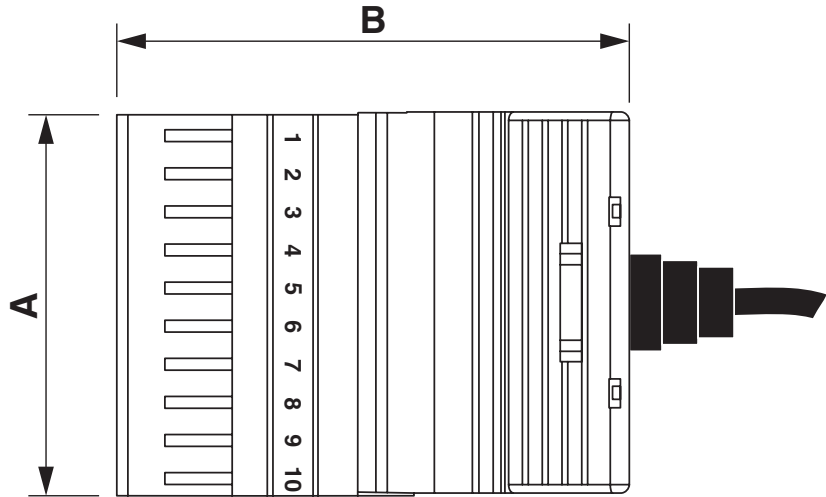
	A	B
...4X10COMBI...	52	70
...2X10COMBI...	52	70
...4X10 PT...	35	62
...2X10 PT...	35	62

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Classifications

ECLASS

ECLASS-11.0	27242292
ECLASS-13.0	27242292

UNSPSC

UNSPSC 21.0	32151601

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)

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Accessories

UT 2,5/1P - Feed-through terminal block

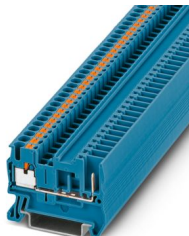3045017
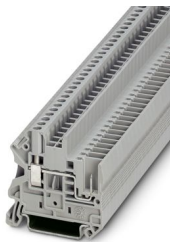
https://www.phoenixcontact.com/us/products/3045017

Feed-through terminal block, nom. voltage: 500 V, nominal current: 24 A, number of connections: 2, connection method: Screw/plug-in connection, Rated cross section: 2.5 mm^2, cross section: 0.14 mm^2 - 4 mm^2, mounting type: NS 35/7,5, NS 35/15, color: gray

UT 2,5/1P BU - Feed-through terminal block

3045020

https://www.phoenixcontact.com/us/products/3045020

Feed-through terminal block, nom. voltage: 500 V, nominal current: 24 A, number of connections: 2, connection method: Screw/plug-in connection, Rated cross section: 2.5 mm^2, cross section: 0.14 mm^2 - 4 mm^2, mounting type: NS 35/7,5, NS 35/15, color: blue

PT 2,5/1P - Feed-through terminal block

3210033

https://www.phoenixcontact.com/us/products/3210033

Feed-through terminal block, nom. voltage: 500 V, nominal current: 24 A, number of connections: 2, connection method: Push-in / plug connection, Rated cross section: 2.5 mm^2, cross section: 0.14 mm^2 - 4 mm^2, mounting type: NS 35/7,5, NS 35/15, color: gray

PT 2,5/1P BU - Feed-through terminal block

3210046

https://www.phoenixcontact.com/us/products/3210046

Feed-through terminal block, nom. voltage: 500 V, nominal current: 24 A, number of connections: 2, connection method: Push-in / plug connection, Rated cross section: 2.5 mm^2, cross section: 0.14 mm^2 - 4 mm^2, mounting type: NS 35/7,5, NS 35/15, color: blue

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QTC 1,5/ 1P - Feed-through terminal block

3050073

https://www.phoenixcontact.com/us/products/3050073

Feed-through terminal block, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 2, connection method: Fast/plug-in connection, 1st level connection left, Rated cross section: 1.5 mm^2, cross section: 0.25 mm^2 - 1.5 mm^2, 1st level connection right, mounting type: NS 35/7,5, NS 35/15, color: gray

QTC 1,5/ 1P BU - Feed-through terminal block

3050086

https://www.phoenixcontact.com/us/products/3050086

Feed-through terminal block, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 2, connection method: Fast/plug-in connection, 1st level connection left, Rated cross section: 1.5 mm^2, cross section: 0.25 mm^2 - 1.5 mm^2, 1st level connection right, mounting type: NS 35/7,5, NS 35/15, color: blue

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UT 2,5-TWIN/1P - Feed-through terminal block

3060490
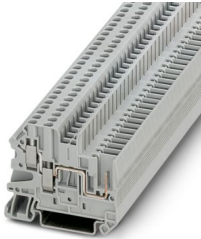
https://www.phoenixcontact.com/us/products/3060490

Feed-through terminal block, nom. voltage: 500 V, nominal current: 24 A, number of connections: 3, number of positions: 1, connection method: Screw/plug-in connection, Rated cross section: 2.5 mm^2, cross section: 0.14 mm^2 - 4 mm^2, mounting type: NS 35/7,5, NS 35/15, color: gray

UT 2,5-TWIN/1P BU - Feed-through terminal block

3060500

https://www.phoenixcontact.com/us/products/3060500

Feed-through terminal block, nom. voltage: 500 V, nominal current: 24 A, number of connections: 3, number of positions: 1, connection method: Screw/plug-in connection, Rated cross section: 2.5 mm^2, cross section: 0.14 mm^2 - 4 mm^2, mounting type: NS 35/7,5, NS 35/15, color: blue

VIP-PA-PWR/4X10COMBI/10,0M/S7 - Front adapter

2904712

https://www.phoenixcontact.com/us/products/2904712

PT 2,5-TWIN/1P - Feed-through terminal block

3209633

https://www.phoenixcontact.com/us/products/3209633

Feed-through terminal block, nom. voltage: 500 V, nominal current: 24 A, number of connections: 3, number of positions: 1, connection method: Push-in / plug connection, Rated cross section: 2.5 mm^2, cross section: 0.14 mm^2 - 4 mm^2, mounting type: NS 35/7,5, NS 35/15, color: gray

PT 2,5-TWIN/1P BU - Feed-through terminal block

3209646

https://www.phoenixcontact.com/us/products/3209646

Feed-through terminal block, nom. voltage: 500 V, nominal current: 24 A, number of connections: 3, number of positions: 1, connection method: Push-in / plug connection, Rated cross section: 2.5 mm^2, cross section: 0.14 mm^2 - 4 mm^2, mounting type: NS 35/7,5, NS 35/15, color: blue

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ST 2,5-TWIN-MT/1P - Knife-disconnect terminal block

3040766

https://www.phoenixcontact.com/us/products/3040766

Knife-disconnect terminal block, nom. voltage: 400 V, nominal current: 20 A, 1st level connection left, connection method: Spring-cage/plug-in connection, Rated cross section: 2.5 mm^2, cross section: 0.08 mm^2 - 4 mm^2, mounting: NS 35/7,5, NS 35/15, color: gray

ST 2,5-TWIN-TG/1P - Disconnect terminal block

3040847

https://www.phoenixcontact.com/us/products/3040847

Disconnect terminal block, The max. load current must not be exceeded by the total current of all connected conductors.
Current and voltage are determined by the plug used., nom. voltage: 400 V, nominal current: 20 A, 1st level connection left, connection method: Spring-cage/plug-in connection, Rated cross section: 2.5 mm^2, cross section: 0.08 mm^2 - 4 mm^2, mounting: NS 35/7,5, NS 35/15, color: gray

VIP-PA-PWR/4X10COMBI/10,0M/S7 - Front adapter

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PT 2,5-QUATTRO/2P - Feed-through terminal block

3209662
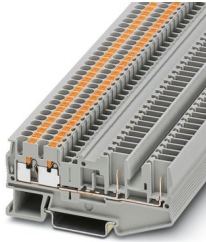
https://www.phoenixcontact.com/us/products/3209662

Feed-through terminal block, nom. voltage: 500 V, nominal current: 24 A, number of connections: 4, connection method: Push-in / plug connection, 1 level, Rated cross section: 2.5 mm^2, cross section: 0.14 mm^2 - 4 mm^2, mounting type: NS 35/7,5, NS 35/15, color: gray

PT 2,5-QUATTRO/2P BU - Feed-through terminal block

3209675

https://www.phoenixcontact.com/us/products/3209675

Feed-through terminal block, nom. voltage: 500 V, nominal current: 24 A, number of connections: 4, connection method: Push-in / plug connection, 1 level, Rated cross section: 2.5 mm^2, cross section: 0.14 mm^2 - 4 mm^2, mounting type: NS 35/7,5, NS 35/15, color: blue

VIP-PA-PWR/4X10COMBI/10,0M/S7 - Front adapter

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UTTB 2,5/2P - Double-level terminal block

3060351
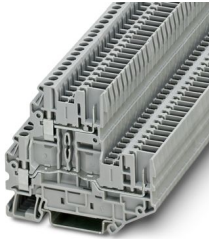
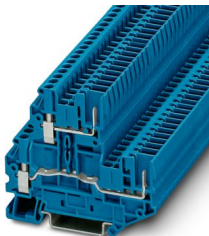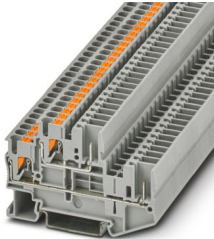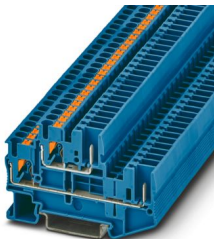https://www.phoenixcontact.com/us/products/3060351

Double-level terminal block, Current and voltage are determined by the plug used., nom. voltage: 500 V, nominal current: 24 A, connection method: Screw/plug-in connection, Rated cross section: 2.5 mm^2, cross section: 0.14 mm^2 - 4 mm^2, mounting type: NS 35/7,5, NS 35/15, color: gray

UTTB 2,5/2P BU - Double-level terminal block

3060364

https://www.phoenixcontact.com/us/products/3060364

Double-level terminal block, Current and voltage are determined by the plug used., nom. voltage: 500 V, nominal current: 24 A, connection method: Screw/plug-in connection, Rated cross section: 2.5 mm^2, cross section: 0.14 mm^2 - 4 mm^2, mounting type: NS 35/7,5, NS 35/15, color: blue

VIP-PA-PWR/4X10COMBI/10,0M/S7 - Front adapter

2904712

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PTTB 2,5/2P - Double-level terminal block

3210871

https://www.phoenixcontact.com/us/products/3210871

Double-level terminal block, Current and voltage are determined by the plug used., nom. voltage: 500 V, nominal current: 22 A, connection method: Push-in / plug connection, Rated cross section: 2.5 mm^2, cross section: 0.14 mm^2 - 4 mm^2, mounting type: NS 35/7,5, NS 35/15, color: gray

PTTB 2,5/2P BU - Double-level terminal block

3210884

https://www.phoenixcontact.com/us/products/3210884

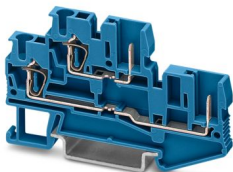Double-level terminal block, Current and voltage are determined by the plug used., nom. voltage: 500 V, nominal current: 22 A, connection method: Push-in / plug connection, 1st and 2nd level, Rated cross section: 2.5 mm^2, cross section: 0.14 mm^2 - 4 mm^2, mounting type: NS 35/7,5, NS 35/15, color: blue

VIP-PA-PWR/4X10COMBI/10,0M/S7 - Front adapter

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STTB 2,5/2P - Double-level terminal block

3040054
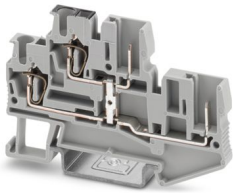
https://www.phoenixcontact.com/us/products/3040054

Double-level terminal block, Current and voltage are determined by the plug used., nom. voltage: 500 V, nominal current: 22 A, connection method: Spring-cage/plug-in connection, 1st and 2nd level connection left, Rated cross section: 2.5 mm^2, cross section: 0.08 mm^2 - 4 mm^2, 1st and 2nd level connection right, mounting type: NS 35/15, NS 35/7,5, color: gray

STTB 2,5/2P BU - Double-level terminal block

3040672

https://www.phoenixcontact.com/us/products/3040672

Double-level terminal block, Current and voltage are determined by the plug used., nom. voltage: 500 V, nominal current: 22 A, connection method: Spring-cage/plug-in connection, 1st and 2nd level connection left, Rated cross section: 2.5 mm^2, cross section: 0.08 mm^2 - 4 mm^2, 1st and 2nd level connection right, mounting type: NS 35/15, NS 35/7,5, color: blue

VIP-PA-PWR/4X10COMBI/10,0M/S7 - Front adapter

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QTTCB 1,5/ 2P - Double-level terminal block

3050196

https://www.phoenixcontact.com/us/products/3050196

Double-level terminal block, Current and voltage are determined by the plug used., nom. voltage: 500 V, nominal current: 17.5 A, connection method: Fast/plug-in connection, Rated cross section: 1.5 mm^2, cross section: 0.25 mm^2 - 1.5 mm^2, mounting type: NS 35/7,5, NS 35/15, color: gray

QTTCB 1,5/ 2P BU - Double-level terminal block

3050206

https://www.phoenixcontact.com/us/products/3050206

Double-level terminal block, Current and voltage are determined by the plug used., nom. voltage: 500 V, nominal current: 17.5 A, connection method: Fast/plug-in connection, Rated cross section: 1.5 mm^2, cross section: 0.25 mm^2 - 1.5 mm^2, mounting: NS 35/7,5, NS 35/15, color: blue

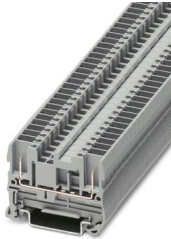# VIP-PA-PWR/4X10COMBI/10,0M/S7 - Front adapter

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ST 2,5/2P - Feed-through terminal block

3042133

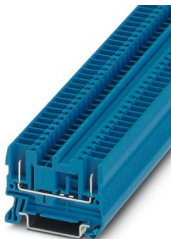https://www.phoenixcontact.com/us/products/3042133

Feed-through terminal block, nom. voltage: 500 V, nominal current: 24 A, number of connections: 2, connection method: Plug-in connection, 1 level, Rated cross section: 2.5 mm^2, cross section: 0.08 mm^2 - 4 mm^2, mounting type: NS 35/7,5, NS 35/15, color: gray

ST 2,5/2P BU - Feed-through terminal block

3042094

https://www.phoenixcontact.com/us/products/3042094

Feed-through terminal block, nom. voltage: 500 V, nominal current: 24 A, number of connections: 2, connection method: Plug-in connection, 1 level, Rated cross section: 2.5 mm^2, cross section: 0.08 mm^2 - 4 mm^2, mounting type: NS 35/7,5, NS 35/15, color: blue

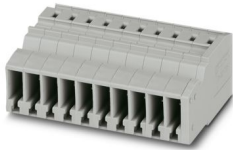# VIP-PA-PWR/4X10COMBI/10,0M/S7 - Front adapter

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SC 2,5/10 - COMBI coupling

3042311

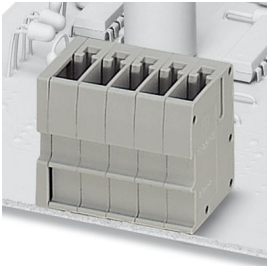https://www.phoenixcontact.com/us/products/3042311

COMBI coupling, nom. voltage: 500 V, nominal current: 24 A, number of connections: 1, number of positions: 10, connection method: Spring-cage connection, Rated cross section: 2.5 mm^2, cross section: 0.08 mm^2 - 4 mm^2, color: gray

ST 2,5-PCBV/10-G-5,2 - PCB header

1980569

https://www.phoenixcontact.com/us/products/1980569

ST-COMBI receptacle, plug-in direction vertical to the PCB, pitch: 5.2 mm, no. of positions: 10

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