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POWER SUPPLY 3-PHASE, 24 V DC DIMENSION Q SERIES IO-LINK

QT40.241-B2
Power supply 3x380-480VAC/24VDC, 40A IO-link



- IO-Link Interface V1.1
- Output current 30A
- Up to 92.5% efficiency
- 65mm wide
- Hiccup Plus

PRODUCT DESCRIPTION

TECHNICAL DATA

INPUT DATA

Input voltage ac	380-480 V
Input voltage ac min	323 V AC
Input voltage ac max	576 V AC
Inrush current at 400 V ac typical	5 A
Input voltage range	Wide-range
Power factor at 400 V ac, full load. Typical	88
Number of phases	3

OUTPUT DATA

Output voltage	24 V DC
Output voltage min	24 V DC
Output voltage max	28 V DC
Output current	40 A
Power	960 W

EFFICIENCY / LIFETIME / MTBF

Efficiency at 400 V ac, typical	947 %
Efficiency at 400 V ac, full load, typical	953 %
Lifetime at 400 V ac, full load and +40 ° C	69000 h

MTBF (IEC 61709) 400 V ac, max loan, +40 °C	375000 h

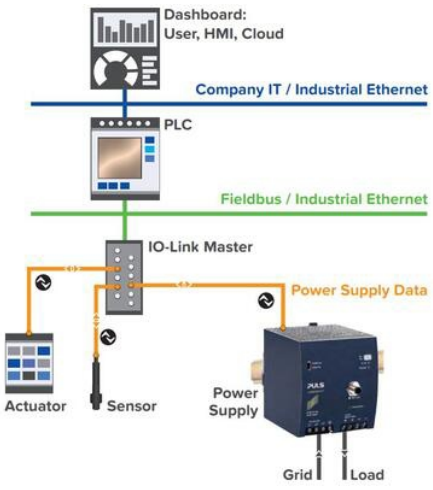
DIMENSIONS

Width	110 mm
Height	124 mm
Depth	127 mm
Weight	15 kg

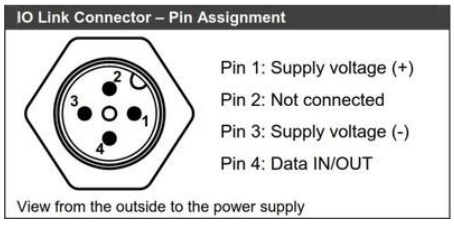
OTHER

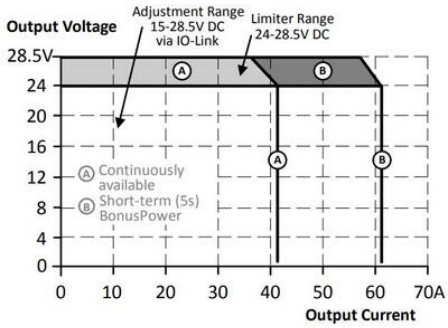
Approvals	CE
Hold time at 400 V ac, typical full load	25 ms
IP class	IP20
Clamp type	Screw in
Material protection	Aluminium
Supply frequency	50-60 ±6 %
Ripple max	100 mV pp
Series	Dimension Q
Power consumption at 400 V ac	165 A
Power drop from +60 °C to + 70 °C	20 W/°C
Temperature min without derating	-25 °C
Temperature max without derating	55 °C

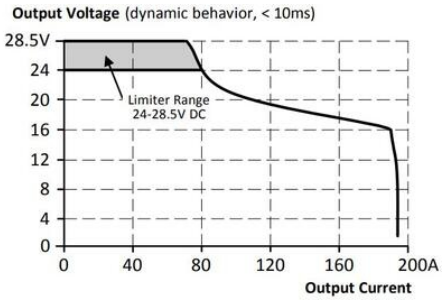
Type Power Supply	AC-DC
Active Transient	Yes

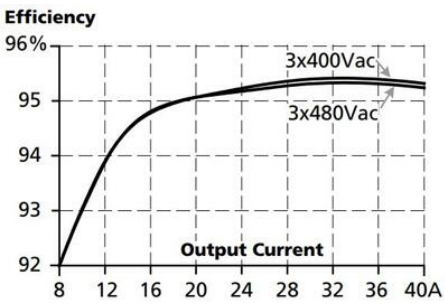


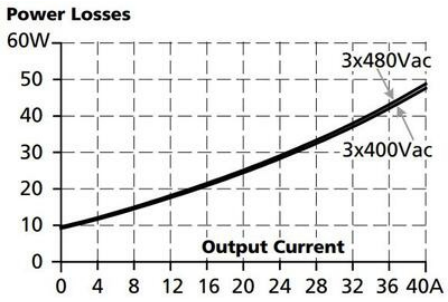












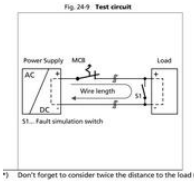


Fig. 24-9 **Test circuit**

Maximal wire length*) for a fast (magnetic) tripping:

	0.75mm²	1.0mm²	1.5mm²	2.5mm²
C-2A	28m	38m	54m	78m
C-3A	26m	35m	50m	74m
C-4A	19m	26m	38m	58m
C-6A	12m	16m	24m	32m
C-8A	9m	12m	17m	25m
C-10A	7m	10m	15m	21m
C-13A	4m	5m	7m	11m
B-6A	19m	26m	35m	59m
B-10A	11m	17m	26m	37m
B-13A	10m	13m	21m	32m
B-16A	8m	11m	14m	24m
B-20A	4m	6m	8m	14m

*) Don't forget to consider twice the distance to the load (or cable length) when calculating the total wire length (+ and – wire).

