

PULS

DIN rail power supply with **IO-Link** interface

QT series | 960W | 3-phase



Efficient. Easy. Connected.

Awarded with the



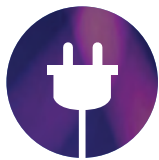
Efficient. Easy. Connected.

As a member of the well-known QT series, this version offers a digital communication interface. It is based on the widespread IO-Link standard, which allows the adaptation to various fieldbus protocols.

With a comprehensive and well-chosen set of operating data, the QT40.241-B2 enables for preventive maintenance measures. Due to near-time communication (events), failures can be fixed before they occur. Customers will benefit from increased process uptimes and long-term cost savings.



Benefits at a glance



Easy to install

Adapt it to various fieldbus systems.
Make use of automated parameterization.



Save time and costs

Implement preventative maintenance.
Optimize the utilization of your system.



Improve customer service

Analyze the quality of the power grid.
Speed up fault analysis and troubleshooting.

Technical data

Output

Output voltage range	24 - 28V (via potentiometer) 15 - 28V (remote via IO-Link)
Output current nominal	40A
Output current temporary	60A (5s)
Output transient current	100A (10ms) Uout >20V
Overload behaviour	constant current mode

General

Efficiency	95.3%
Lifetime expectancy (40°C)	69kh
MTBF SN29500, IEC 61709	685kh
Hold-up time, typ.	25ms
Operating temperature	-25°C to 70°C
Dimensions WxHxD	110x124x127mm
Weight	1500g
Warranty	3 years
Approvals (planned)	CE, cULus 61010-2 listed
Order number	QT40.241-B2

Input

AC input voltage nominal	380 - 480V
AC input voltage range	323 - 576V
Power factor	0.92
AC inrush current, typ.	< 4.5A

Data communication

Protocol (standard)	IO-Link v1.1 (IEC 61131-9)
Power supply	24V over ComLine
Configuration	upload IODD, plug-and-play
Transmission speed	< 230.4 kBaud
Transmission distance	up to 20m
Transmission medium	3 wires
Memory	8Kbit EEPROM
Connector	PG male connector
Thread	M12
No. of pins	4, A code

All parameters are specified at nominal values, 3x400Vac, 50Hz, 25°C ambient temperature and 5 minutes run-in time unless otherwise noted.

Standards and Approvals



Trusted technology

The QT series consists of powerful and highly reliable industrial grade power supplies. They are the result of more than a decade of application experience in demanding industries like global machine building and automotive.

The compact design and very low inrush currents enable a high engineering flexibility.

Integrated current reserves provide strong load start-up support. An output power manager distributes the load current in parallel use homogeneously among the units. This ensures the utmost available lifetime.

Compact design

QT40



- 45%

smaller design



Competitor*

Long lifetime

Competitor* 26.6 kh


+ 61% longer lifetime

QT40

69 kh

* Average of the top 5 competitors in the 960W class.

Data logging

<p>ON DEMAND</p> <p>Acyclical parameters</p> <p>Device information (static) Manufacturer name Product name Serial number Hardware and firmware inspection status</p> <p>Device information (dynamic) Device runtime Remaining lifetime in years Temperature of the air flow</p> <p>Input parameters Transient counter Input voltage</p> <p>Output parameters Output voltage Load level in %</p>	<p>PUSH</p> <p>Cyclical process data Output current (every 2ms)</p> <p>WRITE</p> <p>Remote functions Switch on power supply Switch off power supply Setting the output voltage</p>	<p>PUSH</p> <p>Events DC warning Bonus Power Overload Temperature too high Input voltage too high Input voltage too low Power supply failure Maintenance required</p> <p>IO Device Description (IODD) Learn more about the device profile and the communication network profile of the QT40.241-B2.</p> <p>Download the IODD on our website:</p> 
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IO-Link: Benefits and integration

Persistent

The configuration data of the power supply is saved by the IO-Link Master, making replacements easier and faster.

Flexible

Adaptation to various fieldbus systems is possible because the IO-Link Master operates as a flexible interface between protocol levels.

Reliable

Stable data transmission at all times because the IO-Link module is powered by the communication line.

