

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



2736699

<https://www.phoenixcontact.com/us/products/2736699>

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.



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>

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



2736699

<https://www.phoenixcontact.com/us/products/2736699>

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>
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

## 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

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



2736699

<https://www.phoenixcontact.com/us/products/2736699>

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)
-----------------	----------------

## 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
--------------	--

### Conformity/Approvals

SIL in accordance with IEC 61508	0
----------------------------------	---

## EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
-------------------------------	---

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



2736699

<https://www.phoenixcontact.com/us/products/2736699>

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
-----------------------	--------------

## 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
-----------------------	--------------

## 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
-----------------------	--------------

## Conducted interference

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

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

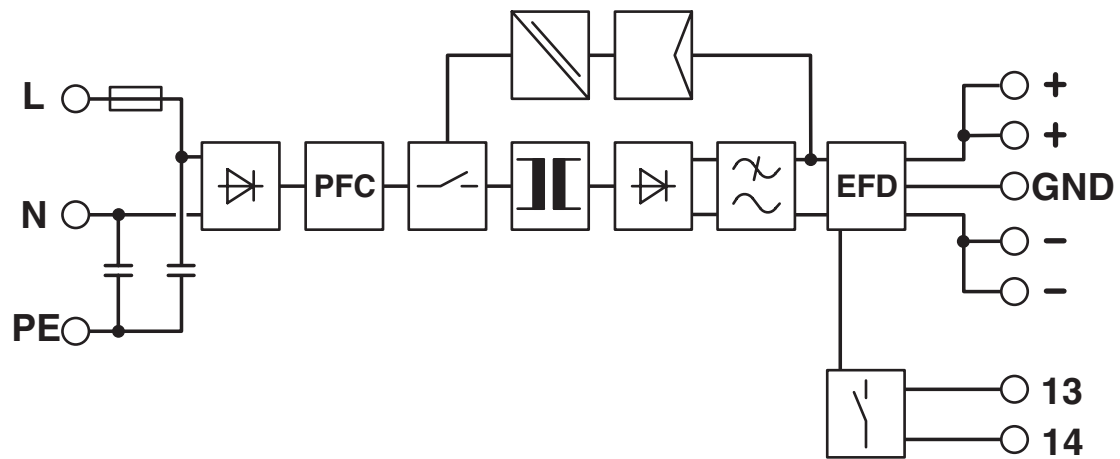


2736699

<https://www.phoenixcontact.com/us/products/2736699>

## Drawings

Block diagram



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



2736699

<https://www.phoenixcontact.com/us/products/2736699>

## 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

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



2736699

<https://www.phoenixcontact.com/us/products/2736699>

## Classifications

### ECLASS

ECLASS-13.0	27242611
ECLASS-15.0	27242611

### ETIM

ETIM 10.0	EC002583
-----------	----------

### UNSPSC

UNSPSC 21.0	39121000
-------------	----------

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



2736699

<https://www.phoenixcontact.com/us/products/2736699>

## 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)
-------------------------------------	----------------------

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)