Extract from the online catalog

QUINT-PS/ 1AC/24DC/20/CO

Order No.: 2320898

http://eshop.phoenixcontact.co.uk/phoenix/treeViewClick.do?UID=2320898

DIN rail power supply unit 24 V DC/20 A/CO, dip-coated circuit board, primary-switched, 1-phase. For the first time, SFB (selective fuse breaking) technology can also be used to trigger standard circuit breakers quickly and reliably.

H D W

SFB TECHNOLOGY

Product notes

WEEE/RoHS-compliant since: 16/07/2009

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Commercial data

EAN	4 046356 520003
Pack	1
Customs tariff	85044082
Country of Origin	TH
Catalog page information	Page 625 (IF-2011)

Product description

QUINT POWER power supply units – Maximum system availability with SFB technology

Compact power supply units of the new QUINT POWER generation maximize the availability of your system. With the SFB technology (Selective Fuse Breaking Technology), six times the nominal current for 12 ms, even the standard power circuit-breakers can now also be triggered reliably and quickly. Faulty current paths are switched off selectively, the fault is located and important system parts continue to operate. Comprehensive diagnostics are provided through constant monitoring of output voltage and current. This preventive function monitoring visualizes critical operating modes and reports them to the control unit before an error can occur.

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 (UL 508: ≤ 250 V DC)
Short-term input voltage	300 V AC
AC frequency range	45 Hz ... 65 Hz
DC frequency range	0 Hz
Current consumption	Approx. 5.1 A (120 V AC)
	Approx. 2.3 A (230 V AC)
Inrush surge current	< 20 A (typical)
Power failure bypass	> 20 ms (120 V AC)
	> 20 ms (230 V AC)
Input fuse	12 A (slow-blow, internal)
Permissible backup fuse	B10
	B16
Additional text	AC: 1 x circuit breaker - recommended fuse
Type of protection	Transient surge protection
Protective circuit/component	Varistor

Output data

Nominal output voltage	24 V DC ±1%
Setting range of the output voltage	18 V DC ... 29.5 V DC (> 24 V constant capacity)
Output current	20 A (-25°C ... 60°C, U_{OUT} = 24 V DC)
	26 A (with POWER BOOST, -25°C ... 40°C permanently, U_{OUT} = 24 V DC)
	120 A (SFB technology, 12 ms)
	26 A (U_{In} ≥ 100 V AC)
Magnetic fuse tripping	B16
	C6
Derating	60 °C ... 70 °C (2.5%/K)
Connection in parallel	Yes, for redundancy and increased capacity
Connection in series	Yes
Control deviation	< 1 % (change in load, static 10% ... 90%)
	< 2 % (change in load, dynamic 10% ... 90%)
	< 0.1 % (change in input voltage ±10%)