

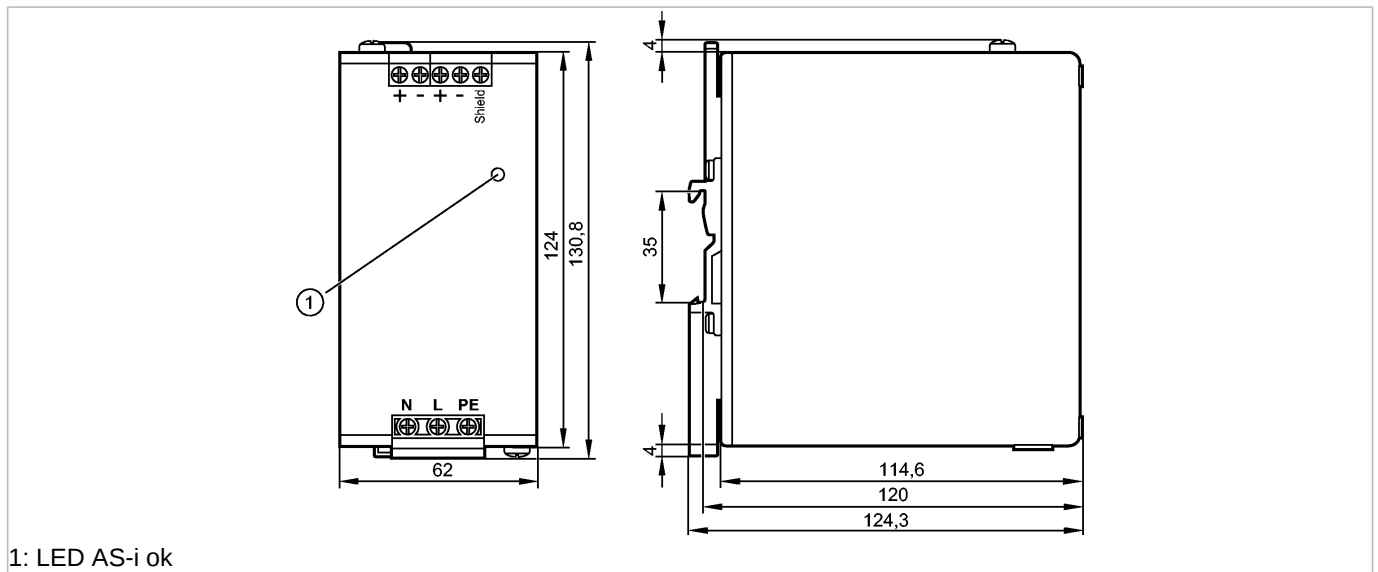


# AC1258

PSU-1AC/ASi-8A



AS-Interface bus system



1: LED AS-i ok



## Product characteristics

Power supply

AS-i power supply 115/230 V AC

Integrated data decoupling

## Application

Application

AS-i system voltage for masters, sensors, actuators and modules

## Electrical data

Input voltage range	[V]	100...120 AC / 200...240 AC; $\pm 10\%$ ; automatic range selection
Nominal voltage	[V]	115 / 230 AC
Frequency range	[Hz]	47...64
Nominal frequency	[Hz]	50 / 60
Output voltage (AS-i)	[V]	30.5 DC
Output power	[W]	244
Output power peak	[W]	256; briefly to load bus capacities after power on
Power factor		0.59 (120 V AC; 60 Hz) / 0.51 (230 V AC; 50 Hz)
Power reserve	[%]	5
Output current (AS-i)	[A]	8
Residual ripple	[mVpp]	< 100
Switch-on peak current	[A]	3 (120 V AC; 60 Hz) / 3 (230 V AC; 50 Hz)
Inrush current limitation		yes
Efficiency	[%]	89.4 (120 V AC; 60 Hz) / 90.9 (230 V AC; 50 Hz)
Short-circuit proof		yes
Overload protection		yes
Overload performance		constant output current
Oversvoltage protection	[V]	< 36
Excess temperature protection		yes
External input protection		$\leq B-10 A / \leq C-6 A$
Power-on delay time	[ms]	$\leq 800$
Derating	[W/K]	6 (60...70 °C)
Mains buffering time	[ms]	44 (120 V AC; 60 Hz) / 42 (230 V AC; 50 Hz)



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Protection class

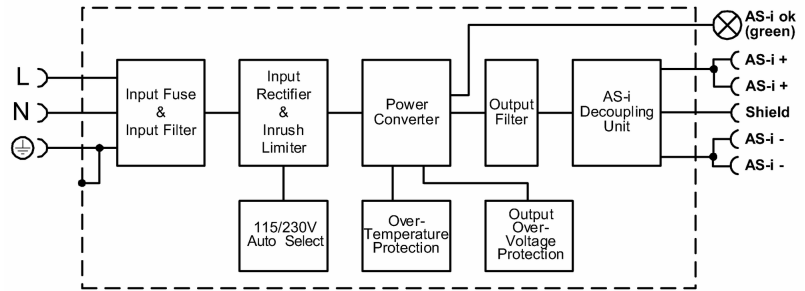
Input current [A]

Power loss [W]

Back feeding protection [V]

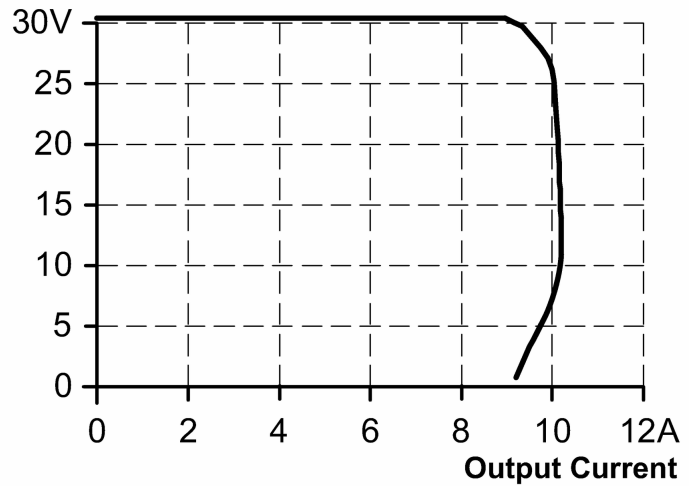
Block diagram

I
3.73 (120 V AC; 60 Hz) / 2.23 (230 V AC; 50 Hz)
28.9 (120 V AC; 60 Hz) / 24.4 (230 V AC; 50 Hz)
$\leq 35$ DC



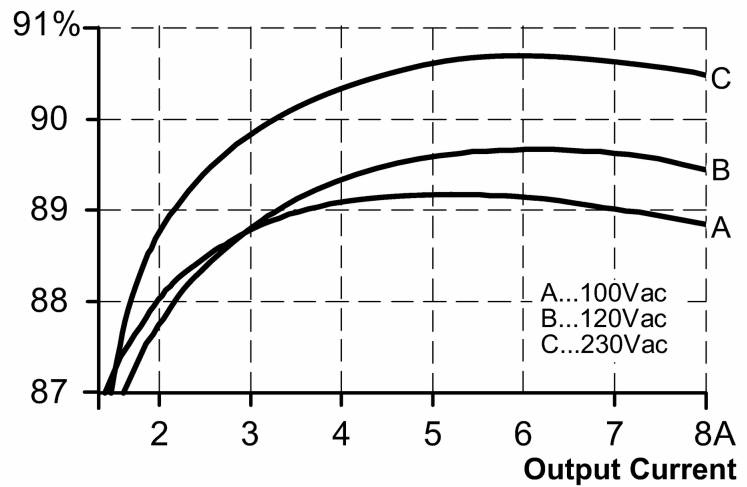
Output curve

### Output Voltage



Characteristic curve for degree of efficiency / power loss

### Efficiency





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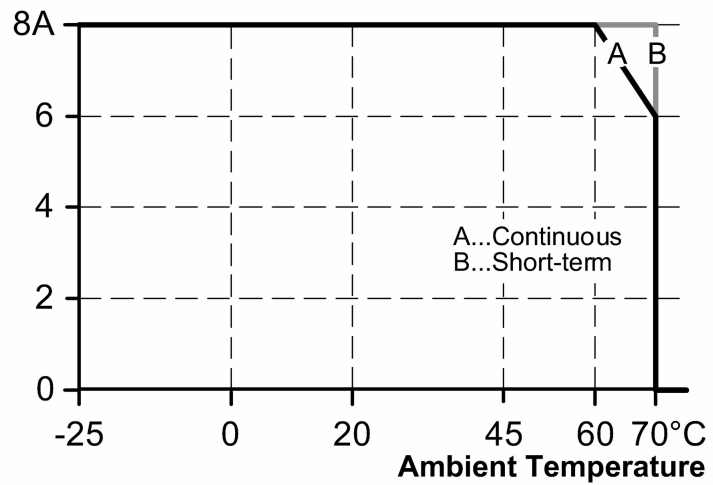
PSU-1AC/ASi-8A



AS-Interface bus system

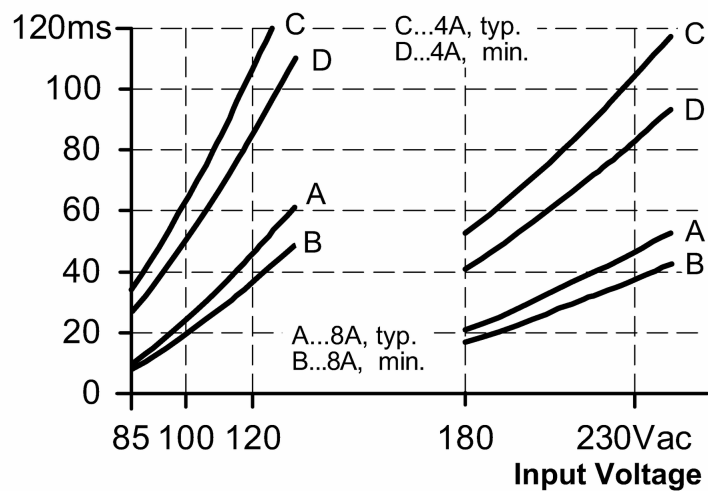
Characteristic curve for derating

### Allowed Output Current



Characteristic curve for mains buffering time

### Hold-up Time



### Outputs

Parallel connection of outputs	no
Series connection of outputs	no

### Environment

Ambient temperature [°C]	-25...70, 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	
UL	UL 508 (Industrial Control Equipment)	
Shock resistance	IEC 60068-2-27	30 g (6 ms) / 20 g (11 ms)
Vibration resistance	± 1.6 mm (2...25 Hz) / 2 g (17.8...500 Hz)	
IEC 60068-2-6		
MTBF [h]	771000	

### AS-i classification



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AS-i certificate	98501
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### Mechanical data

Housing materials	steel sheet
Installation	rail TH35 (to EN 60715)
Weight [kg]	0.883

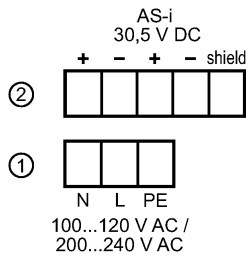
### Displays / operating elements

Function display	LED	green (indication AS-i voltage)
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### Electrical connection

Connection	screw terminals
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### Wiring



- 1: primary
- 2: secondary

### Remarks

Pack quantity	[piece]	1
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