

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

## 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	4017918959685

## Technical data

### Dimensions

Width	70 mm
Height	145 mm
Depth	125 mm
Width with alternative assembly	122 mm
Height with alternative assembly	145 mm
Depth with alternative assembly	73 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, non-condensing)
Noise immunity	EN 61000-6-2:2005

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## Technical data

### Input data

<b>AC frequency range</b>	45 Hz ... 65 Hz
<b>Frequency range DC</b>	0 Hz
<b>Current consumption</b>	approx. 1.8 A (120 V AC)
<b>Current consumption</b>	1 A (230 V AC)
<b>Nominal power consumption</b>	144 W
<b>Inrush surge current</b>	< 15 A (typical)
<b>Power failure bypass</b>	> 60 ms (120 V AC)
<b>Power failure bypass</b>	> 100 ms (230 V AC)
<b>Input fuse</b>	5 A (slow-blow, internal)
<b>Choice of suitable fuses</b>	6 A ... 16 A (Characteristics B, C, D, K)

### Output data

<b>Nominal output voltage</b>	30.1 V DC $\pm$ 1.5 %
<b>Output current</b>	4.8 A (Up to +60°C)
<b>Output current</b>	6 A
<b>Connection in parallel</b>	No
<b>Connection in series</b>	Yes
<b>Residual ripple</b>	< 30 mV <sub>PP</sub>
<b>Peak switching voltages nominal load</b>	< 50 mV <sub>PP</sub>
<b>Maximum power dissipation NO-Load</b>	4 W
<b>Power loss nominal load max.</b>	16 W

### General

<b>Net weight</b>	0.9 kg
<b>Operating voltage display</b>	LED
<b>Efficiency</b>	> 89 % (for 230 V AC and nominal values)
<b>Insulation voltage input/output</b>	4 kV AC (type test)
<b>Insulation voltage input/output</b>	2 kV AC (routine test)
<b>MTBF (IEC 61709, SN 29500)</b>	> 500000 h
<b>Mounting position</b>	horizontal DIN rail NS 35, EN 60715
<b>Assembly instructions</b>	Can be aligned: Horizontally 0 mm, vertically 50 mm
<b>Electromagnetic compatibility</b>	Conformance with EMC Directive 2004/108/EC
<b>Low Voltage Directive</b>	Conformance with LV directive 2006/95/EC
<b>Standard - Safety of transformers</b>	EN 61558-2-17
<b>Standard - Electrical safety</b>	EN 60950-1/VDE 0805 (SELV)
<b>Standard - Electrical safety</b>	DIN VDE 0100-410
<b>Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations</b>	EN 50178/VDE 0160 (PELV)
<b>Standard - Safe isolation</b>	DIN VDE 0100-410
<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

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## Technical data

### General

<b>UL approvals</b>	UL/C-UL Recognized UL 60950
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### 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>	12
<b>Stripping length</b>	10 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>	EC002583

### UNSPSC

<b>UNSPSC 6.01</b>	43172015
<b>UNSPSC 7.0901</b>	43201404
<b>UNSPSC 11</b>	39121004
<b>UNSPSC 12.01</b>	39121004
<b>UNSPSC 13.2</b>	39121004

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## approvals

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

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### Approval details

UL Recognized

UL Listed

cUL Recognized

GOST

cUL Listed

ASI-Interface

IECEE CB Scheme

cULus Recognized

cULus Listed

### accessories

**Assembly adapter**

# Power supply unit - ASI QUINT 100-240/4.8 EFD - 2736699

accessories

UWA 182/52 - 2938235



QUINT-PS-ADAPTERS7/2 - 2938206



## Mounting rail adapter

UTA 107 - 2853983



## Drawings

Block diagram



