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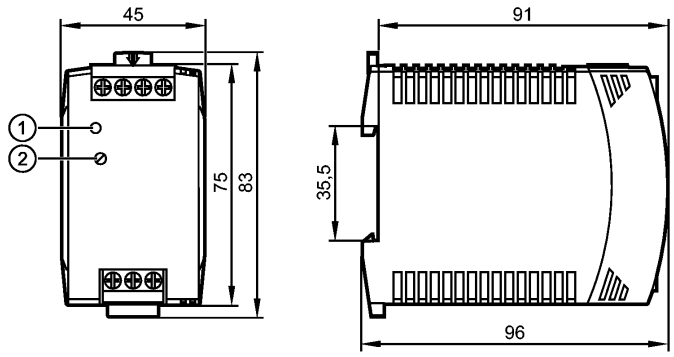
DN1023

PSU-1AC/12VDC-4.5A

Auswertesysteme, Netzteile



1: LED DC ok
2: Potentiometer

Produktmerkmale

Schaltnetzteil 12 V DC

primär getaktet

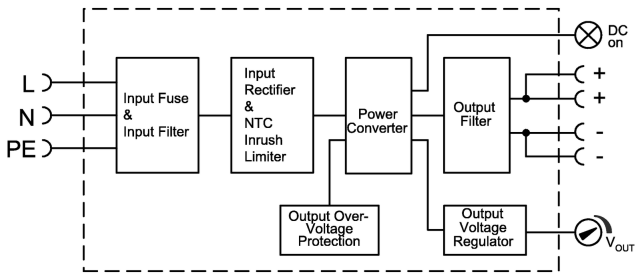
54 W Ausgangsleistung

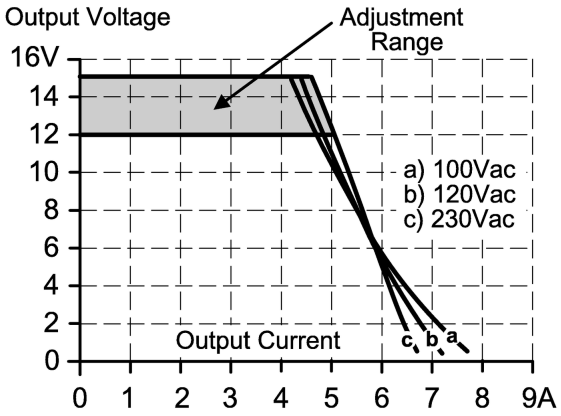
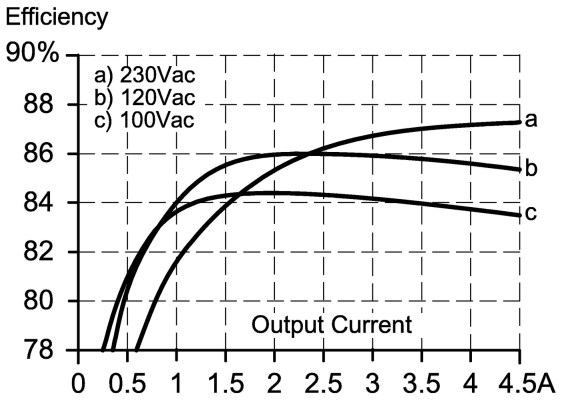
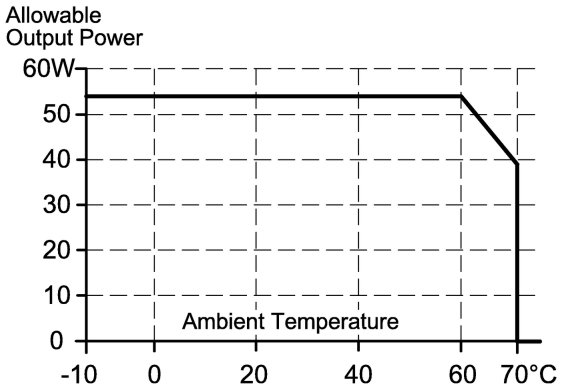
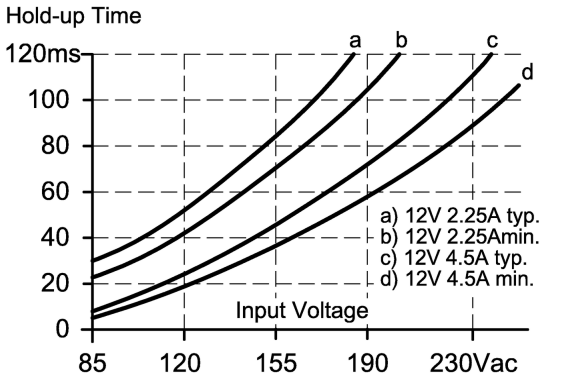
Einsatzbereich

Einsatzbereich	geregelte Stromversorgung für Sensoren, Aktuatoren, Auswerteelektronik und SPS

Elektrische Daten

Eingangsspannungsbereich	[V]	85...264 AC
Nennspannung	[V]	100...240 AC
Nennfrequenz	[Hz]	50...60
Ausgangsspannung	[V]	12...15 DC (±2%) *) nach SELV/PELV
Ausgangsstrom	[A]	4,5 (12 V DC) / 3,6 (15 V DC)
Wirkungsgrad	[%]	87,2 (230 V AC; 12 V DC / 4,5 A)
Kurzschlussschutz		ja
Überlastfest		ja
Derating	[W/K]	1,4 (60...70 °C)
Netzausfallüberbrückungszeit	[ms]	> 113 (230 V AC; 12 V DC / 4,5 A)
Schutzklasse		I
Blockdiagramm		



Ausgangskennlinie	
Kennlinie für Wirkungsgrad / Verlustleistung	
Kennlinie für Derating	
Kennlinie für Netzausfallüberbrückungszeit	
Überspannungsschutz (OVP) [V]	≤ 19
Restwelligkeit [mV]	< 50

Ausgänge

Ausgang	54 W Ausgangsleistung

Umgebungsbedingungen

DN1023

PSU-1AC/12VDC-4.5A

Umgebungstemperatur	[°C]	-10...70
Schutzart		IP 20

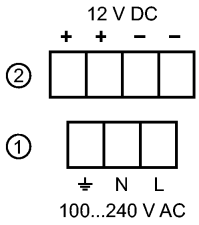
DN1023

PSU-1AC/12VDC-4.5A

Zulassungen / Prüfungen			
EMV		EN 61000-6-1 EN 61000-6-2 EN 61000-6-3 EN 61000-6-4	Störfestigkeit Störemission
Schockfestigkeit		IEC 60068-2-27	
MTBF [h]		1690000 (40° C), SN 29500	
Mechanische Daten			
Gehäusewerkstoffe		Polycarbonat	
Montage		Tragschiene TH35 (gemäß EN 60715)	
Gewicht	[kg]	0,316	
Anzeigen / Bedienelemente			
Funktionsanzeige	LED	grün	
Elektrischer Anschluss			
Anschluss		Schraubklemmen; ≤ 6 mm² (20-10 AWG)	

Anschlussbelegung

1: primär, 2: sekundär



Bemerkungen		
Bemerkungen		*) einstellbar
Verpackungseinheit	[Stück]	1

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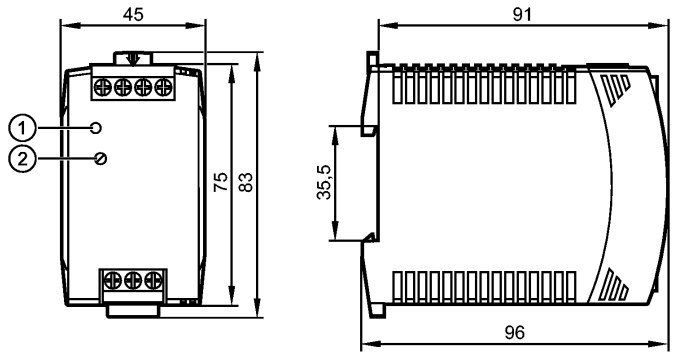
DN1023

PSU-1AC/12VDC-4.5A

Evaluation systems, power supplies



1: LED DC ok
2: potentiometer

Product characteristics

Switched-mode power supply 12 V DC

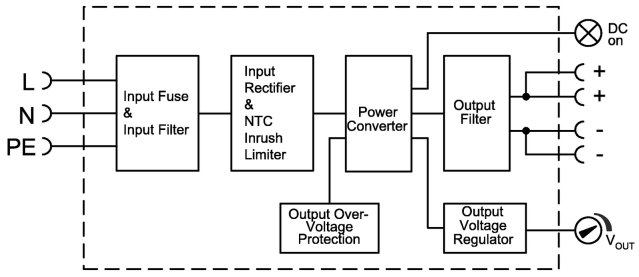
Primary switched mode

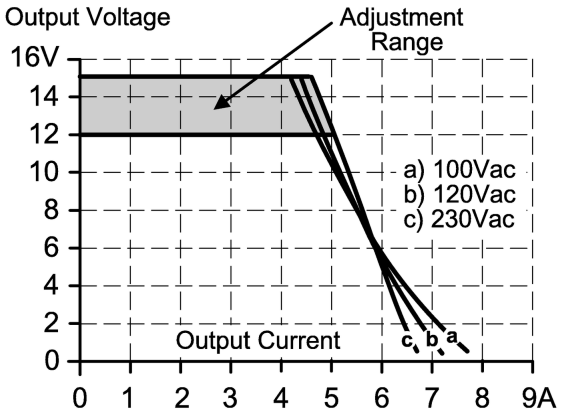
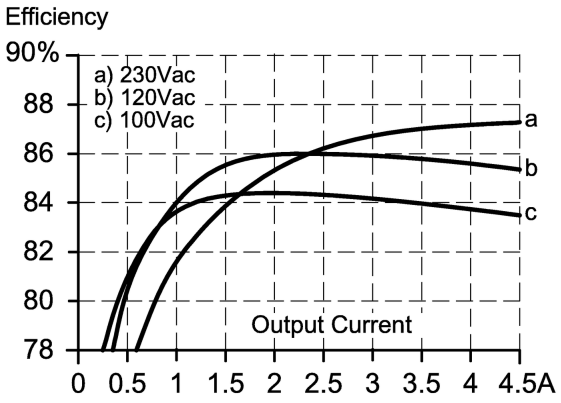
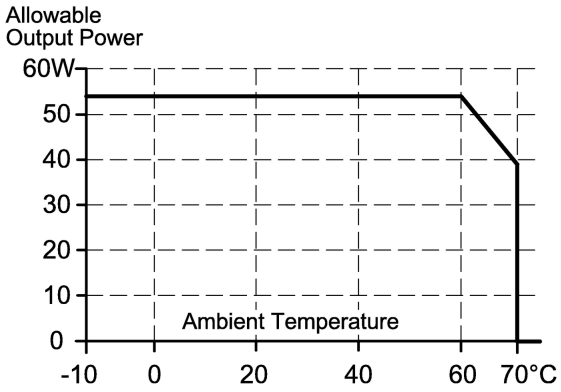
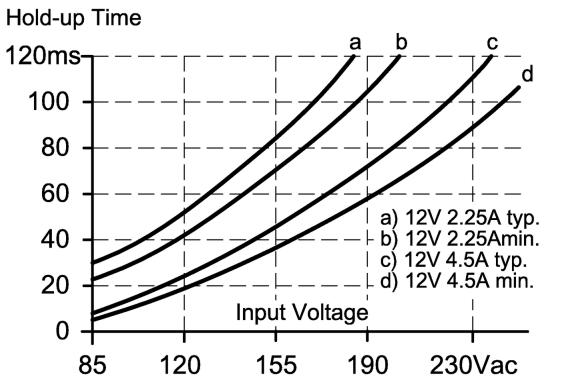
54 W power output

Application

Application		regulated power supply for sensors, actuators, evaluation electronics and plcs

Electrical data

Input voltage range	[V]	85...264 AC
Nominal voltage	[V]	100...240 AC
Nominal frequency	[Hz]	50...60
Output voltage	[V]	12...15 DC (±2%) *) to SELV/PELV
Output current	[A]	4.5 (12 V DC) / 3.6 (15 V DC)
Efficiency	[%]	87.2 (230 V AC; 12 V DC / 4.5 A)
Short-circuit protection		yes
Overload protection		yes
Derating	[W/K]	1.4 (60...70 °C)
Mains buffering time	[ms]	> 113 (230 V AC; 12 V DC / 4.5 A)
Protection class		I
Block diagram		

Output curve	
Characteristic curve for degree of efficiency / power loss	
Characteristic curve for derating	
Characteristic curve for mains buffering time	
Overvoltage protection (OVP) [V]	≤ 19
Residual ripple [mV]	< 50

Outputs

Output	54 W power output

Environment

DN1023

PSU-1AC/12VDC-4.5A

Evaluation systems, power supplies

Ambient temperature	[°C]	-10...70
Protection		IP 20

DN1023

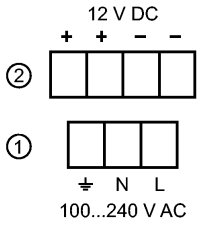
PSU-1AC/12VDC-4.5A

Evaluation systems, power supplies

Tests / approvals		
EMC	EN 61000-6-1 EN 61000-6-2 EN 61000-6-3 EN 61000-6-4	noise immunity radiation of interference
Shock resistance	IEC 60068-2-27	
MTBF [h]	1690000 (40° C), SN 29500	
Mechanical data		
Housing materials	polycarbonate	
Installation	rail TH35 (to EN 60715)	
Weight [kg]	0.316	
Displays / operating elements		
Function display LED	green	
Electrical connection		
Connection	screw terminals; ≤ 6 mm² (20-10 AWG)	

Wiring

1: primary, 2: secondary



Remarks		
Remarks	*) adjustable	
Pack quantity [piece]	1	

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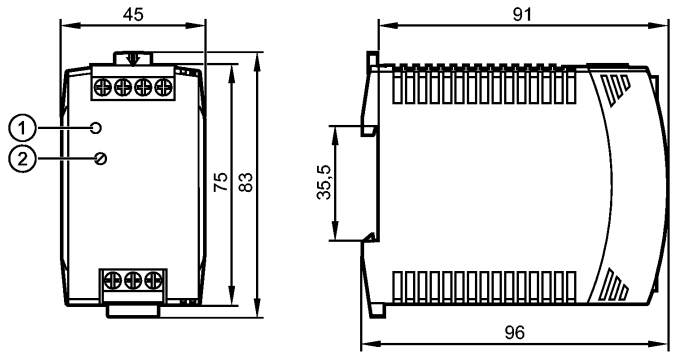
DN1023

PSU-1AC/12VDC-4.5A

Boîtiers de contrôle, alimentations



1: LED DC ok
2: potentiomètre

Caractéristiques du produit

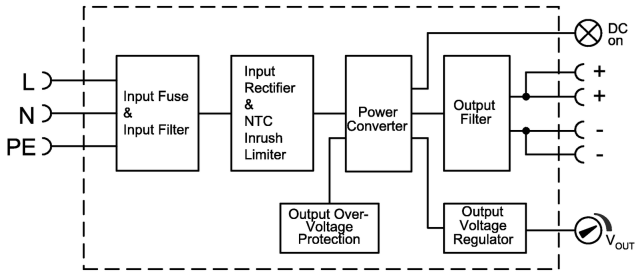
- Alimentation à découpage 12 V DC
- A synchronisation primaire
- Puissance de sortie 54 W

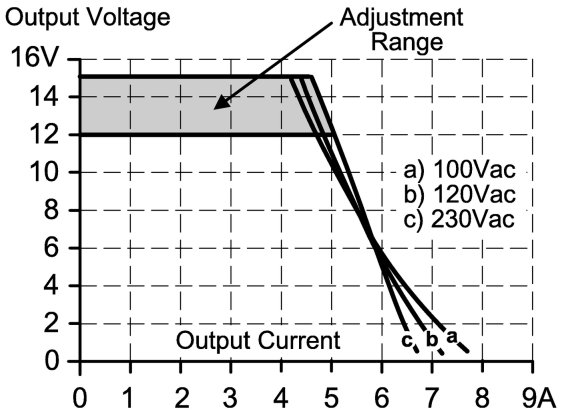
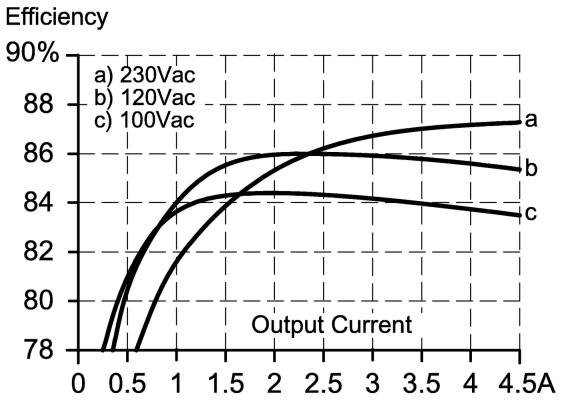
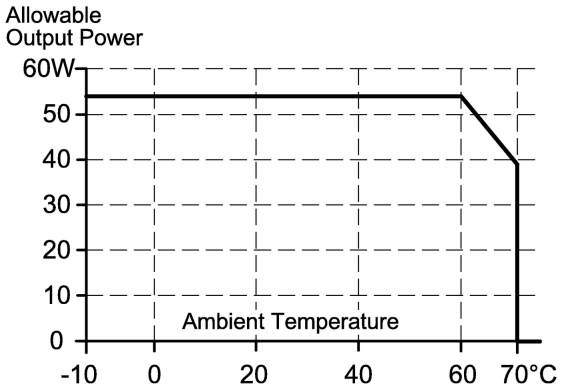
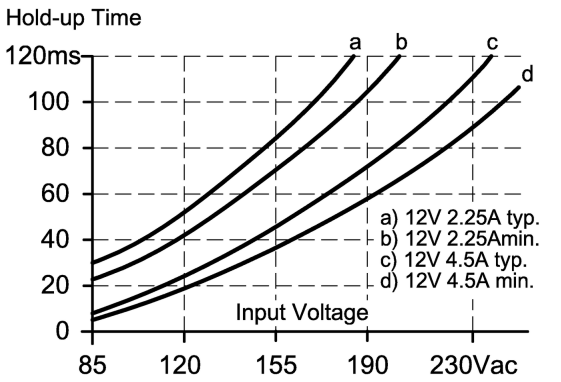
Application

Application	alimentation régulée pour capteurs, actionneurs, boîtiers électroniques et API

Données électriques

Plage de la tension d'entrée	[V]	85...264 AC
Tension nominale	[V]	100...240 AC
Fréquence nominale	[Hz]	50...60
Tension de sortie	[V]	12...15 DC (±2%) *) selon TBTS/TBTP
Courant de sortie	[A]	4,5 (12 V DC) / 3,6 (15 V DC)
Rendement	[%]	87,2 (230 V AC; 12 V DC / 4,5 A)
Protection courts-circuits		oui
Protection surcharges		oui
Derating	[W/K]	1,4 (60...70 °C)
Immunité aux coupures secteur	[ms]	> 113 (230 V AC; 12 V DC / 4,5 A)
Classe de protection		I
schéma bloc		



Caractéristique de sortie	
Courbe caractéristique rendement / perte en puissance	
Courbe caractéristique du déclassement	
Courbe caractéristique de l'immunité aux coupures secteur	
Limiteur de surtension (OVP) [V]	≤ 19
Courant résiduel [mV]	< 50

Sorties

Sortie	Puissance de sortie 54 W

Conditions d'utilisation

DN1023

PSU-1AC/12VDC-4.5A

Boîtiers de contrôle, alimentations

Température ambiante	[°C]	-10...70
Protection		IP 20

DN1023

PSU-1AC/12VDC-4.5A

Boîtiers de contrôle, alimentations

Tests / Homologations

CEM	EN 61000-6-1 EN 61000-6-2 EN 61000-6-3 EN 61000-6-4	immunité aux parasites émission
Tenue aux chocs	CEI 60068-2-27	
MTBF [h]	1690000 (40° C), SN 29500	

Données mécaniques

Matières boîtier	polycarbonate	
Montage	rail TH35 (selon EN 60715)	
Poids	[kg]	0,316

Afficheurs / éléments de service

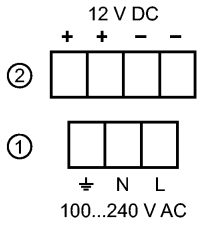
Indication de fonction	LED	vert

Raccordement électrique

Raccordement	Bornes à vis; ≤ 6 mm² (20-10 AWG)

Branchement

1: primaire, 2: secondaire



Remarques

Remarques	*) réglable	
Quantité	[pièce]	1