2702671

https://www.phoenixcontact.com/au/products/2702671

PHŒNIX CONTACT

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.



Axioline F, power measurement module, input voltage: up to 400 V AC (phase/neutral) or 690 V AC (phase/phase), input current: up to 5 A AC, transmission speed in local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

Product description

The module is designed for use within an Axioline F station. The power measurement module is used for direct measurement of AC currents up to 5 A, including neutral conductor current and phase conductor voltages up to 400 V AC (phase to neutral conductor) or outer conductor voltages up to 690 V AC (phase to phase). The module is used to perform analysis of AC power grids. You can use it in distribution systems for measuring current, voltage, and power, as well as detecting distortion and harmonics. You can use the power measurement module in two operating modes. In "R.m.s. Values" mode, the module acquires mains variables in three-phase mains. Mains variables are phase currents, neutral conductor current, phase and outer conductor voltages, real power, reactive power, and apparent power as well as the power factors of phases, energy flow directions, and frequency. In "Instantaneous Values" mode, the module acquires the instantaneous (scanning) values of a measuring signal. This measuring mode is used to analyze the waveform of the measuring signal.

Your advantages

- 4 inputs, 0 A AC ... 5 A AC for phase currents and neutral conductor current
- · 3 inputs for outer conductor voltages up to 690 V AC, supports direct connection
- · Harmonics analysis
- · Determination of maximum values
- Energy meter
- Process data update < 500 μs
- · Also suitable for use in IT networks

Commercial data

Item number	2702671
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DRI265
Product key	DRI265
Catalog page	Page 91 (C-6-2019)
GTIN	4055626364940
Weight per piece (including packing)	293.9 g
Weight per piece (excluding packing)	222 g
Customs tariff number	85389091
Country of origin	DE

2702671

https://www.phoenixcontact.com/au/products/2702671



Technical data

Dimensions

Dimensional drawing	
Width	53.6 mm
Height	126.1 mm
Depth	65.5 mm
Note on dimensions	The depth applies when a TH 35-7.5 DIN rail is used (in accordance with EN 60715).

Notes

Note on application	
Note on application	Only for industrial use
Utilization restriction	
EMC note	EMC: class A product, see manufacturer's declaration in the download area

Interfaces

Axioline F local bus	
Number of interfaces	2
Connection method	Bus base module
Transmission speed	100 Mbps

System properties

Module	
Input address area	64 Byte
Output address area	0 Byte
Required parameter data	52 Byte
Required configuration data	7 Byte

Product properties

Product type	I/O component
Product family	Axioline F
Туре	block modular
Mounting position	any (no temperature derating)
Operating mode	Process data mode with 32 words



2702671

https://www.phoenixcontact.com/au/products/2702671

Pollution degree	2
ectrical properties	
Maximum power dissipation for nominal condition	2.15 W
Potentials: Axioline F local bus supply (U _{Bus})	
Supply voltage	5 V DC (via bus base module)
Current draw	max. 80 mA
	typ. 73 mA
Electrical isolation/isolation of the voltage ranges	
Test voltage: 5 V supply for local bus (${\rm U}_{\rm Bus}$) / peripheral range AC	4 kV, 50 Hz, 1 min
Test voltage: 5 V supply of the local bus ($\mathrm{U}_{\mathrm{Bus}})$ / functional ground	500 V AC, 50 Hz, 1 min
onnection data	
Connection technology	
Connection name	Axioline F connector
Note on the connection method	Please observe the information provided on conductor cross sections in the "Axioline F: system and installation" user manual Only use reinforced or double-insulated conductors with a conductor cross section of 1.5 mm ² .
Axioline F connector	
Connection method	Push-in connection
Note on the connection method	Please observe the information provided on conductor cross sections in the "Axioline F: system and installation" user manual. Only use reinforced or double-insulated conductors with a conductor cross section of 1.5 mm ² .
Conductor cross section, rigid	1.5 mm ²
Conductor cross section, flexible	1.5 mm ²
Conductor cross section, flexible Conductor cross section AWG	1.5 mm ² 16
Conductor cross section AWG Stripping length	16
Conductor cross section AWG Stripping length	16
Conductor cross section AWG Stripping length nvironmental and real-life conditions	16
Conductor cross section AWG Stripping length nvironmental and real-life conditions Ambient conditions	16 8 mm

Air pressure (operation)	70 kPa 106 kPa (up to 3000 m above sea level, from HW 01)
Air pressure (storage/transport)	70 kPa 106 kPa (up to 3000 m above sea level)
Ambient temperature (storage/transport)	-40 °C 85 °C
Permissible humidity (operation)	5 % 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % 95 % (non-condensing)

Standards and regulations

2702671

https://www.phoenixcontact.com/au/products/2702671



	Protection class	П	
Mo	Mounting		
	Mounting type	DIN rail mounting	
	Mounting position	any (no temperature derating)	



2702671

https://www.phoenixcontact.com/au/products/2702671

Drawings



0

1 1

Dimensional drawing

Connection of a 3-phase load for power measurement in star connection with neutral conductor current

L1 L2 L3 N



2702671

https://www.phoenixcontact.com/au/products/2702671



Connection of a 3-phase load for power measurement in delta circuit



Connection of a 4-conductor grid with current transformers



2702671

https://www.phoenixcontact.com/au/products/2702671

Block diagram



Internal wiring of the terminal points



https://www.phoenixcontact.com/au/products/2702671



Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/au/products/2702671



CUL Listed
Approval ID: E357804

2702671

https://www.phoenixcontact.com/au/products/2702671



Classifications

ECLASS

	ECLASS-13.0	27242605	
ET	ETIM		
	ETIM 9.0	EC001601	
UNSPSC			
		00454000	
	UNSPSC 21.0	32151600	



https://www.phoenixcontact.com/au/products/2702671



Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes	
Exemption	7(c)-l	
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 PTY Ltd Unit 7, 2-8 South Street Rydalmere NSW 2116 1300 786 411 customerservice@phoenixcontact.com.au