

# ASI QUINT 100-240/4.8 EFD - Power supply



2736699

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Power supply unit für AS interface, 4.8 A, integrated ground fault detector, IP20 degree of protection

## Product description

Power supply unit for AS-Interface systems. Special modules with an output voltage range of 29.5 V - 31.6 V DC are used to supply the AS-Interface systems. The AS-i system also requires a data decoupling network in the power supply unit in order to be able to transmit communication signals along the power line. The ASI QUINT 100-240/2.4 EFD can supply an AS-i system with up to 2.4 A.

Safety through automatic ground fault detection: if two ground faults occur in an AS-i system, this can cause the machines to inadvertently start up or not to be able to stop operation. The ASI QUINT has an integrated ground fault detection function. A ground fault is signaled via LED and via an alarm output.

## Your advantages

- Integrated filters ensure that the modulated data flow is not affected
- Integrated ground-fault monitoring signals short circuits on the secondary side
- Wide-range input for operation on all common AC and DC networks

## Commercial data

Item number	2736699
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DR03
Product key	DRI6N1
GTIN	4017918959685
Weight per piece (including packing)	1,254 g
Weight per piece (excluding packing)	900 g
Customs tariff number	85044030
Country of origin	TH

## Technical data

### Input data

Nominal input voltage range	100 V AC ... 240 V AC
Input voltage range AC	85 V AC ... 264 V AC
Input voltage range DC	90 V DC ... 350 V DC
Inrush current	< 15 A (typical)
Inrush current integral ( $I^2t$ )	2.2 A <sup>2</sup> s
AC frequency range	45 Hz ... 65 Hz
Frequency range DC	0 Hz
Mains buffering time	> 60 ms (120 V AC) > 100 ms (230 V AC)
Current consumption	approx. 1.8 A (120 V AC) 1 A (230 V AC)
Nominal power consumption	144 W
Typical response time	< 0.5 s
Input fuse	5 A (slow-blow, internal)
Permissible backup fuse	B6 B10 B16
Recommended breaker for input protection	6 A ... 16 A (Characteristics B, C, D, K)

### Output data

Efficiency	> 89 % (for 230 V AC and nominal values)
Nominal output voltage	30.1 V DC $\pm$ 1.5 %
Nominal output current ( $I_N$ )	4.8 A
Residual ripple	< 30 mV <sub>PP</sub>
Output power	144 W
Peak switching voltages nominal load	< 50 mV <sub>PP</sub>
Maximum no-load power dissipation	4 W
Power loss nominal load max.	16 W
Connection in parallel	no
Connection in series	yes

### Signal: EFD floating

Maximum switching voltage	$\leq$ 30 V AC/DC
Output voltage	$\leq$ 30 V AC/DC
Maximum inrush current	$\leq$ 1 A
Continuous load current	$\leq$ 1 A

### Connection data

#### Input

Connection method	Pluggable spring-cage connection
Conductor cross-section, rigid min.	0.2 mm <sup>2</sup>
Conductor cross-section, rigid max.	2.5 mm <sup>2</sup>

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Conductor cross-section flexible min.	0.2 mm <sup>2</sup>
Conductor cross-section flexible max.	2.5 mm <sup>2</sup>
Conductor cross-section AWG min.	24
Conductor cross-section AWG max.	12
Stripping length	10 mm
Screw thread	M3

## Output

Connection method	Spring-cage connection
Conductor cross-section, rigid min.	0.2 mm <sup>2</sup>
Conductor cross-section, rigid max.	2.5 mm <sup>2</sup>
Conductor cross-section flexible min.	0.2 mm <sup>2</sup>
Conductor cross-section flexible max.	2.5 mm <sup>2</sup>
Conductor cross-section AWG min.	24
Conductor cross-section AWG max.	12
Screw thread	M3

## Signal

Conductor cross-section, rigid min.	0.2 mm <sup>2</sup>
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Conductor cross-section flexible min.	0.2 mm <sup>2</sup>
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Conductor cross-section AWG min.	24
Conductor cross-section AWG max.	12
Screw thread	M3

## Signaling

Types of signaling	LED
Operating voltage display	LED

### Signal output: EFD floating

Status display	LED "EFD" red
Note on status display	$U_{OUT} < 0.9 \times U_N$ : LED flashing

### Signal output: EFD status display

Status display	LED "EFD" red
Note on status display	Ground fault detected: LED flashing

### Signal output: DC OK, status indicator

Status display	"DC OK" LED green
Note on status display	$U_{OUT} < 0.9 \times U_N$ : LED flashing

## Electrical properties

Insulation voltage input/output	4 kV AC (type test)
	2 kV AC (routine test)

## Product properties

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Product type	Power supply
MTBF (IEC 61709, SN 29500)	> 500000 h

## Dimensions

Width	70 mm
Height	145 mm
Depth	125 mm

## Alternative assembly

Width	122 mm
Height	145 mm
Depth	73 mm

## Mounting

Assembly note	alignable: horizontally 0 mm, vertically 50 mm
Mounting position	horizontal DIN rail NS 35, EN 60715

## Material specifications

Type of housing	AluNox (AlMg1)
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 70 °C (> 60 °C Derating: 2,5 %/K)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	95 % (at 25 °C, non-condensing)

## Standards and regulations

Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations	EN 50178/VDE 0160 (PELV)
Standard – Limitation of mains harmonic currents	EN 61000-3-2
Standard - Electrical safety	EN 60950-1/VDE 0805 (SELV) DIN VDE 0100-410
Standard - Safe isolation	DIN VDE 0100-410 DIN VDE 0106-1010
Standard - Safety of transformers	EN 61558-2-17

## Approvals

UL approvals	UL/C-UL listed UL 508 UL/C-UL Recognized UL 60950-1
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### Conformity/Approvals

SIL in accordance with IEC 61508	0
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## EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
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Low Voltage Directive	Conformance with Low Voltage Directive 2014/35/EC
Noise immunity	EN 61000-6-2

## Electrostatic discharge

Contact discharge	4 kV (Test Level 2)
Discharge in air	8 kV (Test Level 3)
Comments	Criterion B

## Electromagnetic HF field

Standards/regulations	EN 61000-4-3
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## Electromagnetic HF field

Frequency range	80 MHz ... 1 GHz
Test field strength	10 V/m
Frequency range	1.4 GHz ... 2 GHz
Test field strength	3 V/m
Frequency range	2 GHz ... 2.7 GHz
Test field strength	1 V/m
Comments	Criterion A

## Fast transients (burst)

Standards/regulations	EN 61000-4-4
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## Fast transients (burst)

Input	2 kV (Test Level 3 - asymmetrical)
Output	2 kV (Test Level 3 - asymmetrical)
Signal	1 kV (Test Level 3 - asymmetrical)
Comments	Criterion B

## Surge current load (surge)

Input	1 kV (Test Level 2 - symmetrical)
	2 kV (Test Level 3 - asymmetrical)
Output	0.5 kV (Test Level 1 - symmetrical)
	0.5 kV (Test Level 1 - asymmetrical)
Signal	1 kV (Test Level 2 - asymmetrical)
Comments	Criterion B

## Conducted interference

Standards/regulations	EN 61000-4-6
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## Conducted interference

Input/output/signal	asymmetrical
Frequency range	0.15 MHz ... 80 MHz
Comments	Criterion A
Voltage	10 V (Test Level 3)

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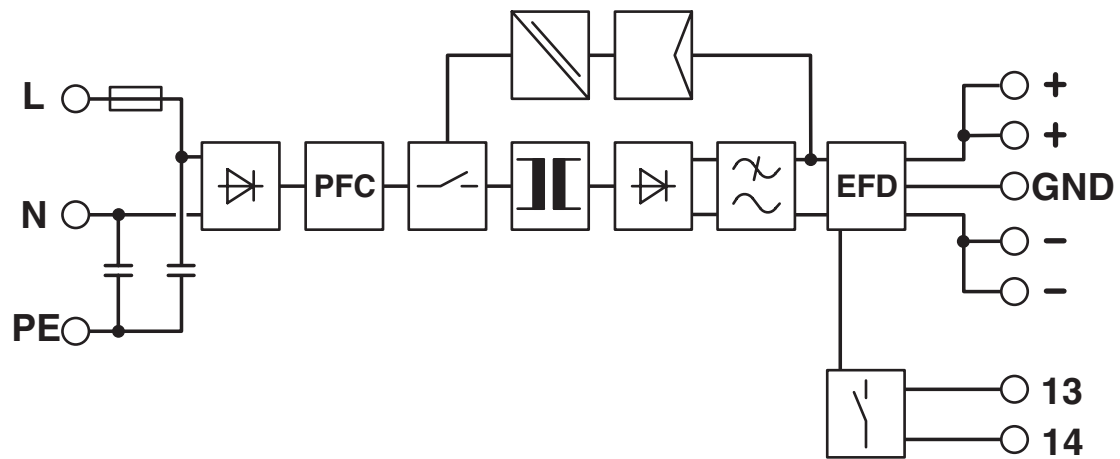


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## Drawings

Block diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2736699>



**cUL Recognized**  
Approval ID: E211944



**UL Recognized**  
Approval ID: E211944



**IECEE CB Scheme**  
Approval ID: DE/PTZ/0079



**UL Listed**  
Approval ID: FILE E 123528



**cUL Listed**  
Approval ID: FILE E 123528



**ASI-Interface**  
Approval ID: 56301/ 14.06.04

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## Classifications

### ECLASS

ECLASS-13.0	27242611
ECLASS-15.0	27242611

### ETIM

ETIM 10.0	EC002583
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### UNSPSC

UNSPSC 21.0	39121000
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-25
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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