Extract from the online catalog

ASI QUINT 100-240/4.8 EFD

Order No.: 2736699

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

Commercial data	
GTIN (EAN)	4 017918 959685
sales group	L175
Pack	1 pcs.
Customs tariff	85044082
Catalog page information	Page 396 (AX-2009)

Product notes

WEEE/RoHS-compliant since: 11/15/2006

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Product description

Power supply unit for AS-Interface systems. Special power supply units 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 power supply unit 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 power supply unit has an integrated ground fault detection function. A ground fault is signaled via LED and a signal output. Worldwide use The wide-range input of

the power supply unit can be operated with all conventional AC and DC networks without having to make any settings. The devices can thus be used worldwide.

Technical data

Input data

Nominal input voltage	100 V AC ... 240 V AC
AC input voltage range	85 V AC ... 264 V AC
DC input voltage range	90 V DC ... 350 V DC
AC frequency range	45 Hz ... 65 Hz
DC frequency range	0 Hz
Current consumption	Approx. 1.8 A (120 V AC)
	1 A (230 V AC)
Nominal power consumption	144 W
Inrush surge current	< 15 A (typical)
Power failure bypass	> 60 ms (120 V AC)
	> 100 ms (230 V AC)
Input fuse	5 A (slow-blow, internal)
Permissible backup fuse	B6
	B10
	B16

Output data

Nominal output voltage	30.1 V DC ± 1.5%
Output current	4.8 A (Up to +60°C)
	6 A
Connection in parallel	No
Connection in series	Yes
Residual ripple	< 30 mV_{PP}
Peak switching voltages nominal load	< 50 mV_{PP}
Maximum power dissipation idling	4 W
Power loss nominal load max.	16 W

General data

Width	70 mm
Height	145 mm
Depth	125 mm
Width with alternative assembly	122 mm

Height with alternative assembly	145 mm
	73 mm
Net weight	0.9 kg
Operating voltage display	LED
Efficiency	> 89 % (At 230 V AC and nominal values)
Insulation voltage input/output	4 kV AC (type test)
	2 kV AC (routine test)
Degree of protection	IP20
Protection class	I, IEC 61140, EN 61140, VDE 0140-1
MTBF (IEC 61709, SN 29500)	> 500000 h
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)
Mounting position	horizontal DIN rail NS 35, EN 60715
Assembly instructions	Can be aligned: Horizontal 0 cm, vertical 5 cm
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/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
UL approvals	UL/C-UL listed UL 508
	UL/C-UL Recognized UL 60950

Connection data, input

Type of connection	Pluggable spring-cage connection
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section stranded min.	0.2 mm²
Conductor cross section stranded max.	2.5 mm²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12

Stripping length	10 mm
Screw thread	M3

Connection data, output

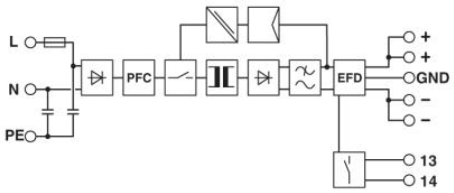
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section stranded min.	0.2 mm²
Conductor cross section stranded max.	2.5 mm²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12

Certificates / Approvals

Certification CB, CUL, CUL Listed, GOST, UL, UL Listed

Diagrams/Drawings

Block diagram



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