

# FLKM 20-PA-ET200SP - Front adapter



1099751

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VARIOFACE front adapter for Siemens SIMATIC® ET200SP, with a 20-pos. FLK-/IDC male strip, max. 16 channels can be connected

## Commercial data

Item number	1099751
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C421
Product key	DK231S
GTIN	4055626950181
Weight per piece (including packing)	28 g
Weight per piece (excluding packing)	28 g
Customs tariff number	85366990
Country of origin	DE

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## Technical data

### Product properties

Product type	Front adapter
Product family	VARIOFACE

#### Insulation characteristics: Air clearances and creepage distances

Insulation	Functional insulation
Overvoltage category	II
Pollution degree	2

### Electrical properties

Operating voltage (DC)	≤ 60 V DC
Nominal operating mode	100% operating factor
Current (per branch)	≤ 1 A
Current (Voltage supply via IDC/FLK)	≤ 2 A
Current (Voltage supply via Push-in connection)	≤ 8 A

#### Air clearances and creepage distances

Rated insulation voltage	63 V
Rated surge voltage	0.6 kV (1.2/50 μs)

#### Supported controller: SIEMENS ET 200SP

Suitable base unit	6ES7193-6BP00-0BA0
	6ES7193-6BP00-2BA0
	6ES7193-6BP00-0BA1
	6ES7193-6BP00-0DA0
	6ES7193-6BP00-2DA0
	6ES7193-6BP00-0DA1
Suitable I/O module	6ES7131-6BH01-0BA0 (Base Units A0/A1)
	6ES7131-6BH01-2BA0 (Base Units A0/A1)
	6ES7132-6BH00-0AA0 (Base Units A0/A1)
	6ES7132-6BH01-0BA0 (Base Units A0/A1)
	6ES7132-6BH01-2BA0 (Base Units A0/A1)
	6ES7134-6GD01-0BA1 (Base Units A0/A1)
	6ES7134-6GD01-2BA1 (Base Units A0/A1)
	6ES7134-6HD01-0BA1 (Base Units A0/A1)
	6ES7134-6HD01-2BA1 (Base Units A0/A1)
	6ES7134-6TD00-0CA1 (Base Units A0/A1)
	6ES7134-6JD00-0CA1 (Base Units A0/A1)
	6ES7134-6JD00-2CA1 (Base Units A0/A1)
	6ES7134-6FF00-0AA1 (Base Units A0/A1)
	6ES7134-6GF00-0AA1 (Base Units A0/A1)
	6ES7134-6JF00-0CA1 (Base Units A0/A1)
	6ES7134-6JF00-2CA1 (Base Units A0/A1)

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	6ES7134-6FB00-0BA1 (Base Units A0/A1)
	6ES7134-6GB00-0BA1 (Base Units A0/A1)
	6ES7134-6HB00-0CA1 (Base Units A0/A1)
	6ES7134-6HB00-0DA1 (Base Units A0/A1)
	6ES7135-6FB00-0BA1 (Base Units A0/A1)
	6ES7135-6GB00-0BA1 (Base Units A0/A1)
	6ES7135-6HB00-0CA1 (Base Units A0/A1)
	6ES7135-6HB00-0DA1 (Base Units A0/A1)
	6ES7135-6HD00-0BA1 (Base Units A0/A1)

## Connection data

### Connection 1 (control level)

Connection method	Plug-in connection
Number of connections	1
Number of positions	18

### Connection 2 (field level)

Connection in acc. with standard	IEC 60603-13
Connection method	IDC/FLK pin strip
Number of connections	1
Number of positions	20
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

### Connection 3 (supply)

Connection method	Push-in spring connection
Stripping length	9 mm
Number of connections	1
Number of positions	2
Conductor cross-section rigid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
	0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Ferrule without plastic sleeve)
	0.25 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> (Ferrule with plastic sleeve)
Conductor cross-section AWG	26 ... 16
Pitch	3.81 mm

## Dimensions

### Item dimensions

Width	14.9 mm
Height	52.95 mm
Depth	48.99 mm

## Environmental and real-life conditions

### Ambient conditions

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Degree of protection (Module)	IP00
Degree of protection (Installation location)	≥ IP54
Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Altitude	≤ 2000 m

## Approvals

UL, USA/Canada

Identification	UL 508 Recognized
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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

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.
Assembly note	Once plugged in, the front adapter and terminal block form a single unit that can no longer be separated.

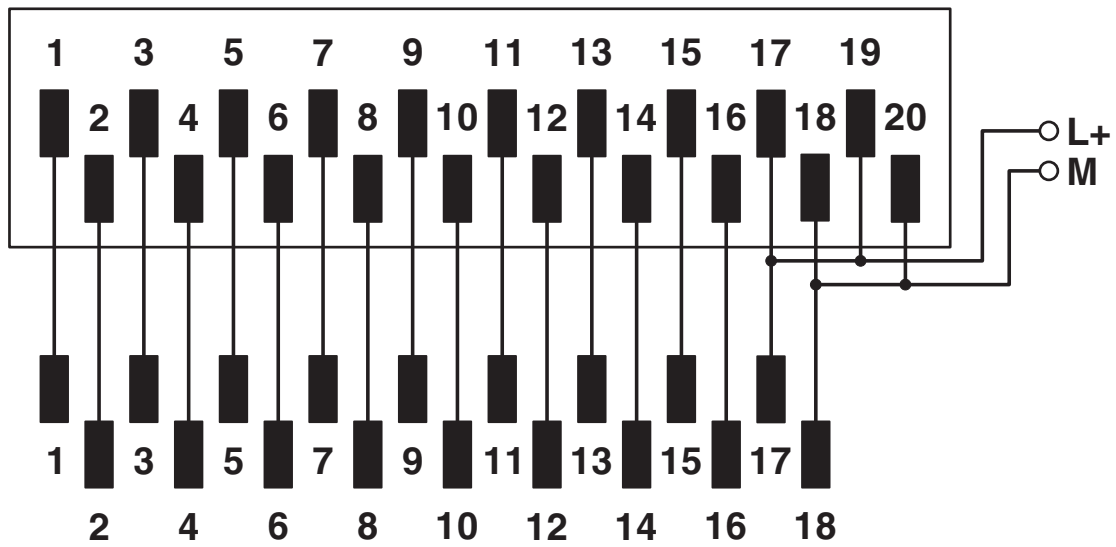
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## Drawings

Circuit diagram



Connection scheme: FLKM 20-PA-ET200SP

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1099751>



**UL Listed**

Approval ID: E238705



**cUL Listed**

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## Classifications

### ECLASS

ECLASS-13.0	27242292
ECLASS-15.0	27242292

### ETIM

ETIM 10.0	EC002584
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### UNSPSC

UNSPSC 21.0	32151600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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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