

# FLKM 16-PA- 331-1KF/I/MINI-MCR - Front adapter

2318237

<https://www.phoenixcontact.com/us/products/2318237>



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VARIOFACE front adapter, for SIMATIC® S7-300, only in connection with MINI MCR-2-V8-FLK 16. Connectable card: 331-1KF0...-0AB01.



## Commercial data

Item number	2318237
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	DK231S
GTIN	4046356301664
Weight per piece (including packing)	57.6 g
Weight per piece (excluding packing)	32 g
Customs tariff number	85369010
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
Oversupply voltage category	II
Pollution degree	2

### Electrical properties

Operating voltage (AC)	≤ 30 V AC
Operating voltage (DC)	≤ 60 V DC
Current (per branch)	≤ 50 mA

#### Air clearances and creepage distances

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

#### Supported controller SIEMENS S7-300 / ET 200 M

Suitable I/O card	6ES7331-1KF0x-0AB0
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### Connection data

#### Connection 1 (control level)

Connection method	Plug-in connection
Number of positions	40

#### 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	16
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

#### Connection 3 (supply)

Connection method	Screw connection
Stripping length	6 mm
Number of positions	2
Conductor cross-section rigid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section rigid (2 conductors with same cross section)	0.14 mm <sup>2</sup> ... 0.75 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)

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	0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Ferrule with plastic sleeve)
Conductor cross-section flexible (2 conductors with same cross section)	0.14 mm <sup>2</sup> ... 0.75 mm <sup>2</sup>
	0.25 mm <sup>2</sup> ... 0.5 mm <sup>2</sup> (Ferrule without plastic sleeve)
	0.5 mm <sup>2</sup> ... 1 mm <sup>2</sup> (TWIN ferrule with plastic sleeve)
Conductor cross-section AWG	26 ... 16
Tightening torque	0.5 Nm ... 0.6 Nm
Pitch	5 mm

## Dimensions

### Item dimensions

Width	115 mm
Height	21.3 mm
Depth	31.9 mm

## Environmental and real-life conditions

### Ambient conditions

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

## 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.
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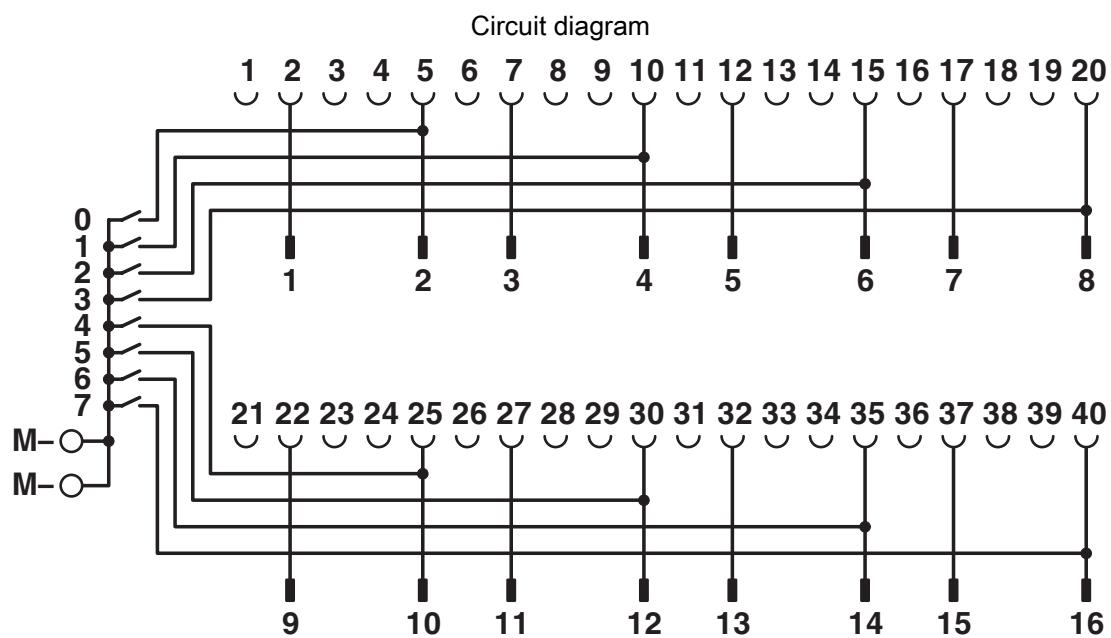
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## Drawings



Connection scheme FLKM 16-PA-331-1KF/I/MINI-MCR

## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2318237>

cUL Recognized		Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine		30 V	0.05 A	-	-

UL Recognized		Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine		30 V	0.05 A	-	-

## Classifications

### ECLASS

ECLASS-13.0	27242292
ECLASS-15.0	27242292

### ETIM

ETIM 9.0	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
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)
SCIP	fa94acbd-84dc-420b-8280-662f23f676f2

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