

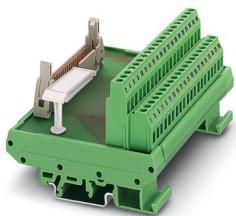
FLKM 50 - Termination board

2281089

<https://www.phoenixcontact.com/us/products/2281089>



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VARIOFACE module, with screw connection and flat-ribbon cable connector, for mounting on NS 32 oder NS 35/7.5, with male connector and short and long locking latches for female connectors, number of positions 50, (1-1 connection)

Commercial data

Item number	2281089
Packing unit	5 pc
Minimum order quantity	1 pc
Sales key	C422
Product key	CK2181
Catalog page	Page 242 (IF-2007)
GTIN	4017918054533
Weight per piece (including packing)	242.03 g
Weight per piece (excluding packing)	223.664 g
Customs tariff number	85369010
Country of origin	DE

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Technical data

Product properties

Product type	Interface module
Product family	VARIOFACE
Number of positions	50
No. of channels	16

Data management status

Article revision	13
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Insulation characteristics: Air clearances and creepage distances

Insulation	Functional insulation
Oversupply category	II
Pollution degree	2

Electrical properties

Operating voltage (AC)	≤ 30 V AC
Operating voltage (DC)	≤ 60 V DC
Current (per branch)	≤ 1 A

Air clearances and creepage distances

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

Supported controller SIEMENS S7-400

Suitable I/O card	6ES7431-0HH0-0AB0 6ES7431-1KF00-0AB0 6ES7431-1KF10-0AB0 6ES7431-1KF20-0AB0 6ES7431-7KF00-0AB0 6ES7431-7KF10-0AB0 6ES7431-7QH00-0AB0 6ES7432-1HF00-0AB0
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Connection data

Connection 1 (control level)

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

Connection 2 (field level)

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Connection method	Screw connection
Stripping length	7 mm
Screw thread	M3
Number of positions	50
Conductor cross section rigid	0.2 mm ² ... 4 mm ²
Conductor cross-section rigid (2 conductors with same cross section)	0.2 mm ² ... 1.5 mm ²
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ² 0.25 mm ² ... 1.5 mm ² (Ferrule without plastic sleeve) 0.25 mm ² ... 2.5 mm ² (Ferrule with plastic sleeve)
Conductor cross section flexible (2 conductors with same cross section)	0.2 mm ² ... 1.5 mm ² 0.25 mm ² ... 0.75 mm ² (Ferrule without plastic sleeve) 0.5 mm ² ... 0.5 mm ² (TWIN ferrule with plastic sleeve)
Conductor cross section AWG	24 ... 12
Tightening torque	0.5 Nm ... 0.6 Nm
Pitch	5.08 mm

Signaling

Status display present	No
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Dimensions

Item dimensions	
Width	135 mm
Height	77 mm
Depth	57.47 mm

Material specifications

Color	green (RAL 6021)
Housing insulation material	Polyamide 6 green

Environmental and real-life conditions

Ambient conditions	
Degree of protection (Module)	IP00
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

Standards and regulations

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Air clearances and creepage distances

Standards/regulations

EN IEC 60664-1

Mounting

Mounting type

DIN rail 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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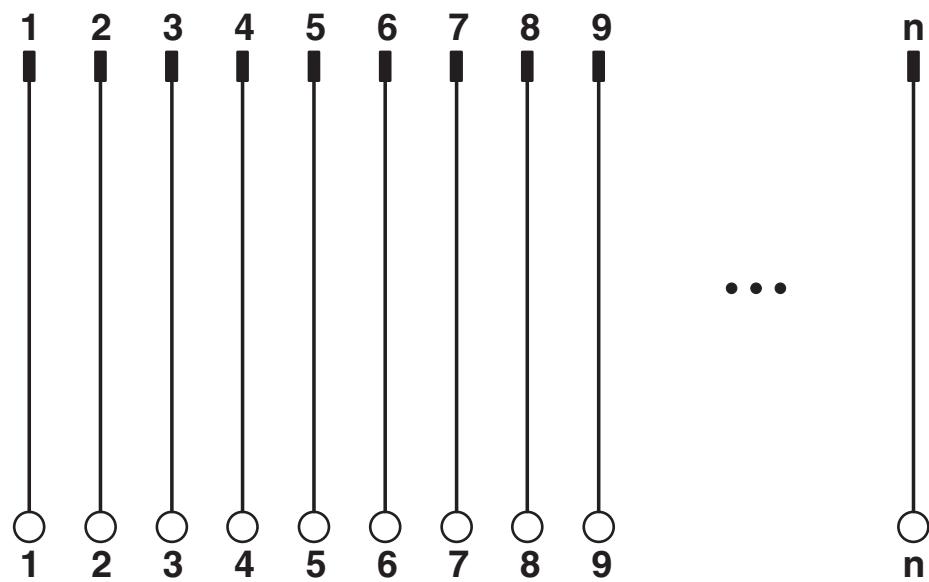
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Drawings

Circuit diagram



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Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2281089>

cUL Recognized Approval ID: E118976				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Field wiring	125 V	1 A	30 - 12	-

UL Recognized Approval ID: E118976				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Field wiring	125 V	1 A	30 - 12	-

cULus Recognized

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Classifications

ECLASS

ECLASS-11.0	27141152
ECLASS-12.0	27141152
ECLASS-13.0	27141152

ETIM

ETIM 9.0	EC002780
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UNSPSC

UNSPSC 21.0	39121400
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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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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com