



Communicative 24 V supply system

QUINT POWER and CAPAROC



Your advantages at a glance

Combine the power supply components from Phoenix Contact to create an overall concept and benefit from the advantages of system integration.

One central interface for OUINT POWER and CAPAROC

- · Rapid integration into the PROFINET network
- Easy and cost-effective integration of QUINT POWER into the network protocol of the CAPAROC circuit breaker system
- Complete data consistency from the 400 V primary side to the 24 V load supply

Quick and easy configuration

- · Direct adoption of the configuration from the control level
- · Saves time and avoids user errors

Reduce downtimes to a minimum

- The communicative system solution optimizes the data transparency of the entire system
- · Errors can be detected in good time, localized, and corrected

www.phoenixcontact.com/power-system

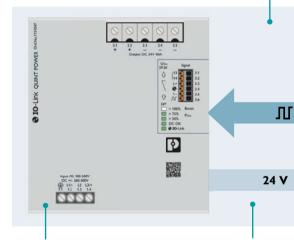
QUINT POWER power supply				
24 DC / 20 A	Туре	Input	WxHxD	
1	QUINT4-PS/ 3AC/24DC/20/IOL	3 x 320 V AC 550 V AC 2 x 360 V AC 550 V AC +/- 260 V DC 300 V DC	70 x 130 x 125 mm	
24 DC / 40 A	Туре	Input	WxHxD	
	QUINT4-PS/ 3AC/24DC/40/IOL	3 x 320 V AC 550 V AC 2 x 360 V AC 550 V AC +/- 260 V DC 300 V DC	120 x 130 x 125 mm	

CAPAROC circuit breaker				
	Туре	Description		
	CAPAROC power modules	With PROFINET interface for complete transparency of all data Status output, I >80% message Reset input		
	CAPAROC circuit breaker modules	1-channel: Maximum modularity with 4 protected outputs 2-channel: Read off currents directly and set conveniently via rotary switch 4-channel: Maximum space saving with protection per channel from just 3 mm		
2	CAPAROC potential distribution module	Direct integration into the system Plus and 0 V are established in pairs and are immediately recognizable via the color-coded pushers		
	CAPAROC current rails	Basic current rails Extension current rails		

Communicative supply system All data at a glance

General operating dataTemperatureOperational runtime

· Remaining service life

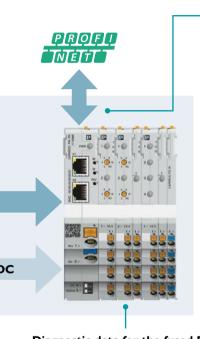


AC-side diagnostic data

- · 3 AC input voltage
- · Phase monitoring
- · Input frequency
- · Rotary field direction

DC-side diagnostic

- Current
- Voltage
- DC OK
- P<P_N



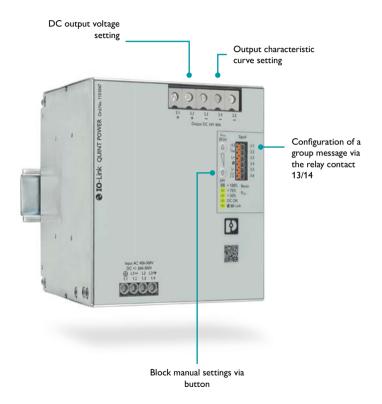
Digital rating plate

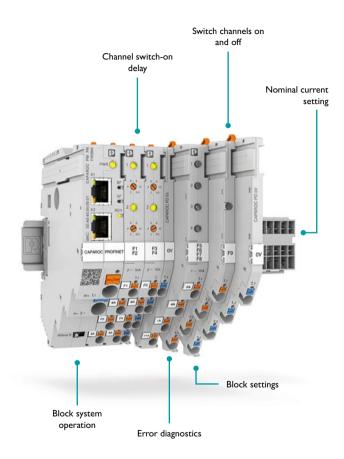
- Device IDs
- Order numbers
- · Serial numbers
- Revisions
- · Production data

Diagnostic data for the fused DC-side

- Status of all circuits
- · On, off, error message
- Early warning at channel current load >80%
- Flowing current
- Error memory

Direct configuration from the controller





QUINT POWER power supplies - your advantages

Most powerful output side

- Static boost of up to 125% for easy system extensions
- Startup of heavy loads with the dynamic boost of up to 200% over-dimensioning not necessary
- SFB Technology selectively trips standard miniature circuit breakers; loads connected in parallel remain in operation

Robust input side

- Mains buffering >20 ms
- High electrical immunity with integrated gas discharge tube (up to 6 kV)
- · Low inrush current

Long service life >> 15 years

- · High-quality components
- · Optimized arrangement and cooling concept
- Information on the remaining service life enables needs-based maintenance and effective replacement-part procurement

Easy system integration

 Direct integration into the CAPAROC circuit breaker system or OUINT4-UPS

Easy integration into all industrial networks

· With the integrated IO-Link interface

Quick and easy configuration

- · Direct adoption of the configuration via the IO-Link master
- · Time and cost savings during commissioning
- Minimization of the risk of user errors

Preventive function monitoring

- Comprehensive diagnostic options with evaluation of the input and output data as well as the remaining service life
- Critical operating states are reported before errors arise

Launch



SFB Technology

Designed by Phoenix Contact

IO-Link





CAPAROC circuit breakers – your advantages

The benchmark that you can tailor

- · Numerous possible combinations
- · Large selection of individual modules
 - Various power modules
 - 1-, 2-, and 4-channel circuit breaker modules
 - Potential distribution module
 - Current rails designed for modular extension
- · Unlimited compatibility of the modules
- · Can be extended at any time, even during ongoing operation
- · Future system extensions and upgrades
- · Will remain technologically state-of-the-art with future updates

Particularly simple operation

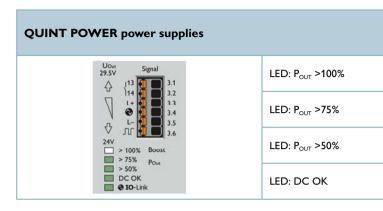
- · Plug and Play: Intuitive and fast system setup
- Tool-free mounting, installation, commissioning, and expansion
- Recognizable and clear visualization of the various states with color-coded LEDs
- · Large-surface marking options
- Intuitive wiring and clear assignment of plus and minus for each circuit with color-coded push-in contacts
- Tool-free maintenance without operational interruptions with the rear-sided supply of all modules

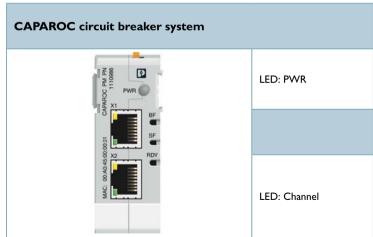
Simple and intuitive design-in

- Tailor your system in just two steps with the intuitive online configurator
- Digital services for your tailored system, from data sheets, through 3D files, all the way to marking and EPLAN files
- Order the entire system with just one individual order number



QUINT POWER and CAPAROC signaling





Further signaling options can be found in the QUINT POWER and CAPAROC data

Normal operation P _{OUT} <100% P _N	Boost P _{OUT} >100% P _N	Overload operation P _{OUT} <0.9 x U _{SET}
		-]
Normal operation 10 30 V DC	Beyond the operating voltage range	No operating voltage
	-	
Normal operation Channel switched on	Channel load I >80%	Overload/short circuit Channel switched off
		Triggered: Cooling phase Triggered: Ready for switch on

sheets.

Notes

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