AC1257

AS-Interface power supply

PSU-24VDC/ASi-4A

1   LED AS-i ok

Electrical data

Operating voltage tolerance	[%]	25...35
Nominal voltage DC	[V]	24
Input voltage DC	[V]	24
Protection class		III
Overvoltage protection		yes; (< 36 V)
Max. power-on delay time	[ms]	650
Output voltage AS-i	[V]	30.5
Output power (permanent)	[W]	122
Output power (peak)	[W]	134
Note on output power (peak)	[W]	briefly to load bus capacities after power on
Power reserve	[%]	10
Number of output circuits		1
Output current AS-i	[A]	4
Max. residual ripple	[mV]	50
Switch-on peak current (nominal voltage 24 V DC)	[A]	2
Inrush current limitation		yes
Efficiency (nominal voltage 24 V DC)	[%]	90.5
External input protection		≤ B-10 A / ≤ C-8 A

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Derating [W/K]	3 (60...70 °C)	
Mains buffering time (nominal [ms] voltage 24 V DC)	6	
Input current (nominal voltage [A] 24 V DC)	5.5	
Power loss (nominal voltage [W] 24 V DC)	12.7	
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 61000-6-3	
	EN 61000-6-4	
Vibration resistance	IEC 60068-2-6	± 1,6 mm 2...17,8 Hz / 2 g 17,8...500 Hz
Shock resistance	IEC 60068-2-27	30 g 6 ms / 20 g 11 ms
AS-i classification		
AS-i certificate	98801	
Mechanical data		
Weight [g]	621	
Type of mounting	rail; (TH35 (EN 60715))	
Dimensions [mm]	124 x 40 x 120	
Material	steel sheet	
Displays / operating elements		
Display	AS-i voltage	LED, green
Remarks		
Pack quantity	1 pcs.	

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Electrical connection

screw terminals:

Connection

AS-i
30,5 V DC

+   −   +   −   shield
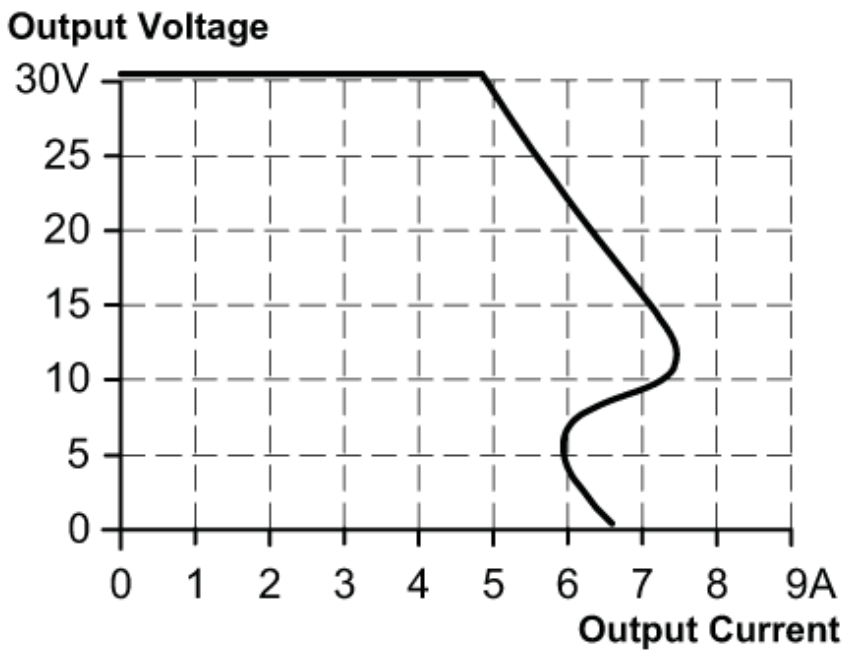
②

①

+   −   ⏚
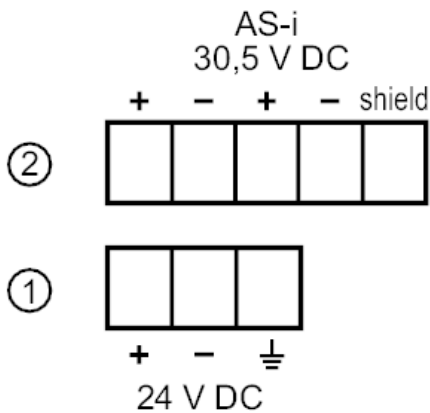
24 V DC

1:         primary
2:         secondary

Diagrams and graphs
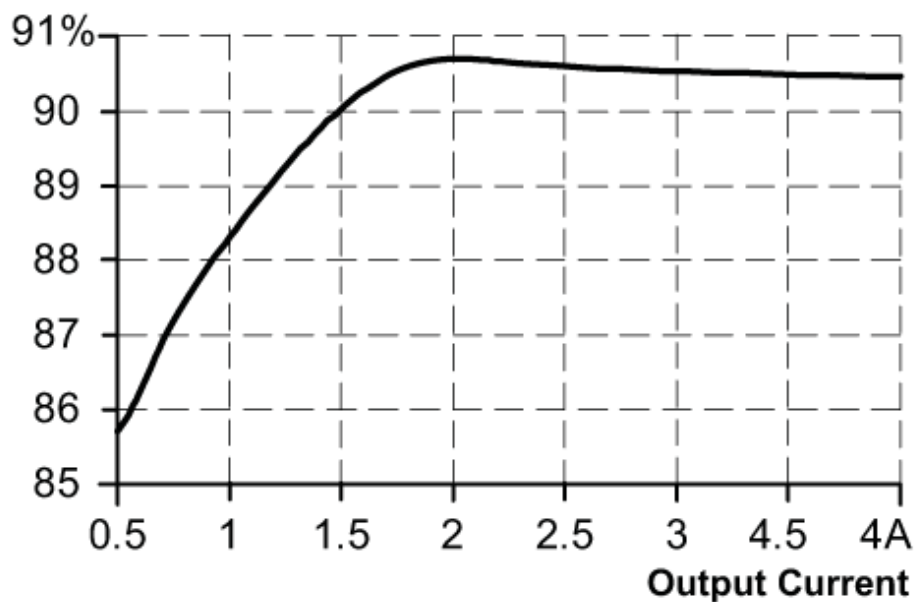
Block diagram
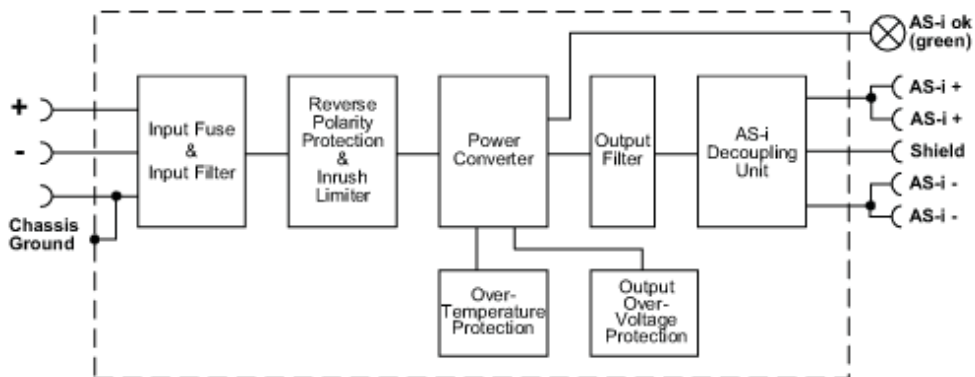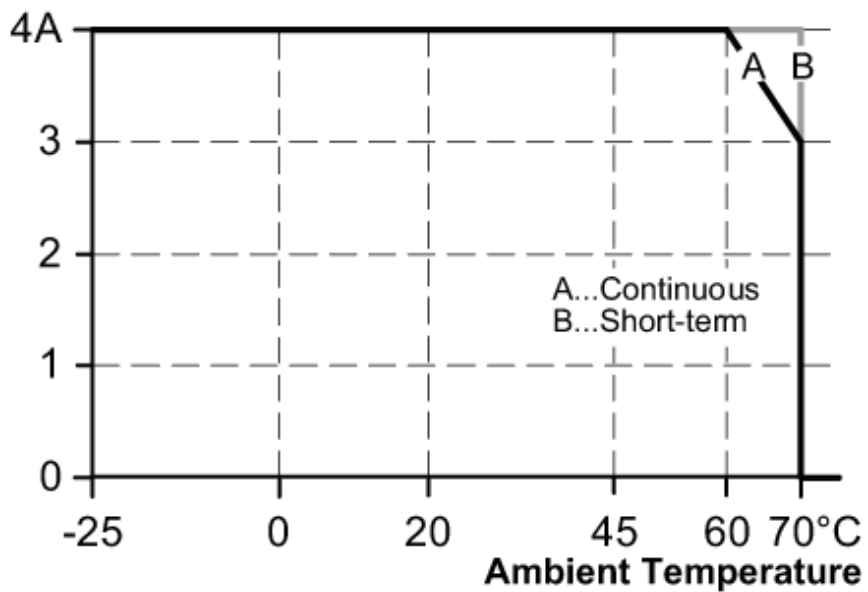

Output curve

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AS-Interface power supply

Characteristic curve for degree of efficiency / power loss

Efficiency

Characteristic curve for derating

Allowed Output Current

A...Continuous
B...Short-term

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AS-Interface power supply

Characteristic curve for mains
buffering time