

VIP-PA-FLK50/ 2,0M/S7 - Front adapter



2321800

<https://www.phoenixcontact.com/us/products/2321800>

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VIP VARIOFACE front adapter, with connected system cables for SMATIC S7-300, 1 x 32 channels can be connected

Your advantages

- Can be screwed on with the I/O module
- Power supply via terminal blocks with spring-cage double connection
- Encapsulated socket strips on the module side

Commercial data

Item number	2321800
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C423
Product key	CK2317
Catalog page	Page 500 (C-5-2019)
GTIN	4046356347600
Weight per piece (including packing)	574.4 g
Weight per piece (excluding packing)	574 g
Customs tariff number	85444290
Country of origin	DE

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Technical data

Product properties

Product type	Front adapter
Product family	VARIOFACE Professional

Insulation characteristics

Insulation	Functional insulation
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Insulation characteristics: Air clearances and creepage distances

Insulation	Functional insulation
Overvoltage category	II
Pollution degree	2

Electrical properties

Operating voltage (AC)	≤ 30 V AC
Operating voltage (DC)	≤ 60 V DC
Current (per branch)	≤ 1 A
Current (Voltage supply)	≤ 8 A
Current (per byte)	≤ 2 A

Air clearances and creepage distances

Rated insulation voltage	63 V
Rated surge voltage	0.6 kV

Supported controller SIEMENS S7-300 / ET 200 M

Suitable I/O card	CPU 312C
	CPU 313C
	CPU 313C-2PtP
	CPU 313C-2DP
	CPU 314C-2PtP
	CPU 314C-2DP
	6ES7321-1BL00-0AA0
	6ES7322-1BL00-0AA0
	6ES7322-8BH01-0AB0
	6ES7322-8BH10-0AB0
	6ES7323-1BL00-0AA0
	6ES7331-1KF01-0AB0
	6ES7331-7NF00-0AB0
	6ES7331-7NF10-0AB0
	6ES7331-7PF01-0AB0
	6ES7331-7PF11-0AB0
	6ES7332-5HF00-0AB0
	6ES7350-2AH01-0AE0
	6ES7357-4AH01-0AE0

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	6ES7321-7TH00-0AB0
	6ES7331-1KF02-0AB0

Connection data

Connection 1 (control level)

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

Connection 2 (field level)

Connection in acc. with standard	IEC 60603-13
Connection method	IDC/FLK socket strip
Number of connections	1
Number of positions	50
Insertion/withdrawal cycles	< 50
Pitch	2.54 mm

Connection 3 (supply)

Connection method	Push-in spring connection
Stripping length	10 mm
Number of connections	2
Number of positions	4
Conductor cross section rigid	0.2 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section AWG	24 ... 14

Dimensions

Cable

Length	2 m
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Cable/line

50X0.14 [PVC]

UL AWM Style	2464/1061
Number of positions	50
Shielded	no
Cable type	50X0.14 [PVC]
Conductor type	Round cable set
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Conductor cross section	50x 0.14 mm ²
Wire diameter incl. insulation	1 mm ±0.03 mm
External cable diameter	10.30 mm ±0.4 mm
Outer sheath, material	Semi-rigid PVC
External sheath, color	gray

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Conductor material	Tin-plated Cu litz wires
Cable resistance	≤ 145 Ω/km (20 °C)
Insulation resistance	≥ 20 MΩ*km (20 °C)
Smallest bending radius, fixed installation	86 mm
Smallest bending radius, movable installation	161 mm
Max. bending cycles	5000 (at a radius of ≥ 15x outside diameter)
Halogen-free	no
Flame resistance	IEC 60332-1-2 (raw cable)
	VDE 0842, Part 332-1-2 (raw cable)
	IEC 60332-3-22 (raw cable)
	UL VW-1
	CSA FT-1
Resistance to oil	can withstand occasional splashes (raw cable)

Environmental and real-life conditions

Ambient conditions

Degree of protection (Module)	IP20
Degree of protection (Installation location)	≥ IP54
Ambient temperature (operation)	-20 °C ... 50 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Altitude	≤ 2000 m

Approvals

UKCA

Certificate	UKCA-compliant
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Standards and regulations

Air clearances and creepage distances

Standards/regulations	EN IEC 60664-1
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Mounting

Mounting type	Plug-in mounting
Mounting position	any

Notes

General	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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General	<p>To prevent short circuits, all wire bridges on the following I/O cards are to be separated.</p> <p>There may not be any voltage supply at the front adapter.</p> <p>6ES7 331-1KF01-0AB0 6ES7 331-1KF02-0AB0 6ES7 331-7NF00-0AB0 6ES7 331-7NF10-0AB0 6ES7 331-7PF01-0AB0 6ES7 331-7PF11-0AB0 6ES7 332-5HF00-0AB0 6ES7 350-2AH01-0AE0 6ES7 357-4AH01-0AE0</p>
General	<p><u>Digital I/O cards</u></p> <p>Thanks to the existing wire bridge upon delivery, the input and output bytes are non-isolated.</p>

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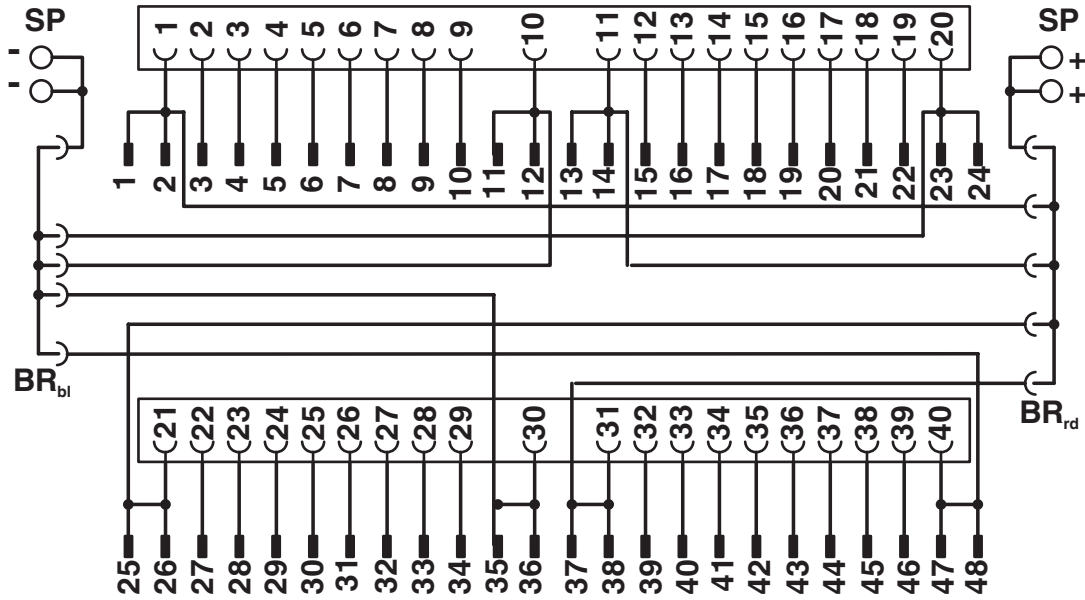


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Drawings

Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2321800>

 cUL Recognized Approval ID: FILE E 238705				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	50 V	1 A	-	-

 UL Recognized Approval ID: FILE E 238705				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	50 V	1 A	-	-

cULus Recognized

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Classifications

ECLASS

ECLASS-11.0	27242292
ECLASS-12.0	27242292
ECLASS-13.0	27242292

ETIM

ETIM 9.0	EC002584
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UNSPSC

UNSPSC 21.0	32151600
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Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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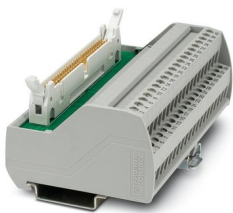
<https://www.phoenixcontact.com/us/products/2321800>

Mandatory accessories

VIP-2/SC/FLK50 (1-40) /S7 - Passive module

2315243

<https://www.phoenixcontact.com/us/products/2315243>



VARIOFACE interface module for Siemens SIMATIC® S7-300, with SIMATIC®-specific labeling (1 - 40), with screw connection, module width: 106.1 mm

VIP-2/PT/FLK50 (1-40) /S7 - Passive module

2903804

<https://www.phoenixcontact.com/us/products/2903804>



VARIOFACE interface module for Siemens SIMATIC® S7-300, with SIMATIC®-specific labeling (1 - 40), with push-in connection, module width: 107.9 mm

VIP-PA-FLK50/ 2,0M/S7 - Front adapter

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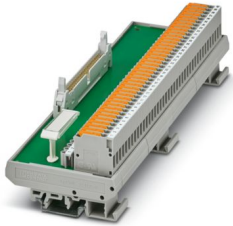
<https://www.phoenixcontact.com/us/products/2321800>



FLKM 50/KDS3-MT/PPA/S7-300 - Passive module

2304490

<https://www.phoenixcontact.com/us/products/2304490>



VARIOFACE termination board for Siemens SIMATIC® S7-300, with SIMATIC®-specific marking (1-40), knife-disconnect terminal block, and test pick-off, module width: 214 mm

Accessories

KME - Cable marker carrier

0807083

<https://www.phoenixcontact.com/us/products/0807083>



Cable marker carrier, white, unlabeled, mounting type: Assembly with cable ties, cable diameter: > 5 mm, lettering field size: 20 x 8 mm

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