

# Power supply unit - ASI QUINT 100-240/2.4 EFD - 2736686

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Power supply unit für AS interface, 2.4 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.

## Product Features

- 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



## Key commercial data

package_quantity	1
GTIN	4017918959678

## Technical data

### Dimensions

Width	55 mm
Height	145 mm
Depth	125 mm
Width with alternative assembly	122 mm
Height with alternative assembly	145 mm
Depth with alternative assembly	58 mm

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 70 °C (> 60 °C derating)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	95 % (at 25 °C, no condensation)
Noise immunity	EN 61000-6-2:2005

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## 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
AC frequency range	45 Hz ... 65 Hz
Frequency range DC	0 Hz
Current consumption	approx. 1 A (120 V AC)
Current consumption	0.5 A (230 V AC)
Nominal power consumption	72 W
Inrush surge current	< 15 A (typical)
Power failure bypass	> 20 ms (120 V AC)
Power failure bypass	> 80 ms (230 V AC)
Input fuse	5 A (slow-blow, internal)

### Output data

Nominal output voltage	30.1 V DC $\pm$ 1,5 %
Output current	2.4 A (Up to +60°C)
Output current	3 A (with POWER BOOST)
Connection in parallel	No
Connection in series	Yes
Residual ripple	< 30 mV <sub>PP</sub>
Peak switching voltages nominal load	< 50 mV <sub>PP</sub>
Maximum power dissipation NO-Load	3 W
Power loss nominal load max.	11 W

### General

Net weight	0.75 kg
Operating voltage display	LED
Efficiency	> 86 % (for 230 V AC and nominal values)
Insulation voltage input/output	4 kV AC (type test)
Insulation voltage input/output	2 kV AC (routine test)
Protection class	I, IEC 61140, EN 61140, VDE 0140-1
MTBF (IEC 61709, SN 29500)	> 500000 h
Mounting position	horizontal DIN rail NS 35, EN 60715
Assembly instructions	Can be aligned: Horizontally 0 mm, vertically 50 mm
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Low Voltage Directive	Conformance with LV directive 2006/95/EC
Standard - Safety of transformers	EN 61558-2-17
Standard - Electrical safety	EN 60950-1/VDE 0805 (SELV)
Standard - Electrical safety	DIN VDE 0100-410
Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations	EN 50178/VDE 0160 (PELV)
Standard - Safe isolation	DIN VDE 0100-410

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## Technical data

### General

<b>Standard - Safe isolation</b>	DIN VDE 0106-1010
<b>Standard – Limitation of mains harmonic currents</b>	EN 61000-3-2
<b>UL approvals</b>	UL/C-UL listed UL 508
<b>UL approvals</b>	UL/C-UL Recognized UL 60950

### Connection data, input

<b>Connection method</b>	Pluggable spring-cage connection
<b>Conductor cross section solid min.</b>	0.2 mm <sup>2</sup>
<b>Conductor cross section solid max.</b>	2.5 mm <sup>2</sup>
<b>Conductor cross section stranded min.</b>	0.2 mm <sup>2</sup>
<b>Conductor cross section stranded max.</b>	2.5 mm <sup>2</sup>
<b>Conductor cross section AWG/kcmil min.</b>	24
<b>Conductor cross section AWG/kcmil max</b>	14
<b>Stripping length</b>	9 mm
<b>Screw thread</b>	M3

### Connection data, output

<b>Conductor cross section solid min.</b>	0.2 mm <sup>2</sup>
<b>Conductor cross section solid max.</b>	2.5 mm <sup>2</sup>
<b>Conductor cross section stranded min.</b>	0.2 mm <sup>2</sup>
<b>Conductor cross section stranded max.</b>	2.5 mm <sup>2</sup>
<b>Conductor cross section AWG/kcmil min.</b>	24
<b>Conductor cross section AWG/kcmil max</b>	12

## classifications

### eCl@ss

<b>eCl@ss 4.0</b>	27250202
<b>eCl@ss 4.1</b>	27250202
<b>eCl@ss 5.0</b>	27259205
<b>eCl@ss 5.1</b>	27242692
<b>eCl@ss 6.0</b>	27242692
<b>eCl@ss 7.0</b>	27242692
<b>eCl@ss 8.0</b>	27242692

### ETIM

<b>ETIM 2.0</b>	EC001039
<b>ETIM 3.0</b>	EC001039
<b>ETIM 4.0</b>	EC002542
<b>ETIM 5.0</b>	EC002542

### UNSPSC

<b>UNSPSC 6.01</b>	43172015
<b>UNSPSC 7.0901</b>	43201404

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## classifications

### UNSPSC

UNSPSC 11	39121004
UNSPSC 12.01	39121004
UNSPSC 13.2	39121004

## approvals

UL Recognized / UL Listed / cUL Recognized / GOST / cUL Listed / ASI-Interface / IECEE CB Scheme / cULus Recognized / cULus Listed /

### Approval details

UL Recognized

UL Listed

cUL Recognized

GOST

cUL Listed

ASI-Interface

IECEE CB Scheme

cULus Recognized

## Power supply unit - ASI QUINT 100-240/2.4 EFD - 2736686

approvals

cULus Listed 

accessories

### Assembly adapter

UWA 182/52 - 2938235

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QUINT-PS-ADAPTERS7/1 - 2938196



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QUINT-PS-ADAPTERS7/2 - 2938206



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### Mounting rail adapter

UTA 107 - 2853983

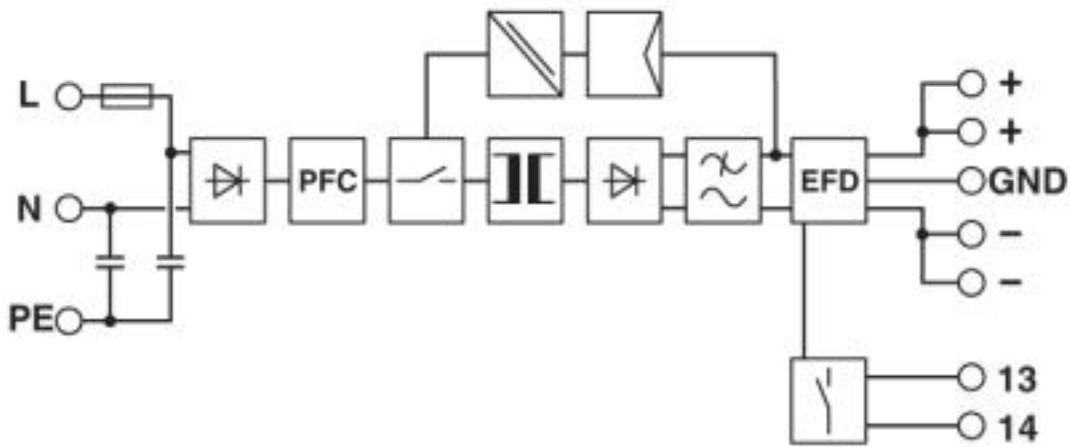


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Drawings

# Power supply unit - ASI QUINT 100-240/2.4 EFD - 2736686

Block diagram



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