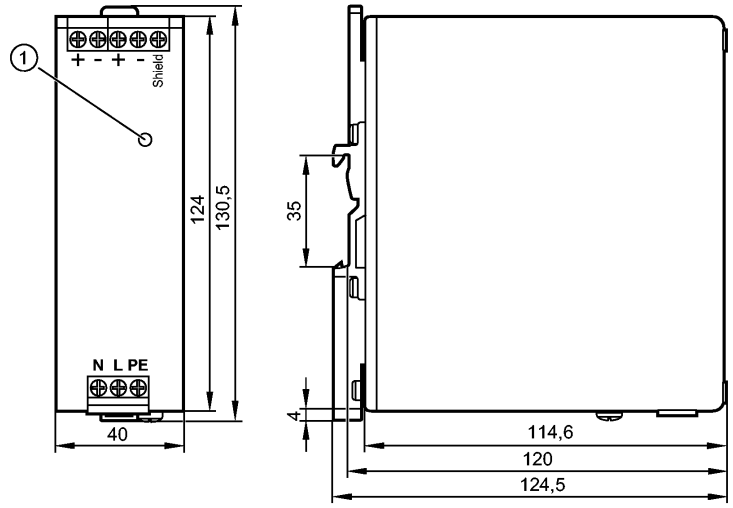
ecomat300

AC1254

PSU-1AC/ASi-4A

Bus system AS-Interface



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; ± 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]	122
Output power peak	[W]	134; briefly to load bus capacities after power on
Power factor		0.56 (120 V AC; 60 Hz) / 0.47 (230 V AC; 50 Hz)
Power reserve	[%]	10
Output current (AS-i)	[A]	4
Residual ripple	[mVpp]	< 50
Switch-on peak current	[A]	3 (120 V AC; 60 Hz) / 3 (230 V AC; 50 Hz)
Inrush current limitation		yes
Efficiency	[%]	88 (120 V AC; 60 Hz) / 89.3 (230 V AC; 50 Hz)
Short-circuit proof		yes
Overload protection		yes
Overload performance		constant output current
Overvoltage protection	[V]	< 36
Excess temperature protection		yes
External input protection		≤ B-10 A / ≤ C-6 A
Power-on delay time	[ms]	≤ 900
Derating	[W/K]	3 (60...70 °C)
Mains buffering time	[ms]	70 (120 V AC; 60 Hz) / 70 (230 V AC; 50 Hz)

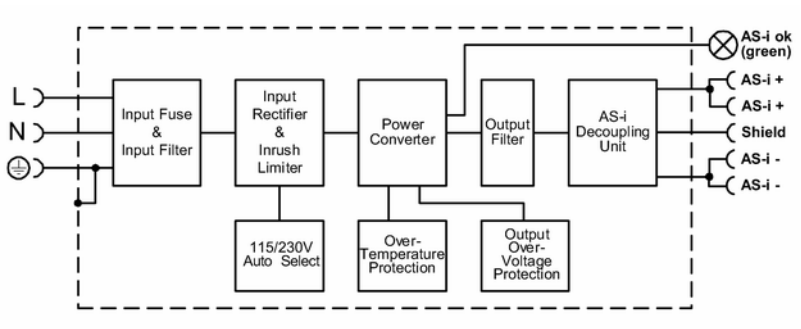
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PSU-1AC/ASi-4A

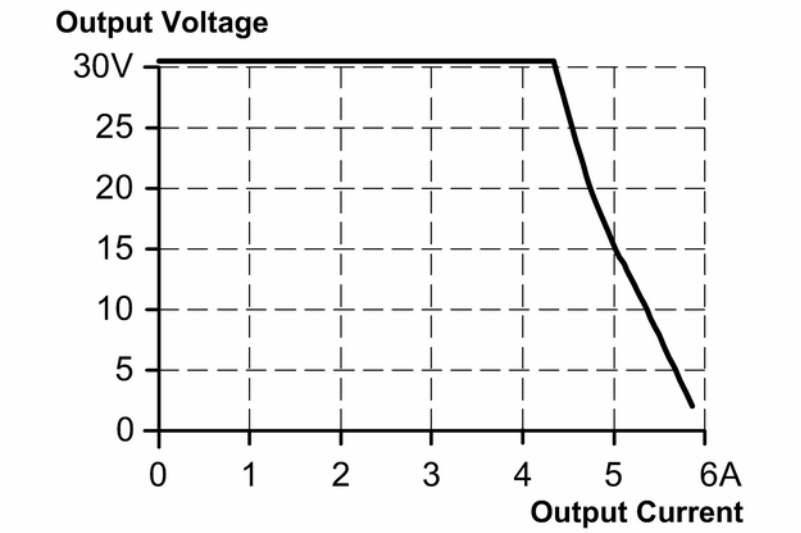
Bus system AS-Interface

Protection class		I
Input current	[A]	2.05 (120 V AC; 60 Hz) / 1.23 (230 V AC; 50 Hz)
Power loss	[W]	16.6 (120 V AC; 60 Hz) / 14.6 (230 V AC; 50 Hz)
Back feeding protection	[V]	≤ 35 DC

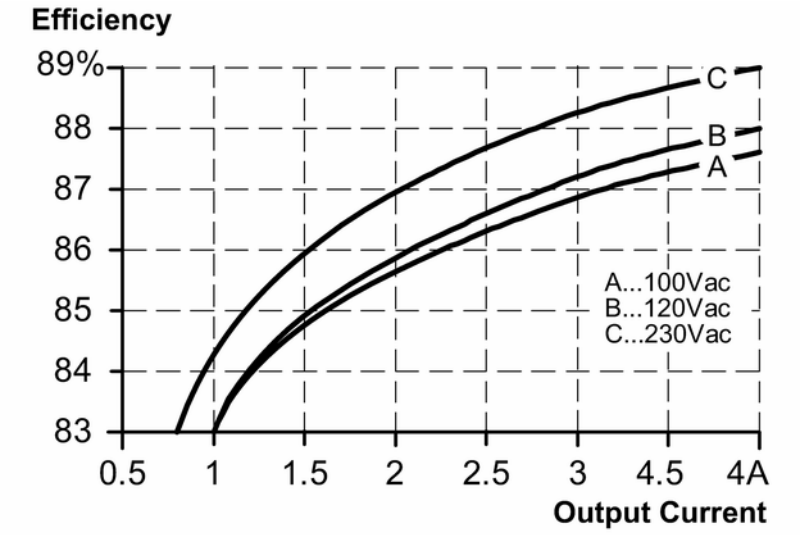
Bloc diagramm

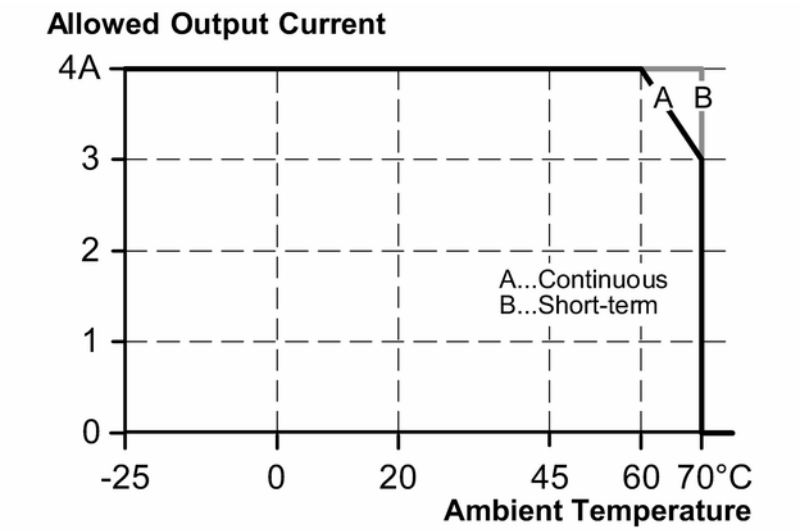
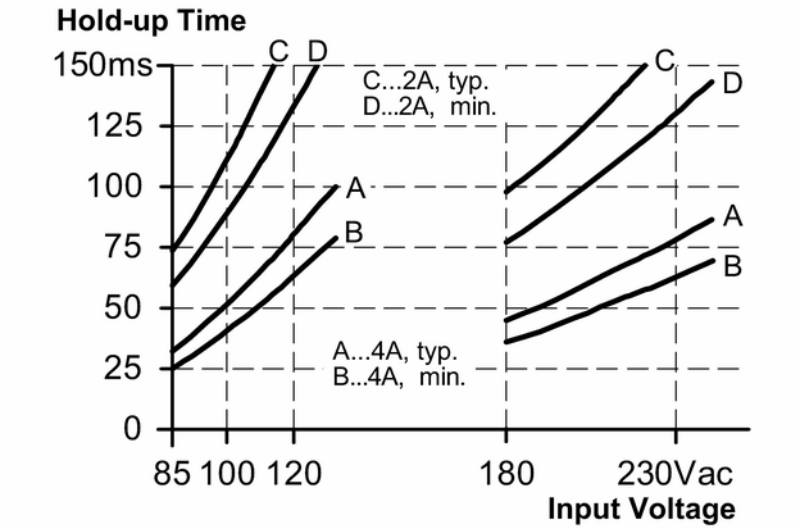


Output curve



Kennlinie für Wirkungsgrad / Verlustleistung



Kennlinie für Derating	
Kennlinie für Netzausfallüberbrückungszeit	

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	[%]	5...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	IEC 60068-2-6	± 1.6 mm (2...25 Hz) / 2 g (17.8...500 Hz)
MTBF [h]		789000
AS-i classification		

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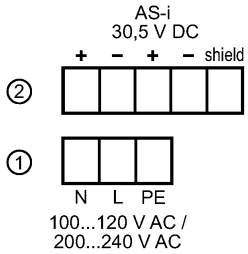
AC1254

PSU-1AC/ASi-4A

Bus system AS-Interface

AS-i certificate		98601
Mechanical data		
Housing materials		steel sheet
Installation		rail TH35 (to EN 60715)
Weight	[kg]	0.615
Displays / operating elements		
Function display	LED	green (indication AS-i voltage)
Electrical connection		
Connection		screw terminals

Wiring



1: primary
2: secondary

Remarks		
Pack quantity	[piece]	1