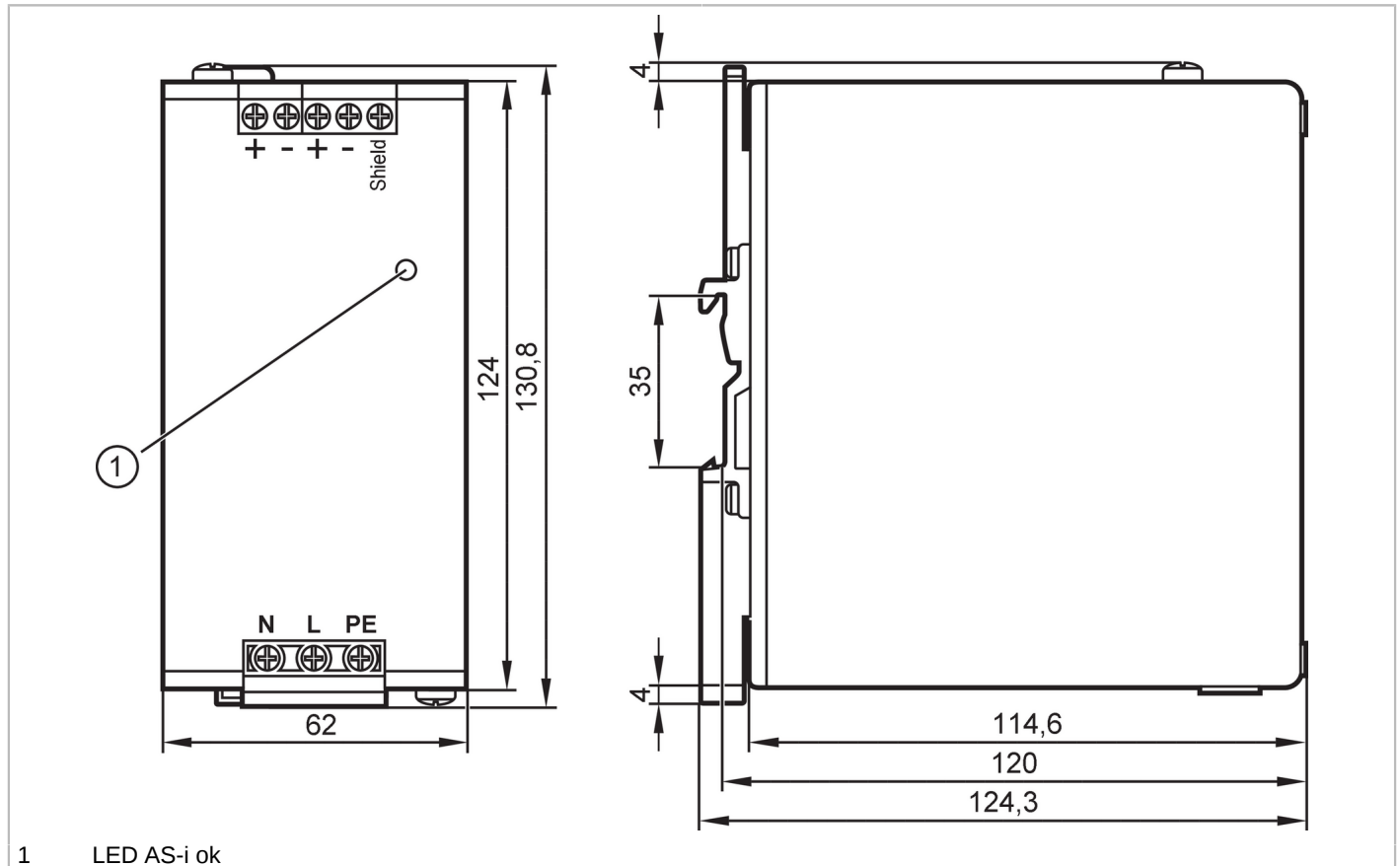


AC1258



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

PSU-1AC/ASI-8A

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	$\leq B-10 A / \leq C-6 A$
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
Pollution degree	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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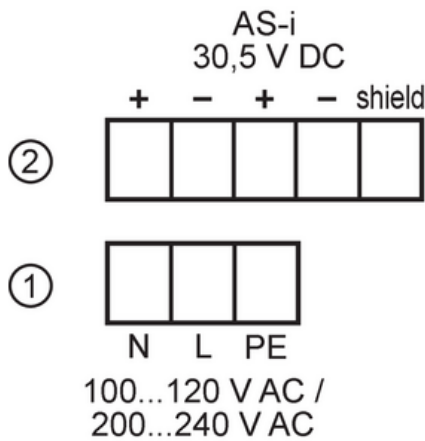
Remarks

Pack quantity	1 pcs.
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Electrical connection

screw terminals:

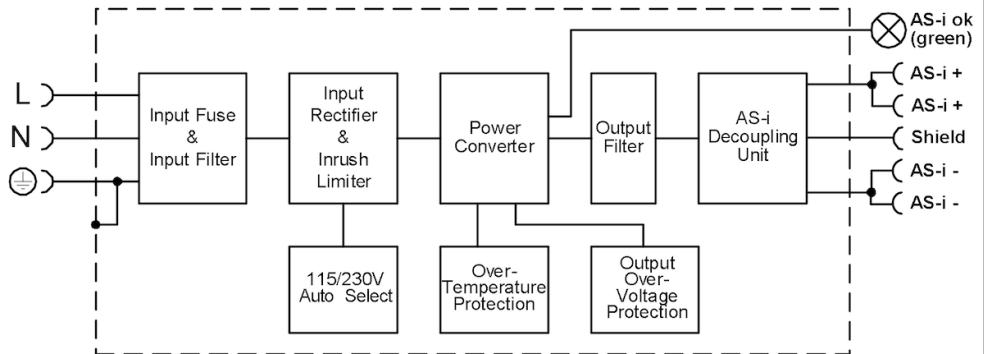
Connection



- 1: primary
2: secondary

Diagrams and graphs

Block diagram



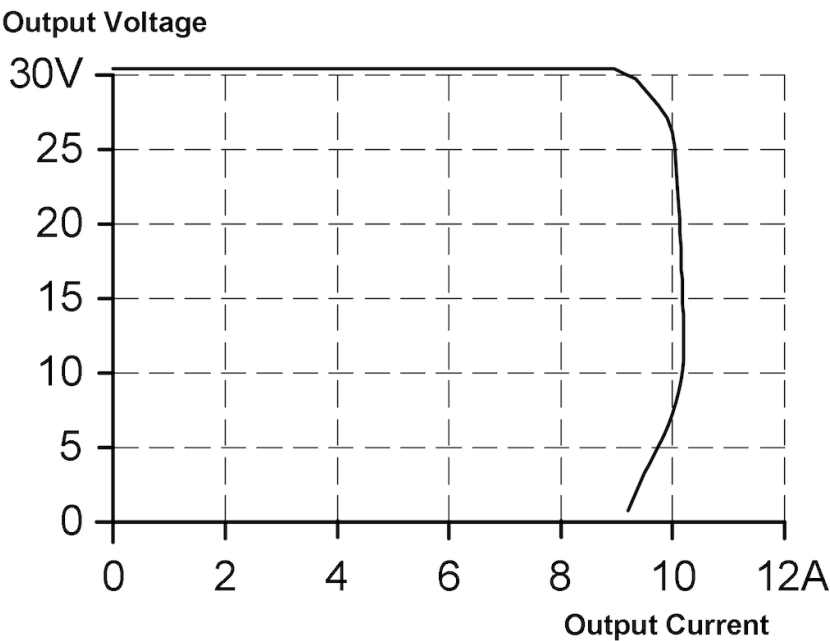
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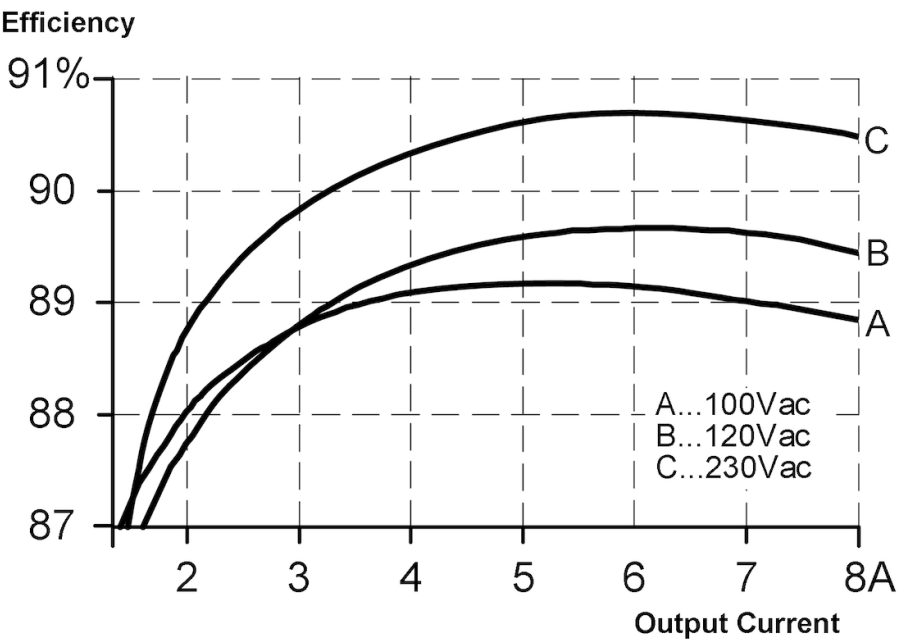
AS-Interface power supply

PSU-1AC/ASi-8A

Output curve



Characteristic curve for degree of efficiency / power loss



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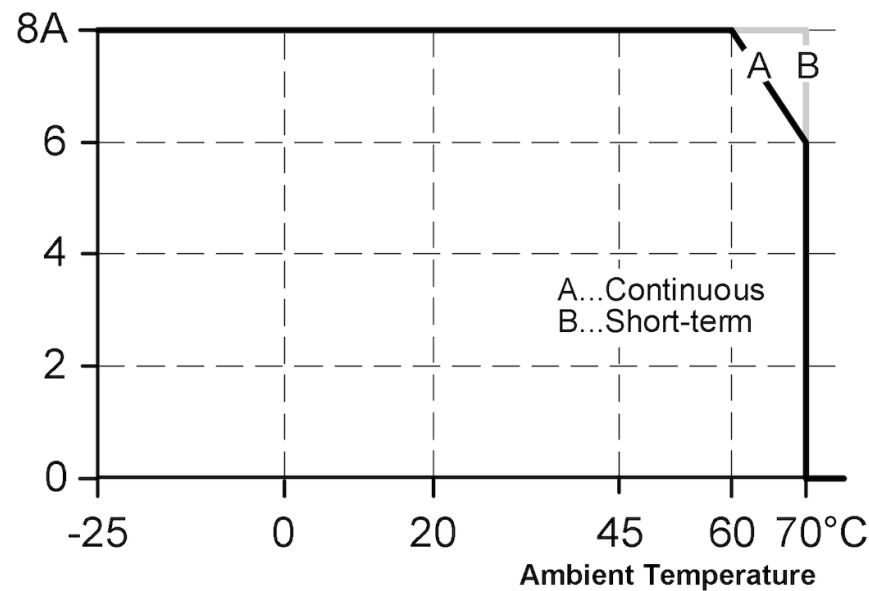
AS-Interface power supply

PSU-1AC/ASI-8A



Characteristic curve for derating

Allowed Output Current



Characteristic curve for mains buffering time

Hold-up Time

