

Power supplies NS01 for **LinMot®** controllers

The power supplies NS01-48 and NS01-72 are switching power supplies, which are compatible with **LinMot®** 48 VDC and 72 VDC bus controllers. The wide-range input makes the devices suitable for worldwide use and high peak loads allow for great drive accelerations, especially with multi-axes applications. The power supplies are also available with DC voltage. The output side is protected against overloads, overvoltage and short-circuits. All NS01-72 devices are delivered with a passive brake resistor, which can be connected directly to the **LinMot®** controller E1100 terminals. Optionally, reinforced brake resistors and integrated brake chopper electronics are available.



Performance

- compatible with **LinMot®** controller families with 48 VDC and 72 VDC bus
- input voltage range 88 VAC - 264 VAC 50/60 Hz or 120 VDC - 350 VDC
- 48 VDC or 72 VDC output voltage regulated
- high peak loads
- overvoltage, overload & short circuit protection & temperature control
- slim design
- all components with UL approbation
- passive brake resistor
- active chopper electronics and reinforced brake resistor optional

Technical data - power supplies NS01-48 and NS01-72

Technical data		NS01-48/ 320	NS01-72/ 300	NS01-72/ 640	NS01-72/ 1250	NS01-72/ 3000
output voltage regulated	VDC	48 V	72 V			
AC mains input	VAC	88 VAC - 264 VAC / 47 Hz - 63 Hz				
DC input	VDC	120 VDC - 350 VDC				
peak output power / peak output current 230 VAC mains, max. 10 sec., 35 % duty	W/A	320 W / 6,7 A	300 W / 4,3 A	640 W / 8,8 A	1.250 W / 17,5 A	3.000 W / 42,0 A
peak output power / peak output current 115 VAC mains, max. 10 sec., 35 % duty	W/A					2.000 W / 28,0 A
eff. output power / eff. output current	W/A					1.500 W / 20,5 A
power consumption at 100 % load	W	37 W	40 W	70 W	130 W	160 W
internal cooling fan		yes	no	yes		
stored el. energy in output capacitor	Ws	6,0 Ws	1,2 Ws	12,0 Ws	12,0 Ws	
overvoltage, overload, short circuit & overtemperature protection		yes				
overvoltage protection	V	app. 55 V	app. 100 V			
recovering time after overvoltage and thermal shut down		2 to 3 minutes, device must be disconnected from mains!				

Technical data - power supplies NS01-48 and NS01-72 continued

Technical data		NS01-48/ 320	NS01-72/ 300	NS01-72/ 640	NS01-72/ 1250	NS01-72/ 3000
recommended input fuse 230 VAC mains		4 AT	4 AT	10 AT	16 AT	
recommended input fuse 115 VAC mains		6 AT	6 AT	16 AT	25 AT	
terminators		6 mm ²		10 mm ²		
operating temperature / storage temperature	°C	0 – + 45 / - 20 – + 75				
humidity	%	20 – 90 not condensing				
housing		IP20 / VBG4				
approbations		UL60950-1, C-UL(CSA60950-1), EN60950-1, EN50178				
EMC		FCC-B, CISPR22-B, EN55022-B, VCCI-B				
EMC		IEC61000-3-2				
horizontal distance betw. mounting holes	mm	70 + 30		85 + 30		
net weight	kg	1,5	2,5	3,7	3,8	4,4
passive brake resistor		-/-	BR01-10/100 (Standard)			
suitable to supply LinMot controller families		all	except E100			

Technical data - brake resistor BR01

Technical data		BR01-10/100 (Standard)	BR01-05/240 (Option)
resistance	Ω	10	5
nominal power	W	100	240
peak power 50 % duty	W	200	550
peak power 20 % duty	W	400	1.500
peak power 8 % duty	W	750	3.000
surface temperature at 50 % power	°C	120	
overtemperature protection		thermal contact, breaker >140°C	
contact capability of overtemperature protection		250 VAC / 6,3 A	
connectors		500 mm lead frames	
operating temperature / storage temperature	°C	0 – +45 / -20 - +75	
humidity	%	20 – 90 not condensing	
housing		IP 20	
approbations		cCSAus (CSA project#1185101) cURus (UL file#E233422) (both based on CSA-C22.2 No. 0-M91 and No. 14-95 sowie UL 508)	
net weight	kg	0,32	0,7
dimensions (W x H x D)	mm	80 x 110 x 25	80 x 216 x 40

Technical data - chopper-electronic (Option -BC)

Technical data		-BC
turn-on voltage / turn-off voltage	VDC	81 / 79 (Other voltages on demand!)
max. current / minimal load resistance (79 V)	A / Ω	25 / 3,3
max. switching power	W	2.000

Order information

NS01-48/320

NS01-72/xxxx

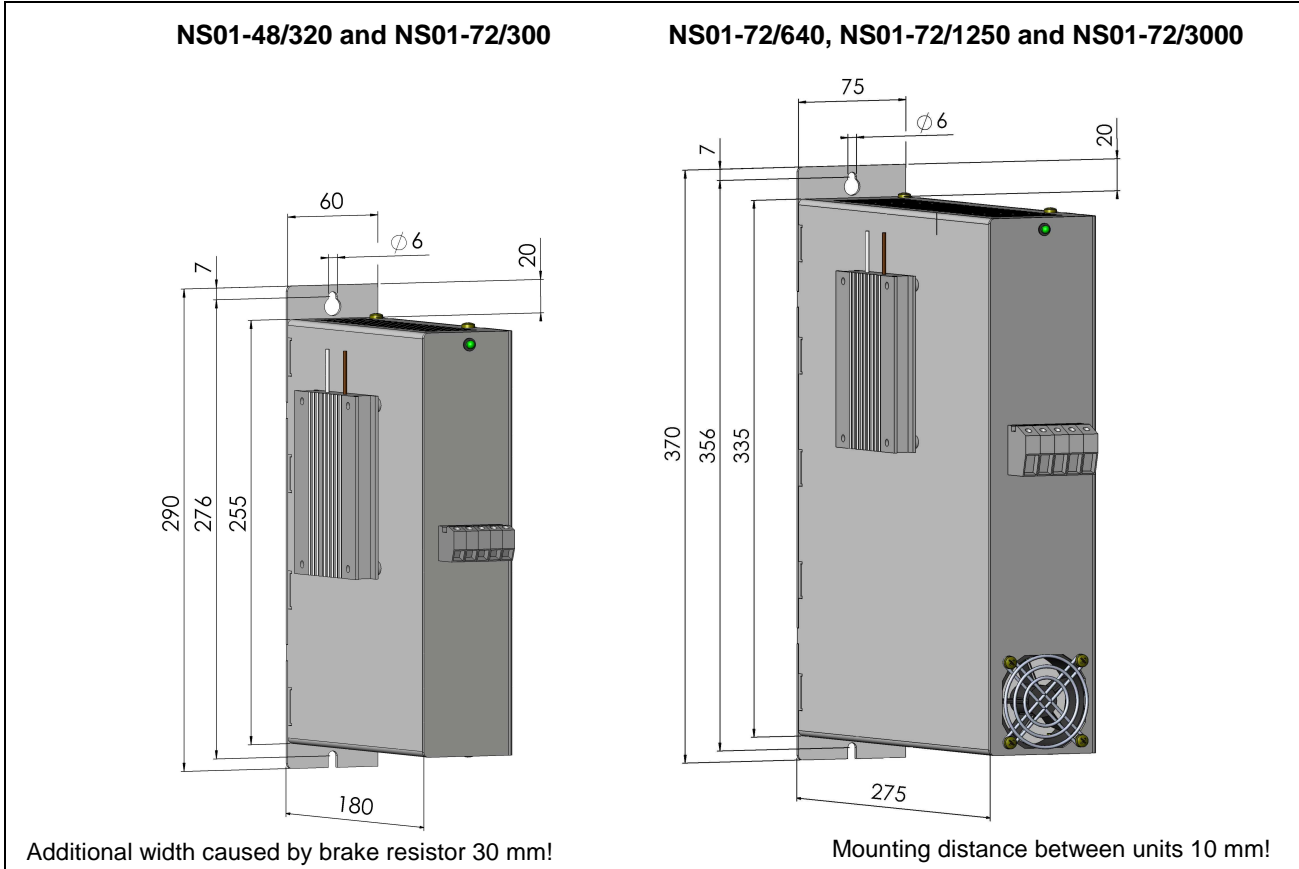
NS01-72/xxxx-BC-BR01-05/240

standard power supply 48 VDC output

power supply with passive brake resistor BR01-10/100 (Standard)

power supply like above with additional chopper electronic –BC and 5 Ω / 240 W brake resistor BR01-05/240

Mechanical dimensions



Connecting power supplies NS01 to LinMot controllers E1100 and E100

