

2281157

https://www.phoenixcontact.com/gb/products/2281157

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



VARIOFACE module, with screw connection and D-Subminiature pin strip, for mounting on NS 35/7.5 or NS 32, 50-pos.

### Commercial data

Item number	2281157		
Packing unit	5 pc		
Minimum order quantity	1 pc		
Sales key	DK2182		
Product key	DK2182		
Catalog page	Page 225 (IF-2002)		
GTIN	4017918054601		
Weight per piece (including packing)	236.1 g		
Weight per piece (excluding packing)	236.1 g		
Customs tariff number	85369010		
Country of origin	DE		



2281157

https://www.phoenixcontact.com/gb/products/2281157

## Technical data

### Product properties

Product type Interface module	
Product family VARIOFACE	
Operating mode	100% operating factor
Operating mode	- TON SPECIMING COLOR
nsulation characteristics: Air clearances and cre	·
nsulation characteristics: Air clearances and cre	epage distances

### Electrical properties

Operating voltage (AC)	≤ 30 V AC
Operating voltage (DC)	≤ 60 V DC
Current (per branch)	≤ 2.5 A
Current (Total current)	≤ 90 A

#### Air clearances and creepage distances

Rated insulation voltage	125 V	
Rated surge voltage	1.2 kV (1.2/50 μs)	

### Connection data

#### Connection 1 (control level)

Connection in acc. with standard	IEC 60807-2	
Connection method	D-SUB pin strip	
Screw thread	UNC 4-40	
Number of connections	1	
Number of positions	50	
Insertion/withdrawal cycles	> 500	
Pitch	2.77 mm	

### Connection 2 (field level)

Connection method	Screw connection	
Stripping length	7 mm	
Screw thread	M3	
Number of positions 34		
Conductor cross section rigid	0.2 mm² 4 mm²	
Conductor cross-section rigid (2 conductors with same cross section)	0.2 mm² 1.5 mm²	
Conductor cross section flexible	0.2 mm² 2.5 mm²	
	0.25 mm² 1.5 mm² (Ferrule without plastic sleeve)	
	0.25 mm² 2.5 mm² (Ferrule with plastic sleeve)	
Conductor cross section flexible (2 conductors with same cross	0.2 mm² 1.5 mm²	
section)	0.25 mm² 0.75 mm² (Ferrule without plastic sleeve)	



2281157

https://www.phoenixcontact.com/gb/products/2281157

Aductor cross section AWG   24 12   0.5 Nm 0.6 Nm   0.5 Nm 0.5 Nm 0.6 Nm   0.5 Nm 0.5 Nm 0.6 Nm   0.5 Nm 0.5 Nm 0.5 Nm   0.5 Nm 0.5 Nm   0.5 Nm 0.5 Nm 0.5 Nm   0.5 Nm 0.5 Nm 0.5 Nm   0.5 Nm 0.5 Nm 0.5 Nm		0.5 mm <sup>2</sup> 0.5 mm <sup>2</sup> (TWIN ferrule with plastic sleeve)	
sction 3 (field level)  nnection method screw connection show thread serve thread M3 mber of positions nductor cross section rigid (2 conductors with same cross stition) nductor cross section flexible  0.2 mm² 4 mm² 0.2 mm² 1.5 mm²  0.2 mm² 2.5 mm² 0.25 mm² 2.5 mm² (Ferrule without plastic sleeve) 0.25 mm² 2.5 mm² (Ferrule with plastic sleeve) 0.25 mm² 1.5 mm² (TWIN ferrule with plastic sleeve) 0.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve)	onductor cross section AWG		
section 3 (field level)  Innection method Ipping length Imper of positions Inductor cross section rigid (2 conductors with same cross Inductor cross section flexible (2 conductors with same cross Inductor cro	ghtening torque	0.5 Nm 0.6 Nm	
Innection method Ipping length Ipping length Ipping length Ipping length Imper of positions Imper of positio	itch	5.08 mm	
Innection method Ipping length Ipping length Ipping length Ipping length Imper of positions Imper of positio	nnection 3 (field level)		
ipping length rew thread M3 mber of positions 18 inductor cross section rigid 0.2 mm² 4 mm² 0.2 mm² 1.5 mm² 1.5 mm² 0.2 mm² 2.5 mm² 0.25 mm² 2.5 mm² 0.25 mm² 2.5 mm² (Ferrule without plastic sleeve) 0.25 mm² 2.5 mm² (Ferrule with plastic sleeve) 0.25 mm² 1.5 mm² 0.25 mm² 1.5 mm² 1.5 mm² (Ferrule with plastic sleeve) 0.5 mm² 1.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve) 0.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve) 0.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve) 0.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve) 0.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve) 0.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve) 0.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve) 0.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve) 0.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve) 0.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve) 0.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve) 0.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve) 0.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve) 0.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve) 0.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve) 0.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve) 0.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve) 0.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve) 0.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve)		Screw connection	
mere withread M3 mber of positions 18 nductor cross section rigid 0.2 mm² 4 mm² 0.2 mm² 4 mm² 0.2 mm² 1.5 mm² mductor cross-section rigid (2 conductors with same cross 2.5 mm² 2.5 mm² 0.25 mm² 2.5 mm² (Ferrule without plastic sleeve 0.25 mm² 2.5 mm² (Ferrule with plastic sleeve) 0.25 mm² 2.5 mm² (Ferrule with plastic sleeve) 0.25 mm² 1.5 mm² (Ferrule without plastic sleeve) 0.5 mm² 1.5 mm² (Ferrule with plastic sleeve) 0.5 mm² 1.5 mm² (Ferrule with plastic sleeve) 0.5 mm² 1.5 mm² (Ferrule without plastic sleeve) 0.5 mm² 1.5 mm² (Ferrule with plastic sleeve) 0.5 mm² 1.5 mm² (Ferrule with plastic sleeve) 0.5 mm² 1.5 mm² (Ferrule without plastic sleeve)			
mber of positions  It and ductor cross section rigid  It and ductor cross-section rigid (2 conductors with same cross and ductor cross-section rigid (2 conductors with same cross and ductor cross section flexible  It and ductor cross section flexible  It and ductor cross section flexible  It and ductor cross section flexible (2 conductors with same cross and ductor cross section	Screw thread		
Inductor cross section rigid Inductor cross-section rigid (2 conductors with same cross and inductor cross-section rigid (2 conductors with same cross and inductor cross section flexible  Inductor cross section flexible  Inductor cross section flexible (2 conductors with same cross and inductor cross section flexible (2 conductors with same cross and inductor cross section flexible (2 conductors with same cross and inductor cross section flexible (2 conductors with same cross and inductor cross section AWG  Inductor cross section flexible (2 conductors with same cross and inductor cross section AWG  Inductor cross section flexible (2 conductors with same cross and inductor cross section AWG  Inductor cross section flexible (2 conductors with same cross and inductor cross section AWG  Inductor cross section flexible (2 conductors with same cross and inductor cross section AWG  Inductor cross section flexible (2 conductors with same cross and inductor cross section AWG  Inductor cross section flexible (2 conductors with same cross and inductor cross section AWG  Inductor cross section AWG  Inductor cross section flexible (2 conductors with same cross and inductor cross section AWG  Inductor cross section flexible (2 conductors with same cross and inductor cross section AWG  Inductor cross section flexible (2 conductors with same cross and inductor cross section AWG  Inductor cross section flexible (2 conductors with same cross and inductor cross section AWG  Induc			
Inductor cross-section rigid (2 conductors with same cross    1.5 mm²			
nductor cross section flexible  0.2 mm² 2.5 mm² (Ferrule without plastic sleeve)  0.25 mm² 2.5 mm² (Ferrule with plastic sleeve)  0.25 mm² 2.5 mm² (Ferrule with plastic sleeve)  0.2 mm² 2.5 mm² (Ferrule with plastic sleeve)  0.2 mm² 1.5 mm²  0.25 mm² 1.5 mm² (TWIN ferrule with plastic sleeve)  0.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve)  0.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve)  0.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve)	Conductor cross-section rigid (2 conductors with same cross section)		
0.25 mm² 2.5 mm² (Ferrule with plastic sleeve)  nductor cross section flexible (2 conductors with same cross ection)  0.25 mm² 1.5 mm²  0.25 mm² 1.5 mm² (Ferrule without plastic sleeve)  0.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve)  1.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve)  1.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve)  1.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve)  1.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve)  1.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve)  1.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve)  1.5 mm² 1.5 mm² (TWIN ferrule without plastic sleeve)	Conductor cross section flexible	0.2 mm² 2.5 mm²	
0.25 mm² 2.5 mm² (Ferrule with plastic sleeve)  nductor cross section flexible (2 conductors with same cross ection)  0.25 mm² 1.5 mm²  0.25 mm² 1.5 mm² (Ferrule without plastic sleeve)  0.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve)  1.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve)  1.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve)  1.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve)  1.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve)  1.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve)  1.5 mm² 1.5 mm² (TWIN ferrule with plastic sleeve)  1.5 mm² 1.5 mm² (TWIN ferrule without plastic sleeve)		0.25 mm <sup>2</sup> 2.5 mm <sup>2</sup> (Ferrule without plastic sleeve)	
nductor cross section flexible (2 conductors with same cross  tition)  0.2 mm² 1.5 mm²  0.25 mm² 0.75 mm² (Ferrule without plastic sleev  0.5 mm² 1.5 mm² (TWIN ferrule with plastic sleev  0.5 Nm 0.6 Nm  24 12  thening torque  0.5 Nm 0.6 Nm  5.08 mm  ng  atus display present  no  sions  dimensions  dth  112.5 mm  77 mm		· · · · · · · · · · · · · · · · · · ·	
25 mm² 0.75 mm² (Ferrule without plastic sleev 0.5 mm² 1.5 mm² (TWIN ferrule with plastic sleev 1.5 mm² 1.5 mm² (TWIN ferrule with plastic sleev 1.5 mm² 1.5 mm² (TWIN ferrule with plastic sleev 1.5 mm² 1.5 mm² (TWIN ferrule with plastic sleev 1.5 mm² 1.5 mm² (TWIN ferrule with plastic sleev 1.5 mm² 1.5 mm² (TWIN ferrule with plastic sleev 1.5 mm² 1.5 mm² (TWIN ferrule with plastic sleev 1.5 mm² 1.5 mm² (TWIN ferrule with plastic sleev 1.5 mm² 1.5 mm² (TWIN ferrule with plastic sleev 1.5 mm² 1.5 mm² (TWIN ferrule with plastic sleev 1.5 mm² 1.5 mm² (TWIN ferrule with plastic sleev 1.5 mm² 1.5 mm² (TWIN ferrule with plastic sleev 1.5 mm² 1.5 mm² (TWIN ferrule with plastic sleev 1.5 mm² 1.5 mm² (TWIN ferrule with plastic sleev 1.5 mm² 1.5 mm² (TWIN ferrule with plastic sleev 1.5 mm² 1.5 mm² (TWIN ferrule with plastic sleev 1.5 mm²	Conductor cross section flexible (2 conductors with same cross		
0.5 mm² 1.5 mm² (TWIN ferrule with plastic sleev nductor cross section AWG 24 12 htening torque 0.5 Nm 0.6 Nm 5.08 mm  ng situs display present no sions dimensions dth 112.5 mm 77 mm	section)	0.25 mm² 0.75 mm² (Ferrule without plastic sleeve)	
nductor cross section AWG  24 12  thening torque  0.5 Nm 0.6 Nm  5.08 mm  ng  atus display present  no  sions  dimensions  dth  112.5 mm  77 mm		0.5 mm <sup>2</sup> 1.5 mm <sup>2</sup> (TWIN ferrule with plastic sleeve)	
sions  dimensions  difficulty and the second	onductor cross section AWG		
sions  dimensions  difficulty and the second	ghtening torque	0.5 Nm 0.6 Nm	
ng situs display present no sions dimensions dth 112.5 mm ight 77 mm	itch	5.08 mm	
sions  dimensions  dth 112.5 mm  ight 77 mm			
dimensions dth 112.5 mm 77 mm		no	
ight 112.5 mm 77 mm		no	
ight 77 mm	aling Status display present ensions	no	
	Status display present ensions n dimensions		
	Status display present ensions in dimensions Width	112.5 mm	
al specifications	nsions dimensions Vidth	112.5 mm 77 mm	
	Status display present  nsions  dimensions  Vidth  deight  Depth	112.5 mm 77 mm	
	Status display present  nsions  n dimensions  Vidth  Height  Depth  rial specifications	112.5 mm 77 mm 57.47 mm	
	Status display present ensions	112.5 mm 77 mm	
#III CONOMOUS	Status display present ensions In dimensions Width Height Depth Tial specifications Color Housing insulation material conmental and real-life conditions	112.5 mm 77 mm 57.47 mm green (RAL 6021)	
	Status display present ensions In dimensions Width Height Depth Irial specifications Color Housing insulation material commental and real-life conditions bient conditions	112.5 mm 77 mm 57.47 mm  green (RAL 6021) Polyamide 6 green	
gree of protection (Module) IP20	Status display present ensions In dimensions Width Height Depth Tial specifications Color Housing insulation material Fonmental and real-life conditions Degree of protection (Module)	112.5 mm 77 mm 57.47 mm  green (RAL 6021) Polyamide 6 green	
gree of protection (Module) IP20 gree of protection (Installation location) ≥ IP54	Status display present ensions In dimensions Width Height Depth  rial specifications Color Housing insulation material commental and real-life conditions bient conditions Degree of protection (Module) Degree of protection (Installation location)	112.5 mm  77 mm  57.47 mm  green (RAL 6021)  Polyamide 6 green  IP20 ≥ IP54	
gree of protection (Module)  gree of protection (Installation location)  ≥ IP54  abient temperature (operation)  -20 °C 50 °C	Status display present ensions In dimensions Width Height Depth  rial specifications Color Housing insulation material Fonmental and real-life conditions bient conditions Degree of protection (Module) Degree of protection (Installation location) Ambient temperature (operation)	112.5 mm  77 mm  57.47 mm  green (RAL 6021)  Polyamide 6 green  IP20 ≥ IP54 -20 °C 50 °C	
gree of protection (Module)  gree of protection (Installation location)  ≥ IP54  abient temperature (operation)  -20 °C 50 °C  -20 °C 70 °C	tatus display present  nsions  dimensions  //dth leight lepth  rial specifications  color lousing insulation material  commental and real-life conditions  pient conditions legree of protection (Module) legree of protection (Installation location)	112.5 mm  77 mm  57.47 mm  green (RAL 6021)  Polyamide 6 green  IP20 ≥ IP54  -20 °C 50 °C  -20 °C 70 °C	



2281157

https://www.phoenixcontact.com/gb/products/2281157

## Approvals

### UKCA

Certificate	UKCA-compliant	

### Standards and regulations

Air clearances and creepage distances

Standards/regulations	EN IEC 60664-1
-----------------------	----------------

## Mounting

Mounting type	DIN rail mounting	
Assembly note	in rows with zero spacing	
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.

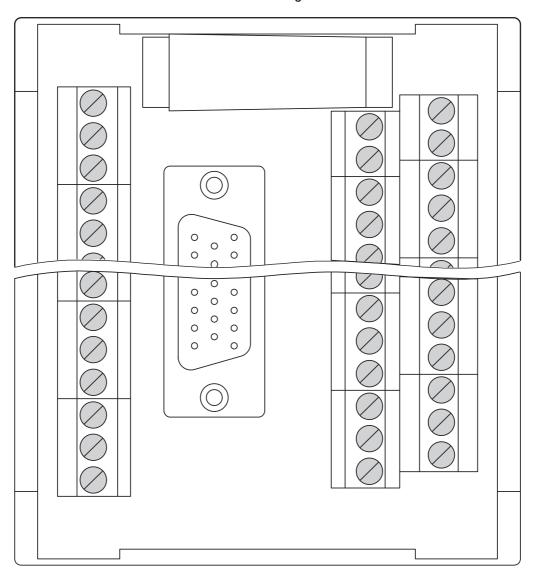


https://www.phoenixcontact.com/gb/products/2281157



# Drawings

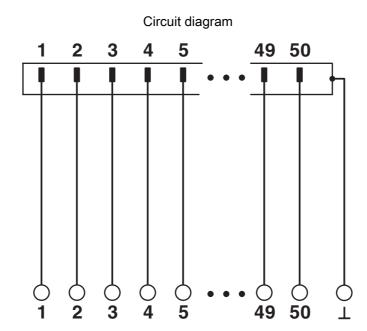
### Schematic diagram





https://www.phoenixcontact.com/gb/products/2281157







2281157

https://www.phoenixcontact.com/gb/products/2281157

# **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/2281157

. <b>51</b> 2	<b>cUL Recognized</b> Approval ID: E118976				
		Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Field wir	ring	125 V	2.5 A	30 - 12	-

7/	<b>UL Recognized</b> Approval ID: E118976				
		Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Field w	viring	125 V	2.5 A	30 - 12	-



2281157

https://www.phoenixcontact.com/gb/products/2281157

# Classifications

UNSPSC 21.0

	ECLASS-13.0	27141152			
ETIM					
	ETIM 9.0	EC002780			
UNSPSC					

39121400



2281157

https://www.phoenixcontact.com/gb/products/2281157

# Environmental product compliance

#### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions			
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%			

Phoenix Contact 2025 @ - all rights reserved https://www.phoenixcontact.com

PHOENIX CONTACT Ltd Halesfield 13, Telford Shropshire, TF7 4PG 01952 681700 info@phoenixcontact.co.uk