

Linear regulated to EN 61558

Stabilized output voltage

Short-circuit and overload protected

Touch protected to EN 60529 (IP20)

Approvals:



Circuit diagram

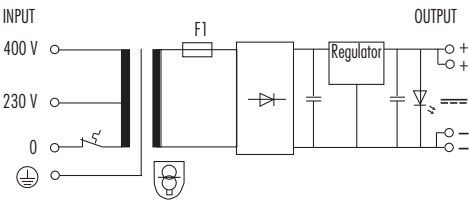
NLS 0.5

Input voltage 230/ 400 V



NLS 1

Input voltage 230/ 400 V AC

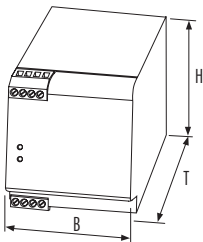


Ordering data		Art.-No.	Art.-No.
	Output rating		
24 V DC/ 0.5 A	12 W	85631	
24 V DC/ 1.0 A	24 W		85633

Input		
Input voltage	230/ 400 V AC	
Input current	120/ 70 mA	230/ 135 mA
Input fuse (external)	0.3/ 0.2 A T	0.6/ 0.4 A T
Frequency	50/60 Hz	
Protection	thermal switch input side	
Output		
Output voltage	24 V DC ± 2 % SELV	
Nom. output current	0.5 A	1 A
Max. output current	2 A (short term)	4 A (short term)
Efficiency	0.56	0.58
Effective ripple	< 2 mV	
Protection	short-circuit and overload protection	
Output fuse F1	1.25 A T (5 x 20 internal)	2.5 A T (5 x 20 internal)
Status indicator	green LED operating, red LED fault	

General data			
Test voltage	EN 61558-2-6, EN 62041 Cat.2, EN 55011 B, EN 61000-3-2		
Temperature range	0...+60 °C, no condensation		
Mounting method	DIN-rail mounting to EN 60715 (TH35)		
Weight	0.62 kg	0.92 kg	
Dimension	H x B x T	75 x 45 x 118 mm	75 x 67.5 x 118 mm

Dimension drawing/Fixing centers



Notes	NLS power supplies meet EN 61000-3-2 guideline.
-------	---

Power supplies – single-phase



Linear regulated to EN 61558

Stabilized output voltage

Short-circuit and overload protected

Touch protected to EN 60529 (IP20)

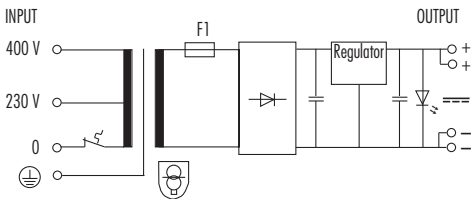
Approvals:

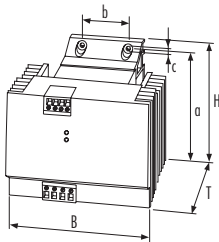
Circuit diagram

NLS 2
Input voltage 230/ 400 V AC



NLS 4
Input voltage 230/ 400 V AC



Ordering data		Art.-No.	Art.-No.
	Output rating		
24 V DC/ 2.0 A	48 W	85635	
24 V DC/ 4.0 A	96 W		85637
Input			
Input voltage	230/ 400 V AC		
Input current	0.46/ 0.27 A	0.85/ 0.49 A	
Input fuse (external)	1.0/ 0.6 A T	1.6/ 1.0 A T	
Frequency	50/60 Hz		
Protection	thermal switch input side		
Output			
Output voltage	24 V DC ± 2 % SELV		
Nom. output current	2 A	4 A	
Max. output current	6 A (short term)	12 A (short term)	
Efficiency	0.59	0.63	
Effective ripple	< 2 mV	< 10 mV	
Protection	short-circuit and overload protection		
Output fuse F1	5 A T (5 x 20 internal)	10 A T (5 x 20 internal)	
Status indicator	green LED operating, red LED fault		
General data			
Test voltage	EN 61558-2-6, EN 62041 Cat.2, EN 55011 B, EN 61000-3-2		
Temperature rang (relative humidity)	0...+60 °C, no condensation		
Mounting method	DIN-rail mounting to EN 60715 (TH35); key hole fixing/screw fixing		
Weight	2.5 kg	4.5 kg	
Dimension	H x B x T	110 x 128 x 135 mm	110 x 172 x 161 mm
Fixing centers	a x b x c	98 x 44 x 4.5 mm	98 x 80 x 4.5 mm
Dimension drawing/Fixing centers			
			
Notes			
NLS power supplies meet EN 61000-3-2 guideline.			

Compact, linear regulated to EN 61558

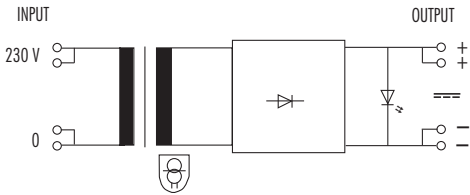
Stabilized output voltage

Touch protected to EN 60529 (IP20)

MKN
Low power P.S.U
Input voltage 230 V AC



Circuit diagram



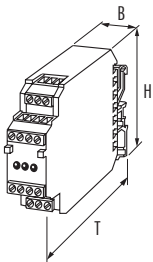
Ordering data	Art.-No.	Art.-No.	Art.-No.	Art.-No.
24 V DC/ 70 mA	85610			
10 V DC/ 80 mA		85615		
5 V DC/200 mA			85620	
9.5...15 V DC/100 mA				85625

Input			
Input voltage	230 V AC		
Input current	approx. 10 mA	approx. 20 mA	approx. 30 mA
Input fuse (external)	63 mA T		
Frequency	50/60 Hz		

Output				
Output voltage	24 V DC $\pm$ 2 % SELV	10 V DC $\pm$ 2 % SELV	5 V DC $\pm$ 2 % SELV	9.5...15 V DC SELV
Max. output current	70 mA	80 mA	200 mA	100 mA
Effective ripple	$\leq$ 10 mV ss			
Output fuse	elec. short-circuit and overload protection			
Output suppression	varistor and smoothing capacitor			
Status indicator	green LED operating			

General data				
Test voltage	EN 61558-2-6, EN 62041 Cat.2, EN 55011 B, EN 61000-3-2			
Temperature range	0...+60 °C, no condensation			
Mounting method	DIN-rail mounting to EN 60715 (TH35) or (G32)			
Weight	0.3 kg			
Dimension	H x B x T	75 x 22.5 x 102 mm		

Dimension drawing/Fixing centers



Notes	MKN power supplies meet EN 61000-3-2 guidelines.
-------	--

Compact, linear regulated
to EN 61558

Stabilized output voltage

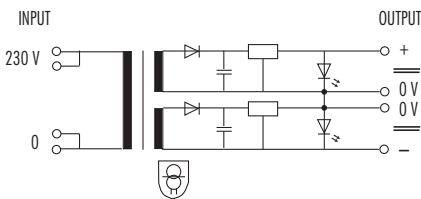
Touch protected to
EN 60529 (IP20)

MKN

Low power P.S.U
Input voltage 230 V AC



Circuit diagram



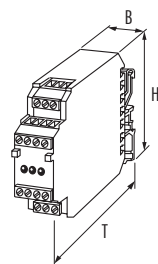
Ordering data	Art.-No.	Art.-No.
2 x 10 V DC/ 2 x 50 mA	85616	
2 x 15 V DC/ 2 x 35 mA		85617

Input	
Input voltage	230 V AC
Input current	approx. 20 mA
Input fuse (external)	63 mA T
Frequency	50/60 Hz

Output		
Output voltage	2 x 10 V DC $\pm$ 5 % SELV	2 x 15 V DC $\pm$ 5 % SELV
Max. output current	2 x 50 mA	2 x 35 mA
Effective ripple	$\leq$ 10 mV ss	
Output fuse	elec. short-circuit and overload protection	
Output suppression	green LED, varistor and smoothing capacitor	
Status indicator	green LED operating	

General data	
Test voltage	EN 61558-2-6, EN 62041 Cat.2, EN 55011 B, EN 61000-3-2
Temperature range	0...+60 °C, no condensation
Mounting method	DIN-rail mounting to EN 60715 (TH35) or (G32)
Weight	0.3 kg
Dimension	H x B x T
	75 x 22.5 x 102 mm

Dimension drawing/Fixing centers



Notes	MKN power supplies meet EN 61000-3-2 guidelines.
-------	--