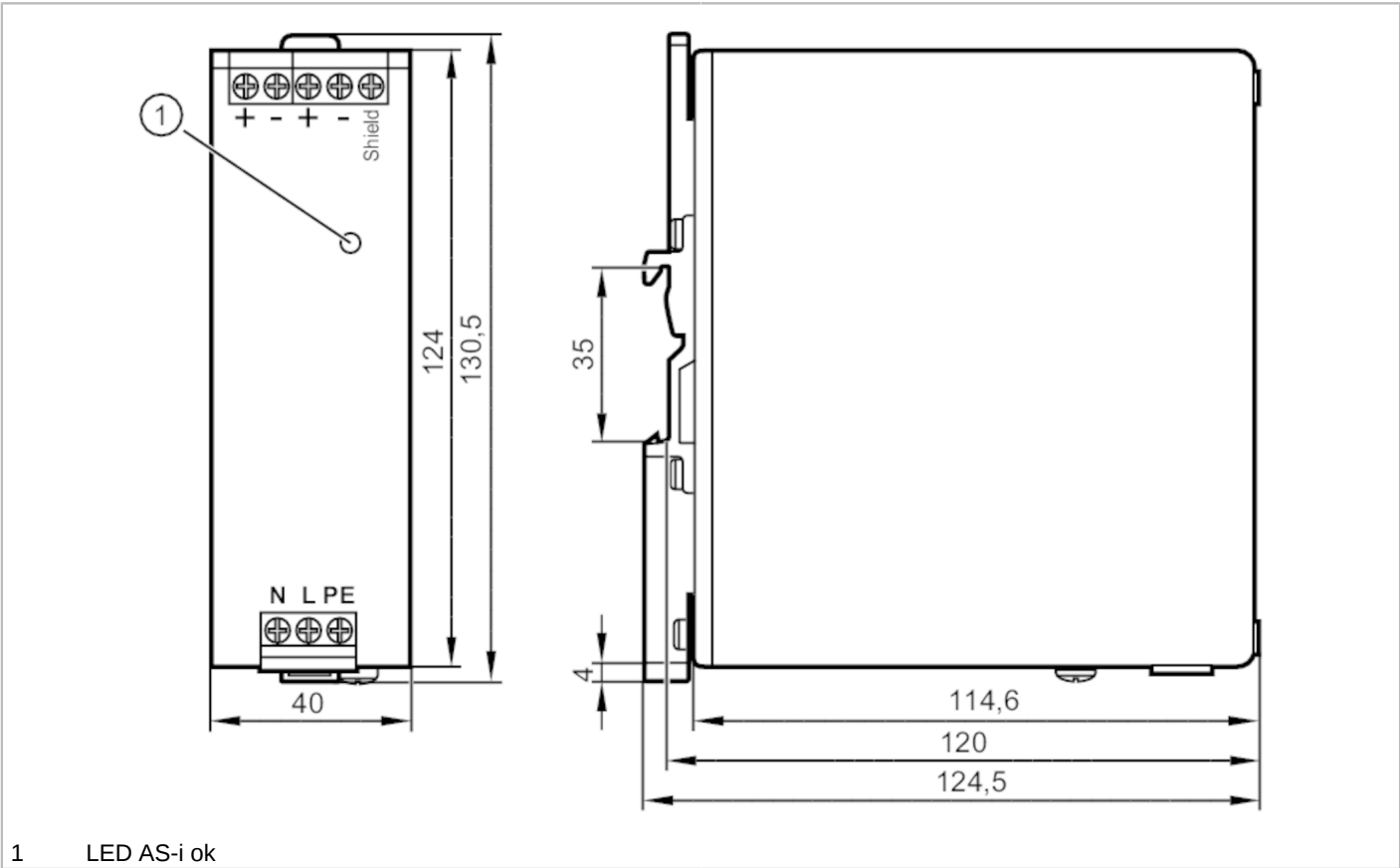


AC1256



AS-Interface power supply

PSU-1AC/ASi-2,8A



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]	900
Output voltage AS-i	[V]	30.5; (to PELV; NEC Class II)
Output power (permanent)	[W]	85
Power factor (nominal voltage 120 V AC / 60 Hz)		0.56
Power factor (nominal voltage 230 V AC / 50 Hz)		0.47
Number of output circuits		1
Output current AS-i	[A]	2.8
Max. residual ripple	[mV]	50



AS-Interface power supply

PSU-1AC/ASi-2,8A

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)	[%]	86.9
Efficiency (nominal voltage 230 V AC / 50 Hz)	[%]	88
External input protection		$\leq B-10 A / \leq C-6 A$
Derating	[W/K]	0 (60...70 °C)
Mains buffering time (nominal voltage 120 V AC / 60 Hz)	[ms]	98
Mains buffering time (nominal voltage 230 V AC / 50 Hz)	[ms]	96
Input current (nominal voltage 120 V AC / 60 Hz)	[A]	1.44
Input current (nominal voltage 230 V AC / 50 Hz)	[A]	0.86
Power loss (nominal voltage 120 V AC / 60 Hz)	[W]	12.9
Power loss (nominal voltage 230 V AC / 50 Hz)	[W]	11.6
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	$\pm 1,6 \text{ mm } 2...17,8 \text{ Hz} / 2 \text{ g } 17,8...500 \text{ Hz}$
Shock resistance	IEC 60068-2-27	30 g 6 ms / 20 g 11 ms

AC1256



AS-Interface power supply

PSU-1AC/ASI-2,8A

AS-i classification

AS-i certificate	98701
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Mechanical data

Weight [g]	625
Housing	rectangular
Type of mounting	Mounting on DIN rail; (TH35 (EN 60715))
Dimensions [mm]	130.5 x 40 x 124.5
Material	steel sheet

Displays / operating elements

Display	AS-i voltage	LED, green
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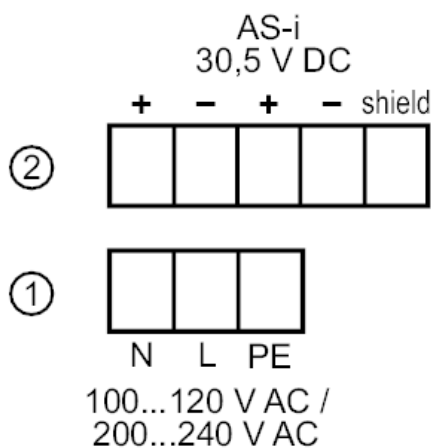
Remarks

Pack quantity	1 pcs.
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Electrical connection

screw terminals:

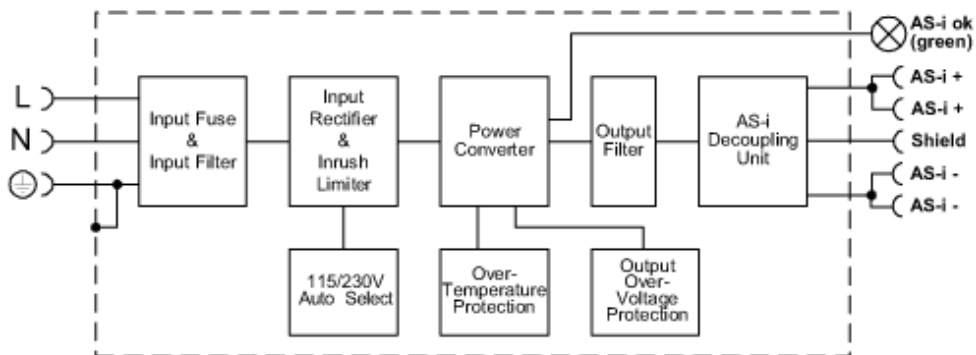
Connection



- 1: primary
2: secondary

Diagrams and graphs

Block diagram



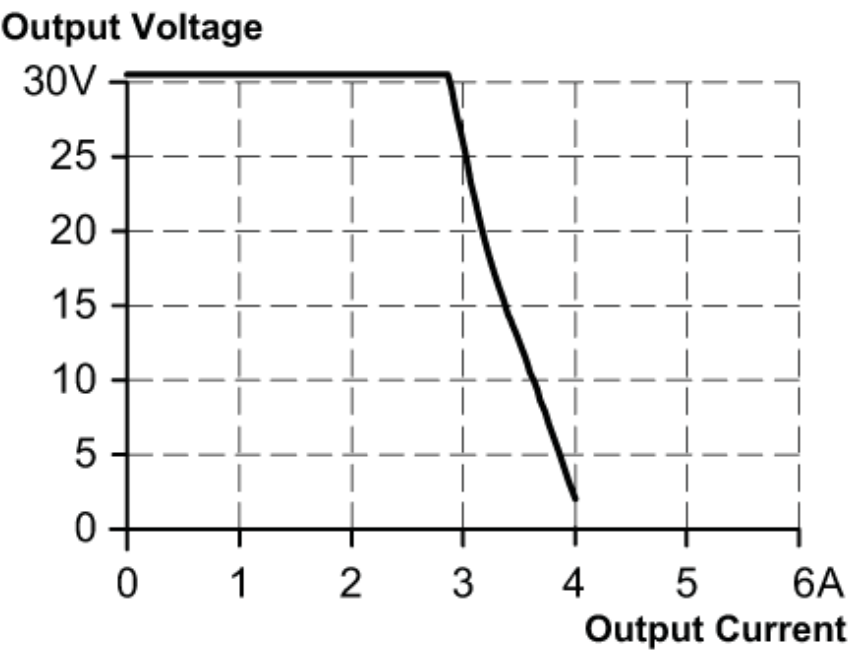
AC1256



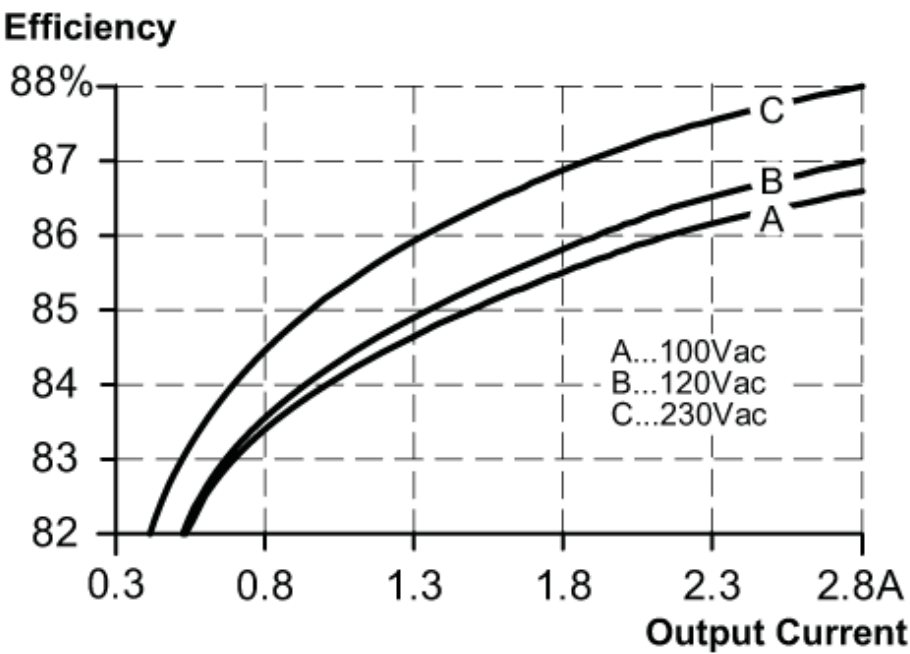
AS-Interface power supply

PSU-1AC/ASi-2,8A

Output curve



Characteristic curve for degree of efficiency / power loss



AC1256

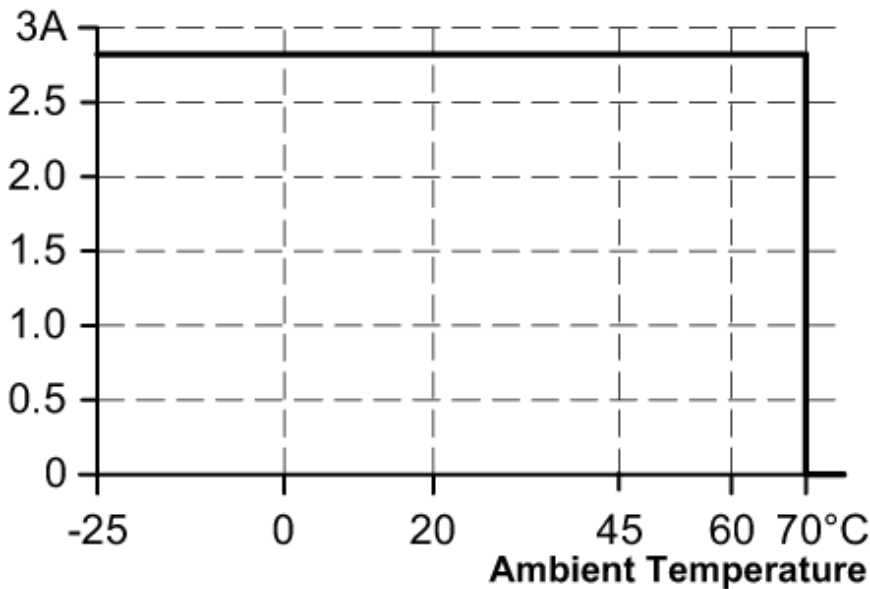


AS-Interface power supply

PSU-1AC/ASi-2,8A

Characteristic curve for derating

Allowed Output Current



Characteristic curve for mains buffering time

Hold-up Time

