

Front adapters - VIP-PA-PWR/2X10COMBI/ 1,0M/S7 - 2904714

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VIP power cabling, universal front adapter for connecting all common 20-pos. SIMATIC S7-300 I/O modules, via two cables each with a 10-pos. COMBI connector, pitch: 5.2 mm, cable length: 1 m

RoHS

Key Commercial Data

| | |
|--------------|---------------|
| Packing unit | 1 pc |
| GTIN | |
| GTIN | 4046356882569 |

Technical data

Ambient conditions

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

General

| | |
|------------------------------------|--|
| Max. permissible operating voltage | 250 V AC/DC |
| Max. permissible current | 6 A (per single wire at 40°C) 4 A (per single wire at 60°C) |
| Max. permissible total current | 20 A (per cable at 40 °C) 16 A (per cable at 60°C) |
| Mounting position | any |
| Nominal operating mode | 100% operating factor |

Standards and Regulations

| | |
|----------------------------------|---------------------------|
| Connection in acc. with standard | CUL |
| Standards/regulations | DIN EN 50178 IEC 60664 |
| Rated insulation voltage | 260 V |
| Rated surge voltage | 4 kV |

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Technical data

Standards and Regulations

| | |
|----------------------|------------------|
| Insulation | Basic insulation |
| Overvoltage category | III |

Connection data

| | |
|-------------------|---|
| Connection name | Controller level |
| Connection method | Plug connection |
| Note | Can be plugged onto 20-pos. I/O modules |

Connection data 2

| | |
|-----------------------|---------------------|
| Connection name | Field level |
| Connection method | COMBICON connectors |
| Number of connections | 2 |
| Number of positions | 10 |
| Pitch | 5.2 mm |

Cable

| | |
|---|---------------------|
| Conductor construction: Number of litz wires: | 16 |
| Single wire, material | Cu uninsulated |
| Single wire, cross section | 0.5 mm ² |
| External diameter | 9 mm |
| Length of cable | 1 m |
| Max. conductor resistance | ≤ 39 Ω/km |

Supported controller

| | |
|---------------------|---------------------------|
| Controller | SIEMENS S7-300 / ET 200 M |
| - suitable I/O card | 6ES7 321-1BH02-0AA0 |
| | 6ES7 321-1BH10-0AA0 |
| | 6ES7 321-7BH01-0AB0 |
| | 6ES7 321-1BH50-0AA0 |
| | 6ES7 321-1CH20-0AA0 |
| | 6ES7 321-1FH00-0AA0 |
| | 6ES7 321-1FF01-0AA0 |
| | 6ES7 322-1FL00-0AA0 |
| | 6ES7 322-1BH01-0AA0 |
| | 6ES7 322-1BH10-0AA0 |
| | 6ES7 322-1FH00-0AA0 |
| | 6ES7 322-1BF01-0AA0 |
| | 6ES7 322-8BF00-0AB0 |
| | 6ES7 322-1CF00-0AA0 |
| | 6ES7 322-1FF01-0AA0 |
| | 6ES7 322-1HH01-0AA0 |
| | 6ES7 322-1HF01-0AA0 |
| | 6ES7 323-1BH01-0AA0 |

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Technical data

Supported controller

| | |
|--|---------------------|
| | 6ES7 327-1BH00-0AB0 |
| | 6ES7 331-7HF01-0AB0 |
| | 6ES7 331-7KF02-0AB0 |
| | 6ES7 331-7KB02-0AB0 |
| | 6ES7 332-7ND02-0AB0 |
| | 6ES7 332-5HD01-0AB0 |
| | 6ES7 332-5HB01-0AB0 |
| | 6ES7 334-0CE01-0AA0 |
| | 6ES7 334-0KE00-0AB0 |
| | 6ES7 331-7TF01-0AB0 |
| | 6ES7 332-8TF01-0AB0 |
| | 6ES7 336-4GE00-0AB0 |

Environmental Product Compliance

| | |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Drawings

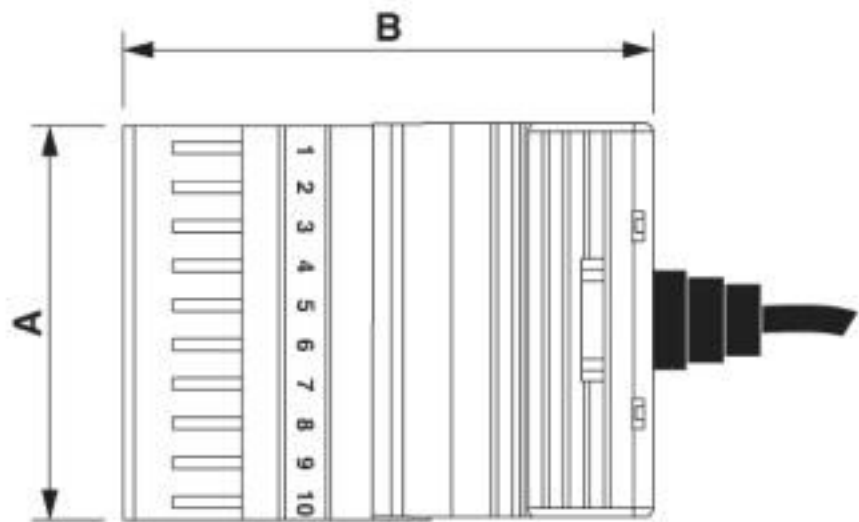
Front adapters - VIP-PA-PWR/2X10COMBI/ 1,0M/S7 - 2904714

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 |

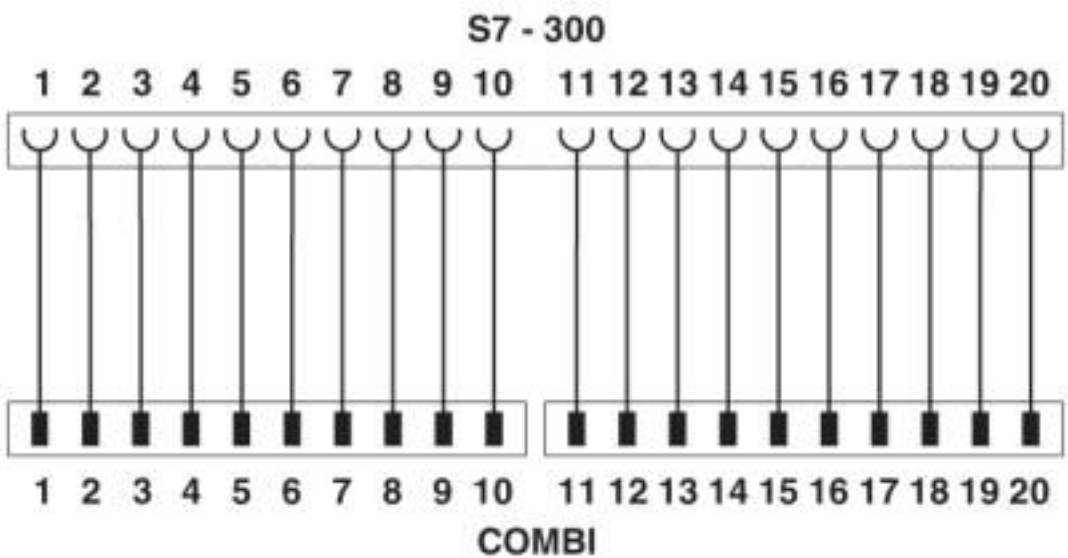
Front adapters - VIP-PA-PWR/2X10COMBI/ 1,0M/S7 - 2904714

Dimensional drawing



| | A | B |
|-----------------|----|----|
| ...4X10COMBI... | 52 | 70 |
| ...2X10COMBI... | | |
| ...4X10 PT... | 35 | 62 |
| ...2X10 PT... | | |

Circuit diagram



Front adapters - VIP-PA-PWR/2X10COMBI/ 1,0M/S7 - 2904714

Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27242292 |
| eCl@ss 4.0 | 27060300 |
| eCl@ss 4.1 | 27060300 |
| eCl@ss 5.0 | 27061800 |
| eCl@ss 5.1 | 27061800 |
| eCl@ss 6.0 | 27249200 |
| eCl@ss 7.0 | 27249290 |
| eCl@ss 8.0 | 27249290 |
| eCl@ss 9.0 | 27242292 |

ETIM

| | |
|----------|----------|
| ETIM 4.0 | EC002584 |
| ETIM 5.0 | EC002584 |
| ETIM 6.0 | EC002584 |
| ETIM 7.0 | EC002584 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 26121620 |
| UNSPSC 7.0901 | 26121620 |
| UNSPSC 11 | 26121620 |
| UNSPSC 12.01 | 26121620 |
| UNSPSC 13.2 | 32151601 |
| UNSPSC 18.0 | 32151601 |
| UNSPSC 19.0 | 32151601 |
| UNSPSC 20.0 | 32151601 |
| UNSPSC 21.0 | 32151601 |

Approvals

Approvals

Approvals

CSA / UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

Approval details

Front adapters - VIP-PA-PWR/2X10COMBI/ 1,0M/S7 - 2904714

Approvals

| | | | |
|--------------------|--|---|----------|
| CSA | | http://www.csagroup.org/services-industries/product-listing/ | 70019651 |
| Nominal voltage UN | | 250 V | |
| Nominal current IN | | 6 A | |

| | | | |
|--------------------|--|---|---------------|
| UL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
| Nominal voltage UN | | 250 V | |
| Nominal current IN | | 6 A | |

| | | | |
|--------------------|--|---|---------------|
| cUL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
| Nominal voltage UN | | 250 V | |
| Nominal current IN | | 6 A | |

| | | | |
|-----|--|--|-------------------------|
| EAC | | | RU C- DE.A*30.B00767 |
|-----|--|--|-------------------------|

| | | | |
|------------------|--|--|--|
| cULus Recognized | | | |
|------------------|--|--|--|

Accessories

Accessories

Disconnect terminal block

Knife disconnect terminal block - ST 2,5-TWIN-MT/1P - 3040766



Knife disconnect terminal block, nom. voltage: 400 V, nominal current: 20 A, connection method: Spring-cage/plug-in connection, cross section: 0.08 mm² - 4 mm², AWG: 28 - 12, length: 81 mm, width: 5.2 mm, color: gray, mounting: NS 35/7,5, NS 35/15

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Accessories

Disconnect terminal block - ST 2,5-TWIN-TG/1P - 3040847



Disconnect terminal block, nom. voltage: 400 V, nominal current: 20 A, connection method: Spring-cage/plug-in connection, cross section: 0.08 mm² - 4 mm², AWG: 28 - 12, length: 81 mm, width: 5.2 mm, color: gray, mounting: NS 35/7,5, NS 35/15

Multi-level terminal block

Double-level terminal block - PTTB 2,5/2P - 3210871



Double-level terminal block, connection method: Push-in / plug connection, cross section: 0.14 mm² - 4 mm², AWG: 26 - 12, width: 5.2 mm, color: gray, mounting type: NS 35/7,5, NS 35/15

Double-level terminal block - PTTB 2,5/2P BU - 3210884



Double-level terminal block, connection method: Push-in / plug connection, cross section: 0.14 mm² - 4 mm², AWG: 26 - 12, width: 5.2 mm, color: blue, mounting type: NS 35/7,5, NS 35/15

PCB headers

Feed-through header - ST 2,5-PCBV/10-G-5,2 - 1980569



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

Plug-in terminal block

Feed-through terminal block - UT 2,5/1P - 3045017



Feed-through terminal block, nom. voltage: 500 V, nominal current: 24 A, connection method: Screw/plug-in connection, number of connections: 2, cross section: 0.14 mm² - 4 mm², AWG: 26 - 12, width: 5.2 mm, color: gray, mounting type: NS 35/7,5, NS 35/15

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Accessories

Feed-through terminal block - UT 2,5/1P BU - 3045020



Feed-through terminal block, nom. voltage: 500 V, nominal current: 24 A, connection method: Screw/plug-in connection, number of connections: 2, cross section: 0.14 mm² - 4 mm², AWG: 26 - 12, width: 5.2 mm, color: blue, mounting type: NS 35/7,5, NS 35/15

Feed-through terminal block - PT 2,5/1P - 3210033



Feed-through terminal block, nom. voltage: 500 V, nominal current: 24 A, connection method: Push-in / plug connection, number of connections: 2, cross section: 0.14 mm² - 4 mm², AWG: 26 - 12, width: 5.2 mm, height: 35.3 mm, color: gray, mounting type: NS 35/7,5, NS 35/15

Feed-through terminal block - PT 2,5/1P BU - 3210046



Feed-through terminal block, nom. voltage: 500 V, nominal current: 24 A, connection method: Push-in / plug connection, number of connections: 2, cross section: 0.14 mm² - 4 mm², AWG: 26 - 12, width: 5.2 mm, height: 35.3 mm, color: blue, mounting type: NS 35/7,5, NS 35/15

Feed-through terminal block - QTC 1,5/ 1P - 3050073



Feed-through terminal block, nom. voltage: 500 V, nominal current: 17.5 A, connection method: Fast/plug-in connection, number of connections: 2, cross section: 0.25 mm² - 1.5 mm², AWG: 24 - 16, width: 5.2 mm, color: gray, mounting type: NS 35/7,5, NS 35/15

Feed-through terminal block - QTC 1,5/ 1P BU - 3050086



Feed-through terminal block, nom. voltage: 500 V, nominal current: 17.5 A, connection method: Fast/plug-in connection, number of connections: 2, cross section: 0.25 mm² - 1.5 mm², AWG: 24 - 16, width: 5.2 mm, color: blue, mounting type: NS 35/7,5, NS 35/15

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Accessories

Feed-through terminal block - UT 2,5-TWIN/1P - 3060490



Feed-through terminal block, nom. voltage: 500 V, nominal current: 24 A, connection method: Screw/plug-in connection, number of connections: 3, number of positions: 1, cross section: 0.14 mm² - 4 mm², AWG: 26 - 12, width: 5.2 mm, color: gray, mounting type: NS 35/7,5, NS 35/15

Feed-through terminal block - UT 2,5-TWIN/1P BU - 3060500



Feed-through terminal block, nom. voltage: 500 V, nominal current: 24 A, connection method: Screw/plug-in connection, number of connections: 3, number of positions: 1, cross section: 0.14 mm² - 4 mm², AWG: 26 - 12, width: 5.2 mm, color: blue, mounting type: NS 35/7,5, NS 35/15

Feed-through terminal block - PT 2,5-TWIN/1P - 3209633



Feed-through terminal block, nom. voltage: 500 V, nominal current: 24 A, connection method: Push-in / plug connection, number of connections: 3, number of positions: 1, cross section: 0.14 mm² - 4 mm², AWG: 26 - 12, width: 5.2 mm, height: 35.2 mm, color: gray, mounting type: NS 35/7,5, NS 35/15

Feed-through terminal block - PT 2,5-TWIN/1P BU - 3209646



Feed-through terminal block, nom. voltage: 500 V, nominal current: 24 A, connection method: Push-in / plug connection, number of connections: 3, number of positions: 1, cross section: 0.14 mm² - 4 mm², AWG: 26 - 12, width: 5.2 mm, height: 35.2 mm, color: blue, mounting type: NS 35/7,5, NS 35/15

Feed-through terminal block - PT 2,5-QUATTRO/2P - 3209662



Feed-through terminal block, nom. voltage: 500 V, nominal current: 24 A, connection method: Push-in / plug connection, number of connections: 4, cross section: 0.14 mm² - 4 mm², AWG: 26 - 12, width: 5.2 mm, color: gray, mounting type: NS 35/7,5, NS 35/15

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Accessories

Feed-through terminal block - PT 2,5-QUATTRO/2P BU - 3209675



Feed-through terminal block, nom. voltage: 500 V, nominal current: 24 A, connection method: Push-in / plug connection, number of connections: 4, cross section: 0.14 mm² - 4 mm², AWG: 26 - 12, width: 5.2 mm, color: blue, mounting type: NS 35/7,5, NS 35/15

Double-level terminal block - UTTB 2,5/2P - 3060351



Double-level terminal block, connection method: Screw/plug-in connection, cross section: 0.14 mm² - 4 mm², AWG: 26 - 12, width: 5.2 mm, color: gray, mounting type: NS 35/7,5, NS 35/15

Double-level terminal block - UTTB 2,5/2P BU - 3060364



Double-level terminal block, connection method: Screw/plug-in connection, cross section: 0.14 mm² - 4 mm², AWG: 26 - 12, width: 5.2 mm, color: blue, mounting type: NS 35/7,5, NS 35/15

Double-level terminal block - STTB 2,5/2P - 3040054



Double-level terminal block, connection method: Spring-cage/plug-in connection, cross section: 0.08 mm² - 4 mm², AWG: 28 - 12, width: 5.2 mm, color: gray, mounting type: NS 35/15, NS 35/7,5

Double-level terminal block - STTB 2,5/2P BU - 3040672



Double-level terminal block, connection method: Spring-cage/plug-in connection, cross section: 0.08 mm² - 4 mm², AWG: 28 - 12, width: 5.2 mm, color: blue, mounting type: NS 35/15, NS 35/7,5

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Accessories

Double-level terminal block - QTTCB 1,5/ 2P - 3050196



Double-level terminal block, connection method: Fast/plug-in connection, cross section: 0.25 mm² - 1.5 mm², AWG: 24 - 16, width: 5.2 mm, color: gray, mounting type: NS 35/7,5, NS 35/15

Double-level terminal block - QTTCB 1,5/ 2P BU - 3050206



Double-level terminal block, connection method: Fast/plug-in connection, cross section: 0.25 mm² - 1.5 mm², AWG: 24 - 16, width: 5.2 mm, color: blue, mounting: NS 35/7,5, NS 35/15

Feed-through terminal block - ST 2,5/2P - 3042133



Feed-through terminal block, nom. voltage: 500 V, nominal current: 24 A, connection method: Spring-cage/plug-in connection, number of connections: 2, cross section: 0.08 mm² - 4 mm², AWG: 28 - 12, width: 5.2 mm, color: gray, mounting type: NS 35/7,5, NS 35/15

Feed-through terminal block - ST 2,5/2P BU - 3042094



Feed-through terminal block, nom. voltage: 500 V, nominal current: 24 A, connection method: Spring-cage/plug-in connection, number of connections: 2, cross section: 0.08 mm² - 4 mm², AWG: 28 - 12, width: 5.2 mm, color: blue, mounting type: NS 35/7,5, NS 35/15

Terminal coupling

COMBI receptacle - SC 2,5/10 - 3042311



COMBI receptacle, nom. voltage: 500 V, nominal current: 24 A, connection method: Plug connection, number of connections: 1, number of positions: 10, cross section: 0.08 mm² - 4 mm², AWG: 28 - 12, width: 52 mm, height: 18.8 mm, color: gray

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Accessories

COMBI receptacle - SC 2,5/10 - 3042311



COMBI receptacle, nom. voltage: 500 V, nominal current: 24 A, connection method: Plug connection, number of connections: 1, number of positions: 10, cross section: 0.08 mm² - 4 mm², AWG: 28 - 12, width: 52 mm, height: 18.8 mm, color: gray

COMBI receptacle - SC 2,5/10 - 3042311



COMBI receptacle, nom. voltage: 500 V, nominal current: 24 A, connection method: Plug connection, number of connections: 1, number of positions: 10, cross section: 0.08 mm² - 4 mm², AWG: 28 - 12, width: 52 mm, height: 18.8 mm, color: gray

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