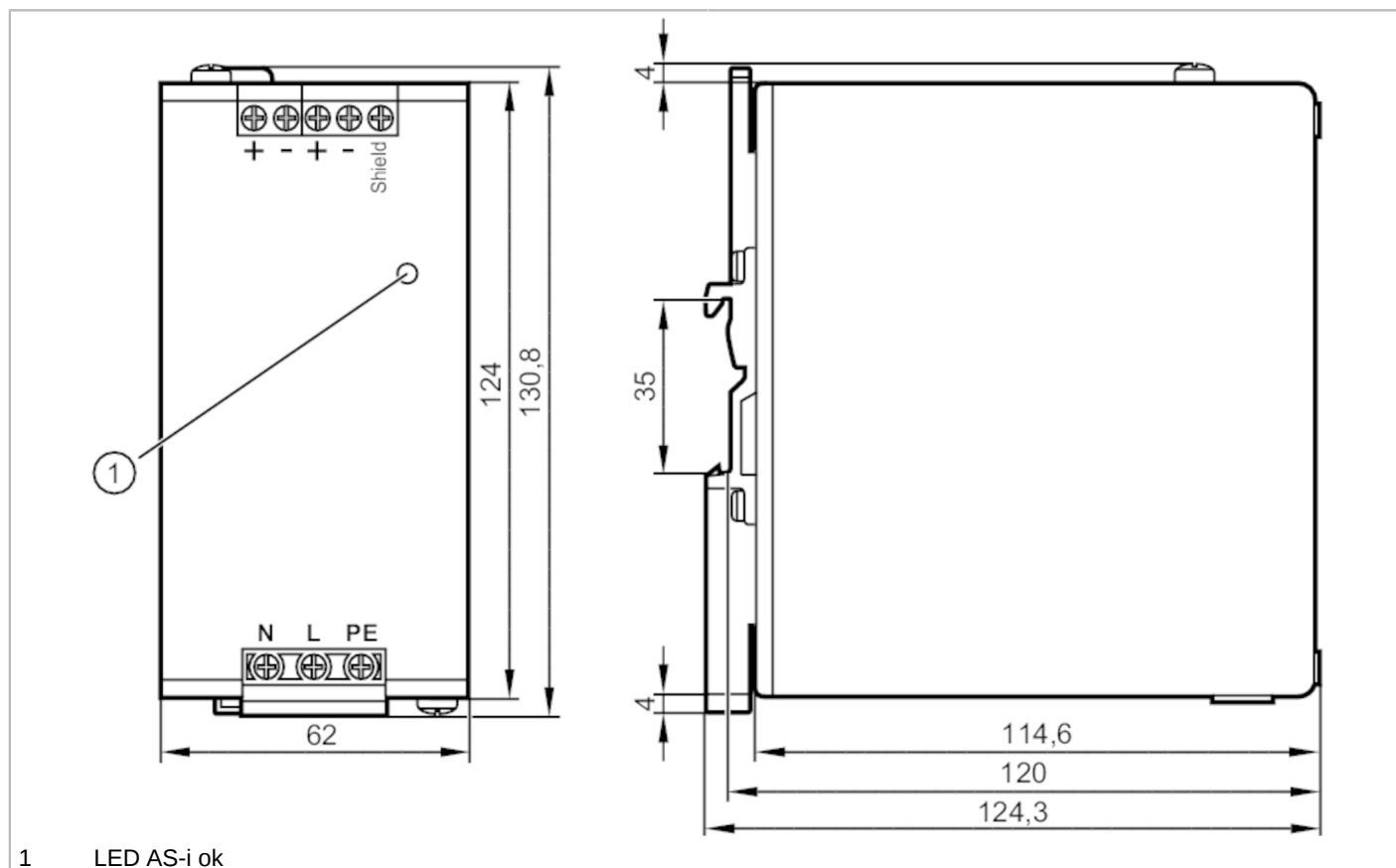


AC1258

AS-Interface power supply

PSU-1AC/ASI-8A



1 LED AS-i ok



Application

Design

housing for DIN rail mounting

Electrical data

Frequency AC	[Hz]	47...64
Operating voltage tolerance	[%]	10
Operating voltage	[V]	automatic range selection
Nominal voltage AC	[V]	110 / 230
Input voltage range AC	[V]	100...120 / 200...240
Protection class		I
Overvoltage protection		yes; (< 36 V)
Max. power-on delay time	[ms]	800
Output voltage AS-i	[V]	30.5
Output power (permanent)	[W]	244
Output power (peak)	[W]	256
Note on output power (peak)	[W]	briefly to load bus capacities after power on
Power factor (nominal voltage 120 V AC / 60 Hz)		0.59
Power factor (nominal voltage 230 V AC / 50 Hz)		0.51
Power reserve	[%]	5
Number of output circuits		1

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AS-Interface power supply

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Output current AS-i	[A]	8
Max. residual ripple	[mV]	100
Switch-on peak current (nominal voltage 120 V AC / 60 Hz)	[A]	3
Switch-on peak current (nominal voltage 230 V AC / 50 Hz)	[A]	3
Inrush current limitation		yes
Efficiency (nominal voltage 120 V AC / 60 Hz)	[%]	89.4
Efficiency (nominal voltage 230 V AC / 50 Hz)	[%]	90.9
External input protection		$\leq B-10\text{ A} / \leq C-6\text{ A}$
Derating	[W/K]	6 (60...70 °C)
Mains buffering time (nominal voltage 120 V AC / 60 Hz)	[ms]	44
Mains buffering time (nominal voltage 230 V AC / 50 Hz)	[ms]	42
Input current (nominal voltage 120 V AC / 60 Hz)	[A]	3.73
Input current (nominal voltage 230 V AC / 50 Hz)	[A]	2.23
Power loss (nominal voltage 120 V AC / 60 Hz)	[W]	28.9
Power loss (nominal voltage 230 V AC / 50 Hz)	[W]	24.4
Integrated data decoupling		yes
Back feeding protection	[V]	35

Outputs

Short-circuit proof	yes
Overload protection	yes
Overload performance	constant output current
Parallel connection of outputs possible	no
Series connection of outputs possible	no

Operating conditions

Ambient temperature	[°C]	-25...70
Note on ambient temperature		observe the free space for convection (see operating instructions)
Storage temperature	[°C]	-40...85
Max. relative air humidity	[%]	95; (IEC 60068-2-30)
Protection		IP 20
Degree of soiling		2; (IEC 62103: conductive soiling not permitted)

Tests / approvals

EMC	EN 61000-6-1	
	EN 61000-6-2	
	EN 61000-6-4	
Vibration resistance	IEC 60068-2-6	$\pm 1,6\text{ mm } 2...17,8\text{ Hz} / 2\text{ g } 17,8...500\text{ Hz}$

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AS-Interface power supply

PSU-1AC/ASi-8A

Shock resistance	IEC 60068-2-27	30 g 6 ms / 20 g 11 ms
MTTF	[years]	88

AS-i classification

AS-i certificate	98501
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Mechanical data

Weight	[g]	898.5
Housing		rectangular
Type of mounting		Mounting on DIN rail; (TH35 (EN 60715))
Dimensions	[mm]	130.8 x 62 x 124.3
Material		steel sheet

Displays / operating elements

Display	AS-i voltage	LED, green
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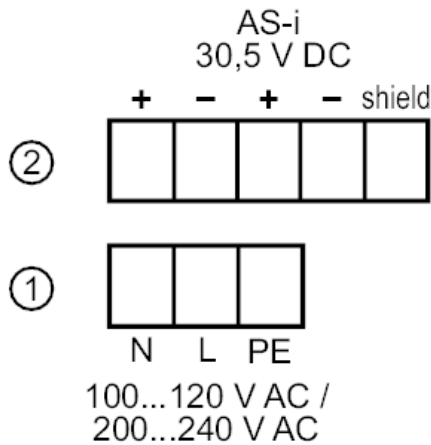
Remarks

Pack quantity	1 pcs.
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Electrical connection

screw terminals:

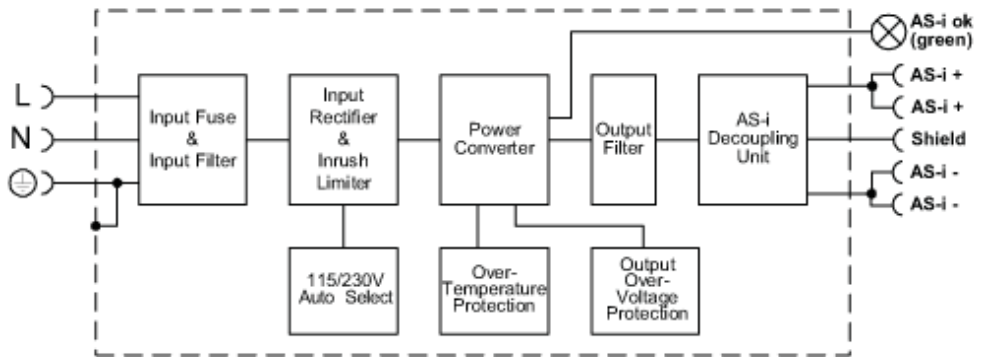
Connection



- 1: primary
2: secondary

Diagrams and graphs

Block diagram



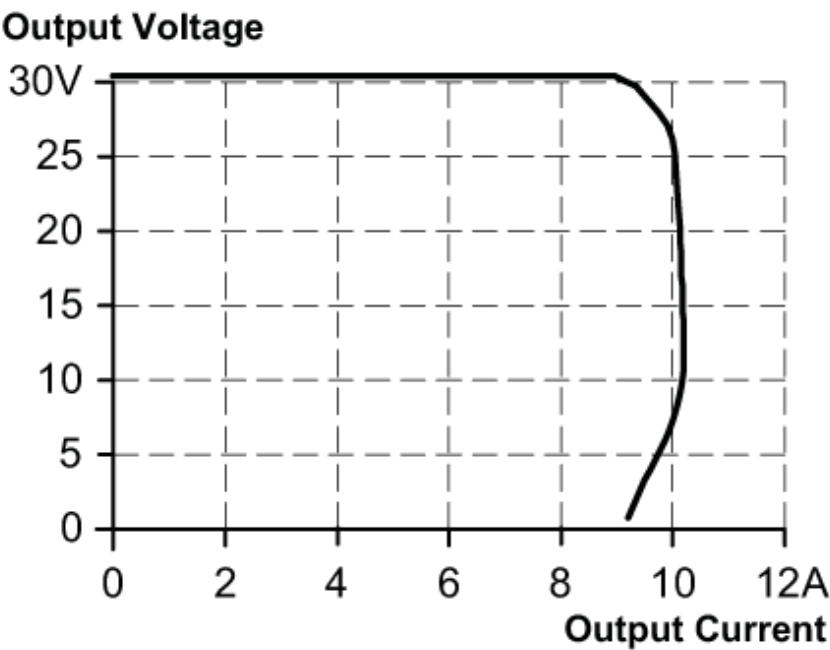
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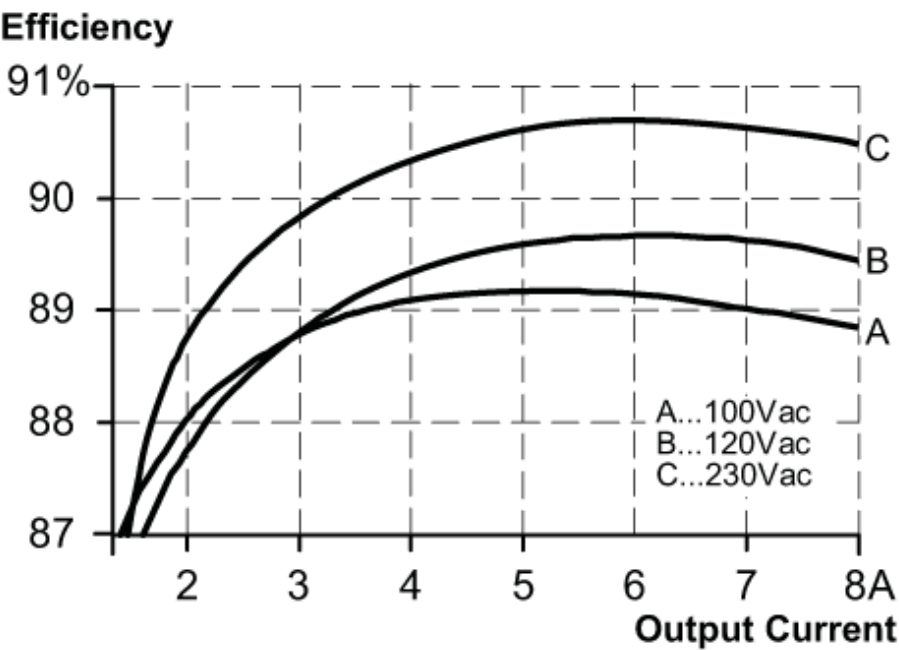
AS-Interface power supply

PSU-1AC/ASi-8A

Output curve



Characteristic curve for degree of efficiency / power loss



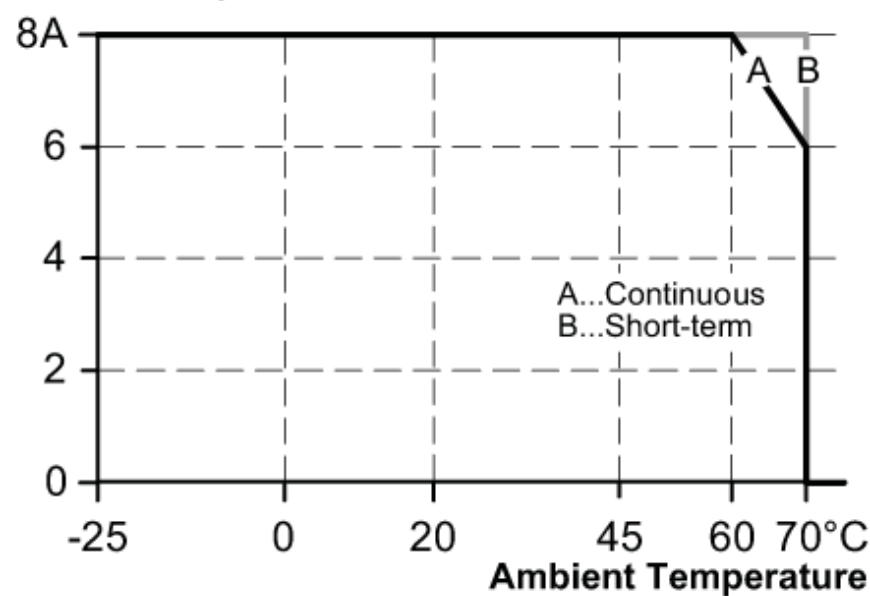


AS-Interface power supply

PSU-1AC/ASI-8A

Characteristic curve for derating

Allowed Output Current



Characteristic curve for mains buffering time

Hold-up Time

