

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

Packing unit	1 pc
Weight per Piece (excluding packing)	1140.0 g
Custom tariff number	85044030
Country of origin	Thailand

Technical data

Dimensions

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

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

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Dimensions

Depth with alternative assembly	58 mm
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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)
Noise immunity	EN 61000-6-2:2005

Input data

Nominal input voltage range	100 V AC ... 240 V AC
AC frequency range	45 Hz ... 65 Hz
Frequency range DC	0 Hz
Nominal power consumption	72 W
Inrush surge current	< 15 A (typical)
Power failure bypass	> 20 ms (120 V AC) > 80 ms (230 V AC)
Input fuse	5 A (slow-blow, internal)
Choice of suitable circuit breakers	6 A ... 16 A (Characteristics B, C, D, K)

Output data

Nominal output voltage	30.1 V DC \pm 1.5 %
Nennausgangsstrom (I_N)	2.4 A
Connection in parallel	No
Connection in series	Yes
Residual ripple	< 30 mV _{PP}
Output power	72 W
Typical response time	< 0.5 s
Peak switching voltages nominal load	< 50 mV _{PP}
Maximum power dissipation in no-load condition	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) 2 kV AC (routine test)
MTTF/ MTBF (IEC 61709, SN 29500)	> 500000 h

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

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General

Mounting position	horizontal DIN rail NS 35, EN 60715
Assembly instructions	Can be aligned: Horizontally 0 mm, vertically 50 mm

Connection data, input

Connection method	Pluggable spring-cage connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Stripping length	9 mm
Screw thread	M3

Connection data, output

Connection method	Spring-cage connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Screw thread	M3

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise immunity	EN 61000-6-2:2005
Connection in acc. with standard	CUL
Standards/regulations	EN 61000-4-3
	EN 61000-4-4
	EN 61000-4-6
Standard - Safety of transformers	EN 61558-2-17
Standard - Electrical safety	EN 60950-1/VDE 0805 (SELV)
	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
	DIN VDE 0106-1010
Standard - Limitation of mains harmonic currents	EN 61000-3-2

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

Technical data

Standards and Regulations

UL approvals	UL/C-UL listed UL 508
	UL/C-UL Recognized UL 60950
Low Voltage Directive	Conformance with LV directive 2006/95/EC

Classifications

eCl@ss

eCl@ss 4.0	27250202
eCl@ss 4.1	27250202
eCl@ss 5.0	27259205
eCl@ss 5.1	27242692
eCl@ss 6.0	27242692
eCl@ss 7.0	27242692
eCl@ss 8.0	27242611

ETIM

ETIM 2.0	EC001039
ETIM 3.0	EC001039
ETIM 4.0	EC002542
ETIM 5.0	EC002583

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	39121004
UNSPSC 12.01	39121004
UNSPSC 13.2	39121004

Approvals

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UL Recognized / UL Listed / cUL Recognized / cUL Listed / ASI-Interface / IECCEB Scheme / EAC / EAC / cULus Recognized / cULus Listed

Ex Approvals

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


Approvals


Approvals submitted

Approval details


UL Recognized 

UL Listed 

cUL Recognized 

cUL Listed 


ASI-Interface

IECEE CB Scheme 

EAC

EAC

cULus Recognized 

cULus Listed 

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Drawings

Block diagram

