

2907990

https://www.phoenixcontact.com/us/products/2907990

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Battery charger QUINT CHARGER, Screw connection, DIN rail mounting, input: 1-phase, output: 24 V DC / 10 A

Commercial data

Item number	2907990
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CM21
Product key	CMUI13
GTIN	4055626289434
Weight per piece (including packing)	1,238 g
Weight per piece (excluding packing)	942 g
Customs tariff number	85044083
Country of origin	CN



2907990

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Technical data

Product properties

Product type	Charger
Product family	QUINT CHARGER
MTBF (IEC 61709, SN 29500)	> 500000 h (230 V AC, at 40 °C)
Insulation characteristics	
Protection class	1
Degree of pollution	2
Electrical properties	
Number of phases	1.00

Number of phases

Input data

AC operation	
Input voltage range	100 V AC 240 V AC -15 % +10 %
Derating	< 90 V AC (2.5 %/V)
Frequency range (f _N)	50 Hz 60 Hz ±10 %
Current consumption	2.7 A (100 V AC)
	1.2 A (240 V AC)
Input fuse	6.3 A (internal (device protection), slow-blow)
Recommended breaker for input protection	10 A 16 A (AC: Characteristic B, C, D, K, or comparable)

DC operation

Input voltage range	110 V DC 250 V DC
Current consumption	2.4 A (110 V DC)
	1.1 A (250 V DC)

Digital Control (configurable)

Designation	Remote / Service
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Output data

Efficiency	89 %
	91 %
Nominal output voltage	24 V DC
Setting range of the output voltage (U_{Set})	19.2 V DC 28.6 V DC
Nominal output current (I _N)	10 A
Residual ripple	< 20 mV _{PP}
Short-circuit-proof	yes
No-load proof	yes
Output power	240 W
Maximum no-load power dissipation	< 4 W (for 230 V AC)
Power loss nominal load max.	< 35 W (for 230 V AC)



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Connection in parallel no Connection in series No Signal: U _{In} OK Output voltage 24 V DC Continuous load current 20 mA Signal ground SGnd Reference ground signal contacts Signal: BatVoltage OK Output voltage 24 V DC Continuous load current 20 mA Signal ground SGnd Reference ground signal contacts Signal: BatVoltage OK Output voltage 24 V DC Continuous load current 20 mA Signal ground SGnd Reference ground signal contacts Signal: Alarm Output voltage 24 V DC Continuous load current 20 mA Signal ground SGnd Reference ground signal contacts Energy storage Nominal voltage U _N 24 V DC Charging voltage max. 32 V DC Charging current typ. 10 A Nominal capacity range 7 Ah 300 Ah Battery technology VRLA, VRLA-WTR, LI-ION (LiFePO ₄) Charge characteristic curve		
Signal: U _{In} OK Output voltage 24 V DC Continuous load current 20 mA Signal ground SGnd Reference ground signal contacts Signal: BatVoltage OK Output voltage 24 V DC Continuous load current 20 mA Signal ground SGnd Reference ground signal contacts Signal: Alarm Output voltage 24 V DC Continuous load current 20 mA Signal: Alarm Output voltage 24 V DC Continuous load current 20 mA Signal ground SGnd Reference ground signal contacts Energy storage Nominal voltage U _N 24 V DC Charging voltage max. 32 V DC Charging current typ. 10 A Nominal capacity range 7 Ah 300 Ah Battery technology VRLA, VRLA-WTR, LI-ION (LiFePO ₄)	Connection in parallel	no
Output voltage Continuous load current 20 mA Signal ground SGnd Reference ground signal contacts Signal: BatVoltage OK Output voltage Continuous load current 20 mA Signal ground SGnd Reference ground signal contacts Signal ground SGnd Reference ground signal contacts Signal: Alarm Output voltage 24 V DC Continuous load current 20 mA Signal ground SGnd Reference ground signal contacts Signal ground SGnd Reference ground signal contacts Energy storage Nominal voltage U _N 24 V DC Charging voltage max. 32 V DC Charging current typ. 10 A Nominal capacity range Battery technology VRLA, VRLA-WTR, LI-ION (LiFePO ₄)	Connection in series	No
Output voltage 24 V DC Continuous load current 20 mA Signal ground SGnd Reference ground signal contacts Signal: BatVoltage OK Output voltage 24 V DC Continuous load current 20 mA Signal ground SGnd Reference ground signal contacts Signal: Alarm Output voltage 24 V DC Continuous load current 20 mA Signal ground SGnd Reference ground signal contacts Signal: Alarm Output voltage 24 V DC Continuous load current 20 mA Signal ground SGnd Reference ground signal contacts sinergy storage Nominal voltage U _N 24 V DC Charging voltage max. 32 V DC Charging current typ. 10 A Nominal capacity range 7 Ah 300 Ah Battery technology VRLA, VRLA-WTR, LI-ION (LiFePO ₄)	Signal, II. OV	
Continuous load current Signal ground SGnd Reference ground signal contacts Signal: BatVoltage OK Output voltage Continuous load current Signal ground SGnd Reference ground signal contacts Signal ground SGnd Reference ground signal contacts Signal: Alarm Output voltage 24 V DC Continuous load current 20 mA Signal ground SGnd Reference ground signal contacts Energy storage Nominal voltage U _N 24 V DC Charging voltage max. 32 V DC Charging current typ. 10 A Nominal capacity range 7 Ah 300 Ah Battery technology VRLA, VRLA-WTR, LI-ION (LiFePO ₄)		
Signal ground SGnd Reference ground signal contacts Signal: BatVoltage OK Output voltage 24 V DC Continuous load current 20 mA Signal ground SGnd Reference ground signal contacts Signal: Alarm Output voltage 24 V DC Continuous load current 20 mA Signal ground SGnd Reference ground signal contacts Inergy storage Nominal voltage U _N 24 V DC Charging voltage max. 32 V DC Charging current typ. 10 A Nominal capacity range 7 Ah 300 Ah Battery technology VRLA, VRLA-WTR, LI-ION (LiFePO ₄)	Output voltage	24 V DC
Signal: BatVoltage OK Output voltage 24 V DC Continuous load current 20 mA Signal ground SGnd Reference ground signal contacts Signal: Alarm Output voltage 24 V DC Continuous load current 20 mA Signal ground SGnd Reference ground signal contacts Energy storage Nominal voltage U _N 24 V DC Charging voltage max. 32 V DC Charging current typ. 10 A Nominal capacity range 7 Ah 300 Ah Battery technology VRLA, VRLA-WTR, LI-ION (LiFePO ₄)	Continuous load current	20 mA
Output voltage 24 V DC Continuous load current 20 mA Signal ground SGnd Reference ground signal contacts Signal: Alarm Output voltage 24 V DC Continuous load current 20 mA Signal ground SGnd Reference ground signal contacts Energy storage Nominal voltage U _N 24 V DC Charging voltage max. 32 V DC Charging current typ. 10 A Nominal capacity range 7 Ah 300 Ah Battery technology VRLA, VRLA-WTR, LI-ION (LiFePO ₄)	Signal ground SGnd	Reference ground signal contacts
Continuous load current Signal ground SGnd Reference ground signal contacts Signal: Alarm Output voltage 24 V DC Continuous load current 20 mA Signal ground SGnd Reference ground signal contacts Inergy storage Nominal voltage U _N 24 V DC Charging voltage max. 32 V DC Charging current typ. 10 A Nominal capacity range Pattery technology VRLA, VRLA-WTR, LI-ION (LiFePO ₄)	Signal: BatVoltage OK	
Signal ground SGnd Reference ground signal contacts Signal: Alarm Output voltage 24 V DC Continuous load current 20 mA Signal ground SGnd Reference ground signal contacts Energy storage Nominal voltage U _N 24 V DC Charging voltage max. 32 V DC Charging current typ. 10 A Nominal capacity range 7 Ah 300 Ah Battery technology VRLA, VRLA-WTR, LI-ION (LiFePO ₄)	Output voltage	24 V DC
Signal: Alarm Output voltage 24 V DC Continuous load current 20 mA Signal ground SGnd Reference ground signal contacts Energy storage Nominal voltage U _N 24 V DC Charging voltage max. 32 V DC Charging current typ. 10 A Nominal capacity range 7 Ah 300 Ah Battery technology VRLA, VRLA-WTR, LI-ION (LiFePO ₄)	Continuous load current	20 mA
Output voltage Continuous load current 20 mA Reference ground signal contacts Energy storage Nominal voltage U _N Charging voltage Charging current Vyp. 10 A Nominal capacity range Pattery technology 24 V DC The continuous load current Typ. 10 A VRLA, VRLA-WTR, LI-ION (LiFePO ₄)	Signal ground SGnd	Reference ground signal contacts
Continuous load current Signal ground SGnd Reference ground signal contacts Energy storage Nominal voltage U _N Charging voltage max. 32 V DC Charging current typ. 10 A Nominal capacity range 7 Ah 300 Ah Battery technology VRLA, VRLA-WTR, LI-ION (LiFePO ₄)	Signal: Alarm	
Signal ground SGnd Reference ground signal contacts Energy storage Nominal voltage U _N Charging voltage max. 32 V DC Charging current typ. 10 A Nominal capacity range 7 Ah 300 Ah Battery technology VRLA, VRLA-WTR, LI-ION (LiFePO ₄)	Output voltage	24 V DC
Energy storage Nominal voltage U _N Charging voltage max. 32 V DC Charging current typ. 10 A Nominal capacity range 7 Ah 300 Ah Battery technology VRLA, VRLA-WTR, LI-ION (LiFePO ₄)	Continuous load current	20 mA
Nominal voltage U _N Charging voltage max. 32 V DC Charging current typ. 10 A Nominal capacity range 7 Ah 300 Ah Battery technology VRLA, VRLA-WTR, LI-ION (LiFePO ₄)	Signal ground SGnd	Reference ground signal contacts
Charging voltage max. 32 V DC Charging current typ. 10 A Nominal capacity range 7 Ah 300 Ah Battery technology VRLA, VRLA-WTR, LI-ION (LiFePO ₄)	nergy storage	
Charging current typ. 10 A Nominal capacity range 7 Ah 300 Ah Battery technology VRLA, VRLA-WTR, LI-ION (LiFePO ₄)	Nominal voltage U _N	24 V DC
Nominal capacity range 7 Ah 300 Ah Battery technology VRLA, VRLA-WTR, LI-ION (LiFePO ₄)	Charging voltage	max. 32 V DC
Battery technology VRLA, VRLA-WTR, LI-ION (LiFePO ₄)	Charging current	typ. 10 A
	Nominal capacity range	7 Ah 300 Ah
Charge characteristic curve	Battery technology	VRLA, VRLA-WTR, LI-ION (LiFePO ₄)
	Charge characteristic curve	IU

Connection data

Input

Connection method	Screw connection
Conductor cross section, rigid min.	0.2 mm ²
Conductor cross section, rigid max.	2.5 mm²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm²
Single conductor/flexible terminal point with ferrule with plastic sleeve, min.	0.2 mm²
Single conductor/flexible terminal point with ferrule with plastic sleeve, max.	2.5 mm ²
Single conductor/flexible terminal point with ferrule without plastic sleeve, min.	0.2 mm ²
Single conductor/flexible terminal point with ferrule without plastic sleeve, max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Stripping length	6.5 mm
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm



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Output

Connection method	Screw connection
Conductor cross section, rigid min.	0.2 mm ²
Conductor cross section, rigid max.	2.5 mm²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm²
Single conductor/flexible terminal point with ferrule with plastic sleeve, min.	0.2 mm ²
Single conductor/flexible terminal point with ferrule with plastic sleeve, max.	2.5 mm ²
Single conductor/flexible terminal point with ferrule without plastic sleeve, min.	0.2 mm ²
Single conductor/flexible terminal point with ferrule without plastic sleeve, max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Stripping length	6.5 mm
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm

Signal

Connection method	Push-in connection
Conductor cross section, rigid min.	0.2 mm ²
Conductor cross section, rigid max.	1.5 mm²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	1.5 mm²
Single conductor/flexible terminal point with ferrule with plastic sleeve, min.	0.2 mm ²
Single conductor/flexible terminal point with ferrule with plastic sleeve, max.	1.5 mm ²
Single conductor/flexible terminal point with ferrule without plastic sleeve, min.	0.2 mm ²
Single conductor/flexible terminal point with ferrule without plastic sleeve, max.	1.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	16
Stripping length	8 mm

Interfaces

Interface	MINI-USB type B

Signaling

Signal output: Transistor output, active

Signalization designation	U _{In} OK
Status display	Green LED



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gnal output: Transistor output, active	
Signalization designation	BatVoltage OK
Status display	Green LED
ignal output: Transistor output, active	
Signalization designation	Alarm
Status display	LED red
ignal output	
Signalization designation	Reference potential for the signal inputs and outputs
nensions	
Width	60 mm
Height	130 mm
Depth	126 mm
nstallation dimensions	
Installation distance right/left	0 mm / 0 mm
Installation distance top/bottom	50 mm / 50 mm
Iternative assembly	
Width	123 mm
Height	130 mm
Depth	63 mm
terial specifications	
·	March
Housing material	Metal
Hood version	High-grade steel plate
Side element version	Aluminum

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C 70 °C (> 60 °C Derating: 2,5 %/K)
Ambient temperature (storage/transport)	-40 °C 85 °C
Maximum altitude	≤ 4000 m (> 2000 m, observe derating)
Climatic class	3K3 (EN 60721)
Max. permissible relative humidity (operation)	≤ 95 % (At +25°C, non-condensing)
Shock	30g, 18 ms in accordance with IEC 60068-2-27
Vibration (operation)	2 Hz 15 Hz, ±2.5 mm amplitude; 15 Hz 150 Hz, 2.3g

Approvals

UL approvals	UL Listed UL 61010-1
	UL/C-UL Listed ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C



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Low Voltage Directive Conformance with Low Voltage Directive 2014/35/EC Interference emission Interference emission in accordance with EN 61000-6-3 (residential and commercial) and EN 61000-6-4 (industrial) Noise immunity Immunity in accordance with EN 61000-6-2 (industrial) Electromagnetic compatibility Conducted noise emission EN 61000-6-3 (Class B) Noise emission EN 61000-6-3 (Class B) Armonic currents Frequency range 0 kHz 2 kHz ectrostatic discharge Standards/regulations EN 61000-4-2 ectrostatic discharge Contact discharge 6 kV (Test Level 3) Discharge in air Comments Criterion A ectromagnetic HF field Standards/regulations EN 61000-4-3 EN 61000-	Identification	UL Listed UL 61010
Interference emission	C data	
(residential and commercial) and EN 61000-6-4 (industrial) Immunity in accordance with EN 61000-6-2 (industrial) Immunity in accordance with EN 61000-6-2 (industrial) Electromagnetic compatibility	Low Voltage Directive	Conformance with Low Voltage Directive 2014/35/EC
Electromagnetic compatibility	Interference emission	Interference emission in accordance with EN 61000-6-3 (residential and commercial) and EN 61000-6-4 (industrial)
Conducted noise emission	Noise immunity	Immunity in accordance with EN 61000-6-2 (industrial)
Noise emission EN 61000-6-3 (Class B) Iarmonic currents Frequency range 0 kHz 2 kHz Idectrostatic discharge Standards/regulations EN 61000-4-2 Idectrostatic discharge Contact discharge 6 kV (Test Level 3) Discharge in air Comments Criterion A Idectromagnetic HF field Standards/regulations EN 61000-4-3 Idectromagnetic HF field Standards/regulations EN 61000-4-3 Idectromagnetic HF field Standards/regulations EN 61000-4-3 Idectromagnetic HF field Frequency range 80 MHz 1 GHz Test field strength 10 V/m (Test Level 3) Comments Criterion A Idectromagnetic HF field Standards/regulations EN 61000-4-4 Idectromagnetic HF field Standards/regulations EN 61000-4-4 Idectromagnetic HF field Standards/regulations EN 61000-4-4 Input 2 kV (Test Level 3 - asymmetrical) Comments Criterion B Input 2 kV (Test Level 2 - asymmetrical) Liver voltage load (surge) Standards/regulations EN 61000-4-5 Input 4 kV (Test Level 4 - symmetrical) 1 kV (Test Level 4 - asymmetrical) 1 kV (Test Level 4 - asymmetrical) 1 kV (Test Level 4 - asymmetrical) 1 kV (Test Level 4 - symmetrical) 1 kV (Test Level 3 - asymmetrical) 1 kV (Test Level 4 - symmetrical) 1 kV (Test Level 3 - asymmetrical)	Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Imput	Conducted noise emission	EN 61000-6-3 (Class B)
Frequency range	Noise emission	EN 61000-6-3 (Class B)
Standards/regulations	Harmonic currents	
Electrostatic discharge Electrostatic discharge 6 kV (Test Level 3)	Frequency range	0 kHz 2 kHz
Contact discharge	Electrostatic discharge	
Contact discharge 6 kV (Test Level 3)	Standards/regulations	EN 61000-4-2
Contact discharge 6 kV (Test Level 3)	Electrostatic discharge	
Discharge in air 8 kV (Test Level 3)	•	6 kV (Test Level 3)
Standards/regulations EN 61000-4-3 EN 61000-4-4 EN 61000-4-4 EN 61000-4-4 EN 61000-4-4 EN 61000-4-4 EN 61000-4-4 EN 61000-4-5 EN 61000-4-5 Input Comments EN 61000-4-5 Input EN 61000-4-5 Input EN 61000-4-5 Input EN 61000-4-5 Input A kV (Test Level 4 - symmetrical) A kV (Test Level 4 - asymmetrical) Output A kV (Test Level 4 - asymmetrical) Output EN 61000-4-5 Input A kV (Test Level 4 - symmetrical) Output A kV (Test Level 4 - symmetrical) Output A kV (Test Level 4 - asymmetrical) Output A kV (Test Level 4 - asymmetrical) Output A kV (Test Level 1 - symmetrical) Output EN 61000-4-5 Input A kV (Test Level 4 - asymmetrical) Output A kV (Test Level 1 - symmetrical) Output EN 61000-4-5 Input A kV (Test Level 3 - asymmetrical) Output A kV (Test Level 3 - asymmetrical)		8 kV (Test Level 3)
Electromagnetic HF field	Comments	Criterion A
Electromagnetic HF field		
Sector Field		EN 61000 4 2
Frequency range 80 MHz 1 GHz Test field strength 10 V/m (Test Level 3) Comments Criterion A ast transients (burst) EN 61000-4-4 Standards/regulations EN 61000-4-4 Input 2 kV (Test Level 3 - asymmetrical) Output 1 kV (Test Level 2 - asymmetrical) Signal 1 kV (Test Level 2 - asymmetrical) Comments Criterion B Standards/regulations EN 61000-4-5 Input 2 kV (Test Level 4 - symmetrical) A kV (Test Level 4 - asymmetrical) 4 kV (Test Level 1 - symmetrical) Output 1 kV (Test Level 3 - asymmetrical)	Standards/regulations	LI4 01000-4-5
Test field strength 10 V/m (Test Level 3) Comments Criterion A ast transients (burst) Standards/regulations EN 61000-4-4 ast transients (burst) Input 2 kV (Test Level 3 - asymmetrical) Output 1 kV (Test Level 2 - asymmetrical) Signal 1 kV (Test Level 2 - asymmetrical) Comments Criterion B Surge voltage load (surge) Standards/regulations EN 61000-4-5 Input 2 kV (Test Level 4 - symmetrical) 4 kV (Test Level 4 - asymmetrical) Output 1 kV (Test Level 4 - asymmetrical) Output 2 kV (Test Level 4 - asymmetrical) A kV (Test Level 4 - asymmetrical) Output 1 kV (Test Level 3 - asymmetrical)	Electromagnetic HF field	
Comments Criterion A Standards/regulations EN 61000-4-4 Sast transients (burst) Input Output 1 kV (Test Level 3 - asymmetrical) Signal 1 kV (Test Level 2 - asymmetrical) Comments Criterion B Surge voltage load (surge) Standards/regulations EN 61000-4-5 Input 2 kV (Test Level 4 - symmetrical) 4 kV (Test Level 4 - asymmetrical) Output 1 kV (Test Level 4 - asymmetrical) 2 kV (Test Level 4 - asymmetrical) 1 kV (Test Level 4 - asymmetrical) 2 kV (Test Level 1 - symmetrical) 2 kV (Test Level 3 - asymmetrical)	Frequency range	80 MHz 1 GHz
Standards/regulations EN 61000-4-4 EN 61000-4-4 EN 61000-4-4 EN 61000-4-4 EN 61000-4-5 EN 61000-4-5 Input EN 61000-4-5 Input	Test field strength	10 V/m (Test Level 3)
Standards/regulations EN 61000-4-4 ast transients (burst) Input 2 kV (Test Level 3 - asymmetrical) Output 1 kV (Test Level 2 - asymmetrical) Signal 1 kV (Test Level 2 - asymmetrical) Comments Criterion B Surge voltage load (surge) Standards/regulations EN 61000-4-5 Input 2 kV (Test Level 4 - symmetrical) 4 kV (Test Level 4 - asymmetrical) Output 1 kV (Test Level 1 - symmetrical) 2 kV (Test Level 3 - asymmetrical)	Comments	Criterion A
First transients (burst) Input 2 kV (Test Level 3 - asymmetrical) 1 kV (Test Level 2 - asymmetrical) Signal 1 kV (Test Level 2 - asymmetrical) Comments Criterion B Standards/regulations EN 61000-4-5 Input 2 kV (Test Level 4 - symmetrical) 4 kV (Test Level 4 - asymmetrical) Output 1 kV (Test Level 1 - symmetrical) 2 kV (Test Level 3 - asymmetrical) 2 kV (Test Level 3 - asymmetrical)	ast transients (burst)	
Input 2 kV (Test Level 3 - asymmetrical) Output 1 kV (Test Level 2 - asymmetrical) Signal 1 kV (Test Level 2 - asymmetrical) Comments Criterion B Standards/regulations EN 61000-4-5 Input 2 kV (Test Level 4 - symmetrical) 4 kV (Test Level 4 - asymmetrical) Output 1 kV (Test Level 1 - symmetrical) 2 kV (Test Level 3 - asymmetrical)	Standards/regulations	EN 61000-4-4
Output 1 kV (Test Level 2 - asymmetrical) Signal 1 kV (Test Level 2 - asymmetrical) Comments Criterion B Surge voltage load (surge) Standards/regulations EN 61000-4-5 Input 2 kV (Test Level 4 - symmetrical) 4 kV (Test Level 4 - asymmetrical) Output 1 kV (Test Level 1 - symmetrical) 2 kV (Test Level 3 - asymmetrical)	ast transients (burst)	
Signal 1 kV (Test Level 2 - asymmetrical) Comments Criterion B Surge voltage load (surge) Standards/regulations EN 61000-4-5 Input 2 kV (Test Level 4 - symmetrical) 4 kV (Test Level 4 - asymmetrical) Output 1 kV (Test Level 1 - symmetrical) 2 kV (Test Level 3 - asymmetrical)	Input	2 kV (Test Level 3 - asymmetrical)
Comments Criterion B Surge voltage load (surge) Standards/regulations EN 61000-4-5 Input 2 kV (Test Level 4 - symmetrical) 4 kV (Test Level 4 - asymmetrical) 1 kV (Test Level 1 - symmetrical) 2 kV (Test Level 3 - asymmetrical)	Output	1 kV (Test Level 2 - asymmetrical)
Standards/regulations EN 61000-4-5 Input 2 kV (Test Level 4 - symmetrical) 4 kV (Test Level 4 - asymmetrical) Output 1 kV (Test Level 1 - symmetrical) 2 kV (Test Level 3 - asymmetrical)	Signal	1 kV (Test Level 2 - asymmetrical)
Standards/regulations EN 61000-4-5 Input 2 kV (Test Level 4 - symmetrical) 4 kV (Test Level 4 - asymmetrical) Output 1 kV (Test Level 1 - symmetrical) 2 kV (Test Level 3 - asymmetrical)	Comments	Criterion B
Standards/regulations EN 61000-4-5 Input 2 kV (Test Level 4 - symmetrical) 4 kV (Test Level 4 - asymmetrical) Output 1 kV (Test Level 1 - symmetrical) 2 kV (Test Level 3 - asymmetrical)	Surge voltage load (surge)	
Input 2 kV (Test Level 4 - symmetrical) 4 kV (Test Level 4 - asymmetrical) Output 1 kV (Test Level 1 - symmetrical) 2 kV (Test Level 3 - asymmetrical)		EN 61000-4-5
Output 4 kV (Test Level 4 - asymmetrical) 1 kV (Test Level 1 - symmetrical) 2 kV (Test Level 3 - asymmetrical)		
Output 1 kV (Test Level 1 - symmetrical) 2 kV (Test Level 3 - asymmetrical)		
2 kV (Test Level 3 - asymmetrical)	Output	
	Signal	



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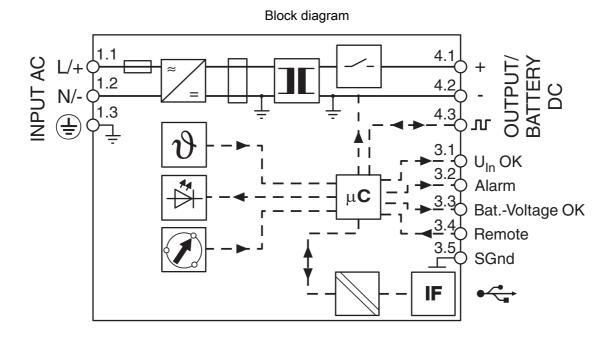
Comments	
Comments	Criterion B
Conducted interference	
Standards/regulations	EN 61000-4-6
Conducted interference	
I/O/S	asymmetrical
Frequency range	0.15 MHz 80 MHz
Comments	Criterion A
Voltage	10 V (Test Level 3)
Criteria	
Criterion A	Normal operating behavior within the specified limits.
Criterion B	Temporary impairment to operational behavior that is corrected by the device itself.
andards and regulations	
Standard - Safety extra-low voltage	IEC 61010 (SELV) / (PELV)
·	IEC 61010 (SELV) / (PELV) DIN VDE 0100-410
Standard – Safety extra-low voltage	
Standard – Safety extra-low voltage Standard - Safe isolation Standard - safety for equipment for measurement, control, and	DIN VDE 0100-410
Standard – Safety extra-low voltage Standard - Safe isolation Standard - safety for equipment for measurement, control, and laboratory use	DIN VDE 0100-410
Standard – Safety extra-low voltage Standard - Safe isolation Standard - safety for equipment for measurement, control, and laboratory use Overvoltage category	DIN VDE 0100-410 IEC 61010-1



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Drawings





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Approvals

🎨 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2907990



cULus Listed



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	21052901
ECLASS-12.0	21052901
ECLASS-13.0	21052901
ETIM	
ETIM 8.0	EC001184
UNSPSC	

26111700



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Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 25;
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"



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Accessories

MINI-SCREW-USB-DATACABLE - Data cable

2908217

https://www.phoenixcontact.com/us/products/2908217



Used for communication between an industrial PC and Phoenix Contact devices with USB-Mini-B connection.

UWA 130 - Mounting adapter

2901664

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2-piece universal wall adapter for securely mounting the device in the event of strong vibrations. The profiles that are screwed onto the side of the device are screwed directly onto the mounting surface. The universal wall adapter is attached on the left/right.



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UWA 182/52 - Mounting adapter

2938235

https://www.phoenixcontact.com/us/products/2938235



Universal wall adapter for securely mounting the device in the event of strong vibrations. The device is screwed directly onto the mounting surface. The universal wall adapter is attached on the top/bottom.

UPS-BAT/PB/24DC/7AH - Energy storage

1274118

https://www.phoenixcontact.com/us/products/1274118



Energy storage, VRLA-AGM, 24 V DC, 7 Ah, automatic detection and communication with QUINT UPS-IQ



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UPS-BAT/PB/24DC/12AH - Energy storage

1274119

https://www.phoenixcontact.com/us/products/1274119



Energy storage, VRLA-AGM, 24 V DC, 12 Ah, automatic detection and communication with QUINT UPS-IQ

UPS-BAT/PB/24DC/20AH - Energy storage

1348516

https://www.phoenixcontact.com/us/products/1348516



Energy storage, VRLA-AGM, 24 V DC, 20 Ah, automatic detection and communication with QUINT UPS-IQ



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UPS-BAT/PB/24DC/40AH - Energy storage

1354641

https://www.phoenixcontact.com/us/products/1354641



Energy storage, VRLA-AGM, 24 V DC, 40 Ah, automatic detection and communication with QUINT UPS-IQ

UPS-BAT/VRLA-WTR/24DC/13AH - Energy storage

2320416

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Energy storage device, lead AGM, VRLA technology, 24 V DC, 13 Ah, tool-free battery replacement, automatic detection, and communication with QUINT UPS-IQ



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UPS-BAT/VRLA-WTR/24DC/26AH - Energy storage

2320429

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Energy storage device, lead AGM, VRLA technology, 24 V DC, 26 Ah, tool-free battery replacement, automatic detection, and communication with QUINT UPS-IQ

UPS-BAT/LI-ION/24DC/120WH - Energy storage

2320351

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Energy storage device, LI-ION technology, 24 V DC, 120 Wh, for ambient temperatures of -20°C ... 60° C, automatic detection and communication with QUINT UPS-IQ



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UPS-BAT/LI-ION/24DC/924WH - Energy storage

2908232

https://www.phoenixcontact.com/us/products/2908232



Energy storage device, LI-ION technology, 24 V DC, 924 Wh, for ambient temperatures of -25 $^{\circ}$ C ... 60 $^{\circ}$ C, automatic detection and communication with QUINT UPS-IQ

RIF-1-BPT/2X21 - Relay base

2900931

https://www.phoenixcontact.com/us/products/2900931



Relay base RIF-1..., for miniature power relay with 1 or 2 changeover contacts or solid-state relays of the same design, Push-in connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5



2907990

https://www.phoenixcontact.com/us/products/2907990

REL-MR- 24DC/21HC - Single relay

2961312

https://www.phoenixcontact.com/us/products/2961312



Plug-in miniature power relay, with power contact for high continuous currents, 1 changeover contact, input voltage 24 V DC

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