

General

The galvanic isolation of the input and output sides as well as the alteration of the mains voltage (i.e. into a low voltage) is achieved by the transformer.

The power supply units to EN 61558 are built with either top or side mounted bridge rectifier and electronics. This both protects the electronics and enables the units to meet touch protection guidelines BGV-A2 and EN 60529.

All transformers/power supply units are fitted with angled fixing brackets and key holes to aid simple mounting.

In applications where less than 5 A is required, it is often not practical to replace linear regulated units with primary switch mode units. This is particularly true where the whole system is supplied by an unregulated or large switch mode unit.

Output voltages can become corrupted due to long cable lengths, valves, contactors, other inductive loads and DC/DC converters.

This can lead to, in the worst case, destruction of sensitive equipment or electronics. Areas such as measurement, process control, and medical machinery are especially susceptible to these problems.

Of special note with this range of power supplies, is the capability to provide excess current when necessary. This can be anything up to many times the nominal current and dependent on the level of over current necessary, lasting up to a few minutes.

Smoothed



MEN

Power supplies with smoothed output voltage.

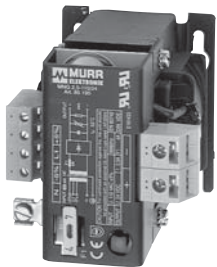
The units are touch protected and have an output fuse up to 7.5 A on the secondary AC-circuit.

Input voltage: 110/230 V AC and 230/400 V AC \pm 15 % reconnectable.

Output voltage: 24 V DC SELV

Output current: 1.0/ 2.5/ 5/ 7.5/ 10/ 15 or 20 A

from page 4.3.2



MNG

Power supplies with smoothed output voltage.

The units are touch protected and have an output fuse on the secondary AC-circuit.

Input voltage: 110 V AC, 230 V AC or 400 V AC \pm 5 % reconnectable.

Output voltage: 24 V DC SELV

Output current: 1.0/ 2.5/ 3.5/ 5/ 7.5/ 10 A

from page 4.3.6

Linear regulated



NLS

The linear regulated power supplies in this series are very stable and have an extremely low ripple.

The units are touch protected, overload and short-circuit protected. DIN-rail mountable.

The integrated electronics allow a short term loading many times higher than the nominal current.

Input voltage: 230/400 V AC

Output voltage: 24 V DC SELV

Output current: 0.5/ 1/ 2/ 4 A

from page 4.3.12



MKN

Linear regulated small DIN-rail mountable power supplies in the MCVO housing.

They require minimal space and have a stable output voltage.

Input voltage: 230 V AC

Output voltage: 5, 10, \pm 10, \pm 15 or 24 V DC as well as an adjustable version 9.5...15 V DC (each SELV)

Output current: 70...200 mA

page 4.3.14

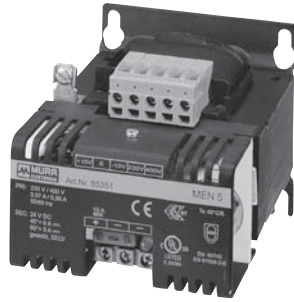
Smoothed

to EN 61558

Touch protected to EN 60529 (IP20)

MEN

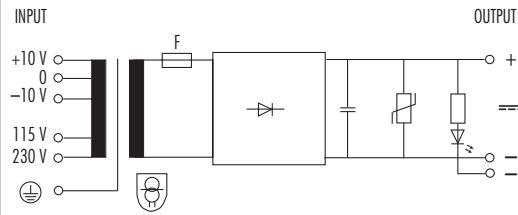
Input voltage 115/ 230 V AC
± 10 V tapings



Approvals:



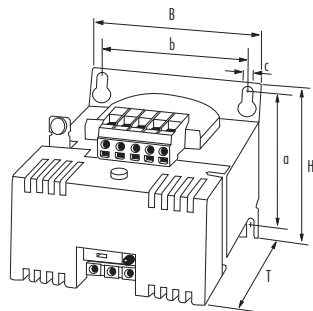
Circuit diagram



Ordering data	Art.-No.	Art.-No.	Art.-No.	Art.-No.
Output rating				
24V DC/ 1 A	8985360			
24V DC/ 2.5 A		8985361		
24V DC/ 5 A			8985362	
24V DC/ 7.5 A				85363

Input		Output			
Input voltage	115/ 230 V AC ± 10 V	24 V DC SELV			
Input current	0.54/ 0.27 A	1.0/ 0.5 A	2.0/ 1.0 A	5.0/ 2.5 A	2.84/ 1.42 A
Input fuse (external)	0.8/ 0.4 A T	1.6/ 1.8 A T	3.15/ 1.6 A T	10 A (automotive fuse FKS)	2.0/ 1.25 A T
Frequency	50/60 Hz	LED, VDR and smoothing capacitor			
Output		General data			
Output voltage	24 V DC SELV	Guidelines			
Max. output current	Ta 60/40°C	1/ 1,5 A	2,5/ 3 A	5/ 6 A	7,5/ 9 A
Effective ripple		-20...+60 °C, no condensation			
Output fuse		3 A (automotive fuse FKS)	5 A (automotive fuse FKS)	10 A (automotive fuse FKS)	15 A (automotive fuse FKS)
Output filter		key-hole mounting			
General data		Weight			
Guidelines	EN 61558-2-6, EN 62041 Cat.1, EN 55011 B, EN 61000-3-2	1.25 kg	2.1 kg	3.0 kg	5.6 kg
Temperature range	-20...+60 °C, no condensation	Dimensions			
Mounting method	key-hole mounting	H x B x T			
Weight		a x b x c			
Dimensions		64 x 78 x 120 mm	83 x 84 x 124 mm	95 x 96 x 136 mm	103 x 105 x 150.5 mm
Fixing centers		47.5 x 56 x 4.8 mm	65.5 x 64 x 4.8 mm	75 x 84 x 5.8 mm	86.5 x 90 x 5.8 mm

Dimension drawing/ Fixing centers



Notes

MEN power supply units meet the EN 61000-3-2 guideline. Products without snap on adapter Art.-No. change from 8985...into 85... (89 will drop). Suitable snap adapter and replacement fuses page see 4.9.2. Wall mounting with any orientation.

Smoothed
to EN 61558

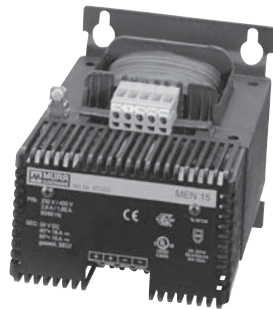
Touch protected to
EN 60529 (IP20)

Approvals:

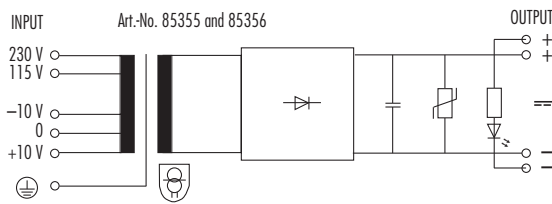


MEN

Input voltage 115/ 230 V AC
± 10 V tapings



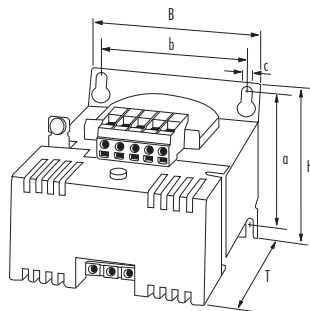
Circuit diagram



Ordering data	Output rating	Art.-No.	Art.-No.	Art.-No.
24 V DC/10 A	240 W	85364		
24 V DC/15 A	360 W		85355	
24 V DC/20 A	480 W			85356

Input		Output		
Input voltage	115/ 230 V AC ± 10 V	24 V DC SELV		
Input current	3.7/ 1.85 A	10/ 12 A	15/ 18 A	20/ 24 A
Input fuse (external)	5.0/ 2.5 A T	8.0/ 4.0 A T	no	
Frequency	50/60 Hz	Effective ripple < 5 %		
Output fuse		20 A (automotive fuse FKS)	no	
Output filter		LED, VDR and smoothing capacitor		
General data		Guidelines		
Guidelines		EN 61558-2-6, EN 62041 Cat.1, EN 55011 B, EN 61000-3-2		EN 55011 A
Temperature range		-20...+60 °C, no condensation		
Mounting method		key-hole mounting		
Weight		6.0 kg	8.2 kg	12.8 kg
Dimensions	H x B x T	112.5 x 120 x 160 mm	138.5 x 135 x 181.5 mm	127 x 174 x 213.5 mm
Fixing centers	a x b x c	94.5 x 90 x 5.8 mm	126 x 104 x 6.5 mm	102 x 135 x 7 mm

Dimension drawing/Fixing centers



Notes

MEN power supply units meet the EN 61000-3-2 guideline, except Art.-No. 85356.
Wall mounting with any orientation.

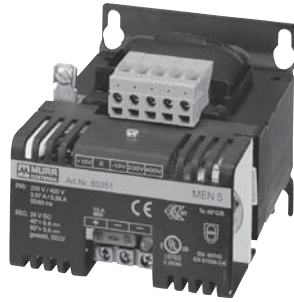
Smoothed

to EN 61558

Touch protected to EN 60529 (IP20)

MEN

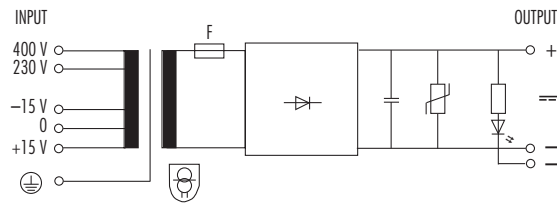
Input voltage 230/ 400 V AC
± 15 V tappings



Approvals:



Circuit diagram



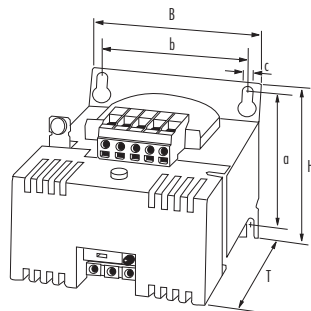
Ordering data	Art.-No.	Art.-No.	Art.-No.	Art.-No.
Output rating				
24 V DC/ 1 A	24 W	8985349		
24 V DC/2.5 A	60 W		8985350	
24 V DC/ 5 A	120 W			8985351
24 V DC/7.5 A	180 W			85357

Input				
Input voltage	230/ 400 V AC ± 15 V			
Input current	0.25/ 0.145 A	0.5/ 0.28 A	0.97/ 0.56 A	1.44/ 0.84 A
Input fuse (external)	0.4/ 0.25 A T	0.8/ 0.5 A T	1.6/ 1.0 A T	2/ 1.25 A T
Frequency	50/60 Hz			

Output					
Output voltage	24 V DC SELV				
Max. output current	Ta 60/40°C	1/ 1.5 A	2.5/ 3 A	5/ 6 A	7.5/ 9 A
Effective ripple	< 5 %				
Output fuse	3 A (automotive fuse FKS)	5 A (automotive fuse FKS)	10 A (automotive fuse FKS)	15 A (automotive fuse FKS)	
Output filter	LED, VDR and smoothing capacitor				

General data					
Guidelines	EN 61558-2-6, EN 62041 Cat.1, EN 55011 B, EN 61000-3-2				
Temperature range	-20...+60 °C, no condensation				
Mounting method	key-hole mounting				
Weight	1.25 kg	2.1 kg	3 kg	5.6 kg	
Dimensions	H x B x T	64 x 78 x 120 mm	83 x 84 x 124 mm	95 x 96 x 136 mm	103 x 105 x 150.5 mm
Fixing centers	a x b x c	47.5 x 56 x 4.8 mm	65.5 x 64 x 4.8 mm	75 x 84 x 5.8 mm	86.5 x 90 x 5.8 mm

Dimension drawing/Fixing centers



Notes

MEN power supply units meet the EN 61000-3-2 guideline. Products without snap on adapter Art.-No. change from 8985...into 85... (89 will drop). Suitable snap adapter and replacement fuses see page 4.9.2. Wall mounting with any orientation.

Smoothed
to EN 61558

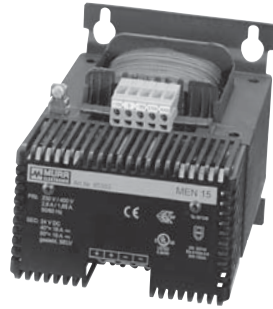
Touch protected to
EN 60529 (IP20)

Approvals:

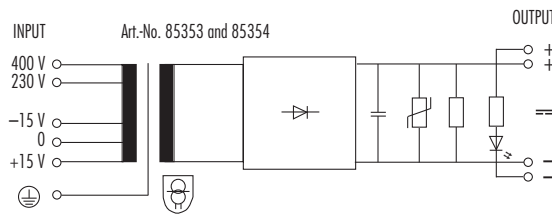


MEN

Input voltage 230/ 400 V AC
± 15 V tapings



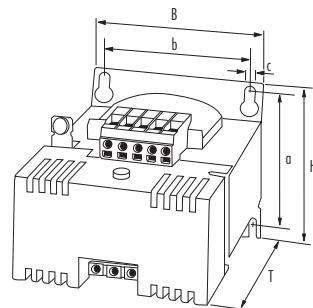
Circuit diagram



Ordering data	Art.-No.	Art.-No.	Art.-No.
Output rating			
24 V DC/ 10 A	240 W	85352	
24 V DC/ 15 A	360 W		85353
24 V DC/ 20 A	480 W		85354

Input			
Input voltage	230/ 400 V AC ± 15 V		
Input current	1.7/ 0.97 A	2.8/ 1.65 A	3.7/ 2.15 A
Input fuse (external)	3.15/ 1.6 A T	4/ 2.5 A T	5/ 3.15 A T
Frequency	50/60 Hz		
Output			
Output voltage	24 V DC SELV		
Max. output current	Ta 60/40°C	10/ 12 A	15/ 18 A
Effective ripple	< 5 %		
Output fuse	20 A (automotive fuse FKS)	no	
Output filter	LED, VDR and smoothing capacitor		
General data			
Guidelines	EN 61558-2-6, EN 62041 Cat.1, EN 55011 B, EN 61000-3-2		EN 55011 A
Temperature range	-20...+60 °C, no condensation		
Mounting method	key-hole mounting		
Weight	6 kg	8.2 kg	12.8 kg
Dimensions	H x B x T	112.5 x 120 x 160 mm	138.5 x 135 x 181.5 mm
Fixing centers	a x b x c	94.5 x 90 x 5.8 mm	126 x 104 x 6.5 mm

Dimension drawing/Fixing centers



Notes

MEN power supply units meet the EN 61000-3-2 guideline, except Art.-No. 85354.
Wall mounting with any orientation.

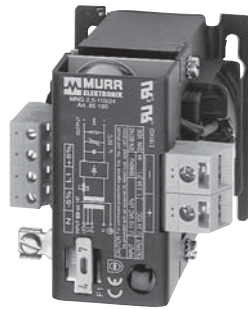
Smoothed

to EN 61558

Touch protected to EN 60529 (IP20)

MNG

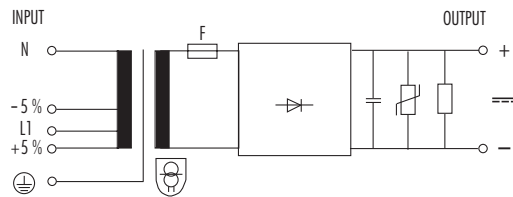
Input voltage 110 V AC \pm 5 % tapings



Approvals:



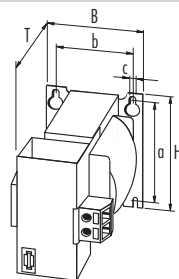
Circuit diagram



Ordering data	Art.-No.	Art.-No.	Art.-No.	Art.-No.
Output rating				
24 V DC/ 1 A	85194			
24 V DC/2.5 A		85190		
24 V DC/3.5 A			85193	
24 V DC/ 5 A				85191

Input					
Input voltage	110 V AC, \pm 5 %				
Input current	0.36 A	0.82 A	1.19 A	1.6 A	
Input fuse (external)	0.63 A T	1 A T	1.5 A T	2 A T	
Frequency	50/60 Hz				
Output					
Output voltage	24 V DC SELV				
Max. output current	1 A	2.5 A	3 A (60 °C); 3.5 A (50 °C)	5 A	
Effective ripple	< 5 %				
Output fuse	2 A (automotive fuse FKS)	4 A (automotive fuse FKS)	7.5 A (automotive fuse FKS)	10 A (automotive fuse FKS)	
Output filter	VDR and smoothing capacitor				
General data					
Guidelines	EN 61558-2-6, EN 62041 Cat.1, EN 55011 B, EN 61000-3-2				
Temperature range	-20...+55 °C, no condensation		-20...+60 °C, no condensation	-20...+55 °C, no condensation	
Mounting method	key-hole mounting				
Weight	1.25 kg	1.7 kg	2.2 kg	3 kg	
Dimensions	H x B x T	78 x 71 x 112 mm	78 x 80 x 111 mm	84 x 87 x 120 mm	96 x 91.5 x 129 mm
Fixing centers	a x b x c	56 x 47.5 x 4.8 mm	56.5 x 53.5 x 4.8 mm	64 x 62 x 4.8 mm	84 x 75.5 x 4.8 mm

Dimension drawing/Fixing centers



Notes

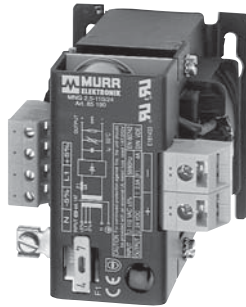
MNG power supply units meet the EN 61000-3-2 guideline.
Suitable snap adapter and replacement fuses see page 4.9.2.

Smoothed
to EN 61558

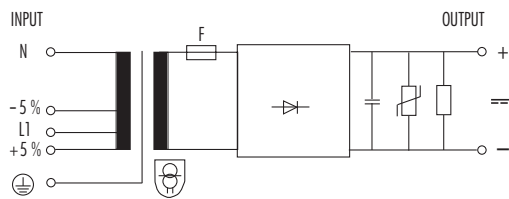
Touch protected to
EN 60529 (IP20)

Approvals:

MNG
Input voltage 110 V AC \pm 5 % tapings



Circuit diagram



Ordering data	Art.-No.	Art.-No.
Output rating		
24 V DC/7.5 A 180 W	85195	
24 V DC/10 A 240 W		85192

Input		
Input voltage	110 V AC, \pm 5 %	
Input current	2.5 A	3.2 A
Input fuse (external)	3.2 A T	4 A T
Frequency	50/60 Hz	

Output		
Output voltage	24 V DC SELV	
Max. output current	7.5 A	10 A
Effective ripple	< 5 %	
Output fuse	15 A (automotive fuse FKS)	20 A (automotive fuse FKS)
Output filter	VDR and smoothing capacitor	

General data		
Guidelines	EN 61558-2-6, EN 62041 Cat.1, EN 55011 B, EN 61000-3-2	
Temperature range	-20...+55 °C, no condensation	
Mounting method	key-hole mounting	
Weight	4.4 kg	5.6 kg
Dimensions H x B x T	105 x 105 x 145 mm	120 x 105 x 174 mm
Fixing centers a x b x c	84 x 86 x 5.8 mm	90 x 86.5 x 5.8 mm

Dimension drawing/Fixing centers		

Notes		
	MNG power supply units meet the EN 61000-3-2 guideline. Replacement fuses see page 4.9.2.	

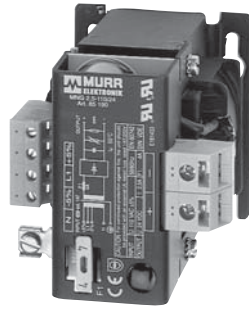
Smoothed

to EN 61558

Touch protected to EN 60529 (IP20)

MNG

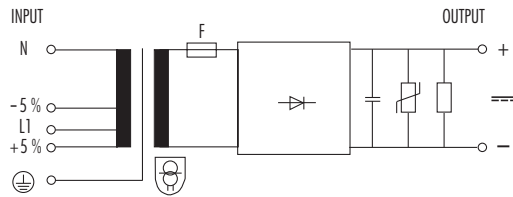
Input voltage 230 V AC \pm 5 % tapings



Approvals:



Circuit diagram



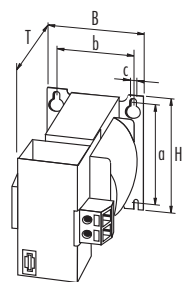
Ordering data	Art.-No.	Art.-No.	Art.-No.	Art.-No.
Output rating				
24 V DC/ 1 A	24 W	85204		
24 V DC/2.5 A	60 W		85200	
24 V DC/3.5 A	84 W			85203
24 V DC/ 5 A	120 W			85201

Input				
Input voltage	230 V AC, \pm 5 %			
Input current	0.17 A	0.4 A	0.56 A	0.8 A
Input fuse (external)	0.25 A T	0.5 A T	0.8 A T	1 A T
Frequency	50/60 Hz			

Output				
Output voltage	24 V DC SELV			
Max. output current	1 A	2.5 A	3 A (60 °C); 3.5 A (50 °C)	5 A
Effective ripple	< 5 %			
Output fuse	2 A (automotive fuse FKS)	4 A (automotive fuse FKS)	7.5 A (automotive fuse FKS)	10 A (automotive fuse FKS)
Output filter	VDR and smoothing capacitor			

General data				
Guidelines	EN 61558-2-6, EN 62041 Cat.1, EN 55011 B, EN 61000-3-2			
Temperature range	-20...+55 °C, no condensation		-20...+60 °C, no condensation	
Mounting method	key-hole mounting			
Weight	1.25 kg	1.7 kg	2.2 kg	3 kg
Dimensions	H x B x T	78 x 71 x 109 mm	78 x 80 x 111 mm	84 x 87 x 120 mm
Fixing centers	a x b x c	56 x 47.5 x 4.8 mm	56.5 x 53.5 x 4.8 mm	64 x 62 x 4.8 mm
84 x 75.5 x 4.8 mm				

Dimension drawing/Fixing centers



Notes
 MNG power supply units meet the EN 61000-3-2 guideline.
 Suitable snap adapter and replacement fuses see page 4.9.2.

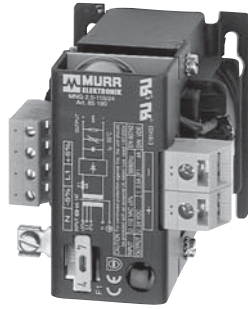
Power supplies – single-phase

Smoothed
to EN 61558

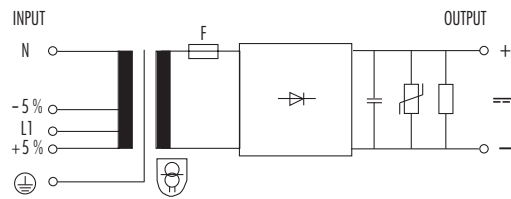
Touch protected to
EN 60529 (IP20)

Approvals:

MNG
Input voltage 230 V AC \pm 5 % tapings



Circuit diagram



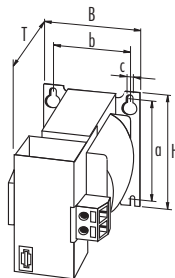
Ordering data	Art.-No.	Art.-No.
Output rating		
24 V DC/7.5 A	180 W	85199
24 V DC/10 A	240 W	85202

Input		
Input voltage	230 V AC, \pm 5 %	
Input current	1.18 A	1.51 A
Input fuse (external)	1.6 A T	2 A T
Frequency	50/60 Hz	

Output		
Output voltage	24 V DC SELV	
Max. output current	7.5 A	10 A
Effective ripple	< 5 %	
Output fuse	15 A (automotive fuse FKS)	20 A (automotive fuse FKS)
Output filter	VDR and smoothing capacitor	

General data		
Guidelines	EN 61558-2-6, EN 62041 Cat.1, EN 55011 B, EN 61000-3-2	
Temperature range	-20...+55 °C, no condensation	
Mounting method	key-hole mounting	
Weight	4.4 kg	5.6 kg
Dimensions	H x B x T	105 x 105 x 145 mm
Fixing centers	a x b x c	84 x 86 x 5.8 mm

Dimension drawing/Fixing centers



Notes		
	MNG power supply units meet the EN 61000-3-2 guideline. Suitable snap adapter and replacement fuses see page 4.9.2.	

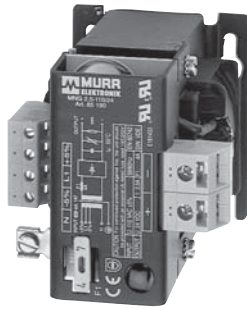
Smoothed

to EN 61558

Touch protected to EN 60529 (IP20)

MNG

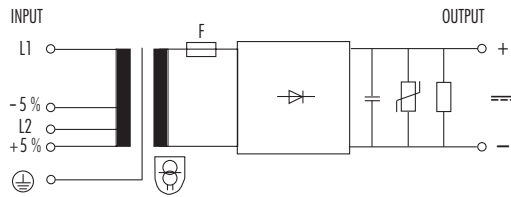
Input voltage 400 V AC $\pm 5\%$ tapings



Approvals:



Circuit diagram



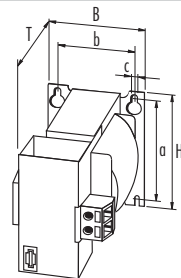
Ordering data	Art.-No.	Art.-No.	Art.-No.	Art.-No.
Output rating				
24 V DC/ 1 A	85209			
24 V DC/2.5 A		85205		
24 V DC/3.5 A			85208	
24 V DC/ 5 A				85206

Input				
Input voltage	400 V AC, $\pm 5\%$			
Input current	0.1 A	0.23 A	0.33 A	0.44 A
Input fuse (external)	0.2 A T	0.25 A T	0.4 A T	0.6 A T
Frequency	50/60 Hz			

Output				
Output voltage	24 V DC SELV			
Max. output current	1 A	2.5 A	3 A (60 °C); 3.5 A (50 °C)	5 A
Effective ripple	< 5 %			
Output fuse	2 A (automotive fuse FKS)	4 A (automotive fuse FKS)	7.5 A (automotive fuse FKS)	10 A (automotive fuse FKS)
Output filter	VDR and smoothing capacitor			

General data				
Guidelines	EN 61558-2-6, EN 62041 Cat.1, EN 55011 B, EN 61000-3-2			
Temperature range	-20...+55 °C, no condensation		-20...+60 °C, no condensation	
Mounting method	key-hole mounting			
Weight	1.25 kg	1.7 kg	2.2 kg	3 kg
Dimensions	H x B x T	78 x 71 x 109 mm	78 x 80 x 111 mm	84 x 87 x 120 mm
Fixing centers	a x b x c	56 x 47.5 x 4.8 mm	56.5 x 53.5 x 4.8 mm	64 x 62 x 4.8 mm

Dimension drawing/Fixing centers



Notes

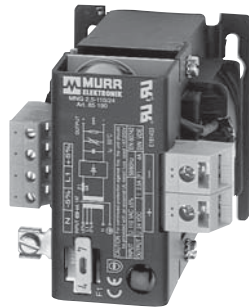
MNG power supply units meet the EN 61000-3-2 guideline.
Suitable snap adapter and replacement fuses see page 4.9.2.

Smoothed
to EN 61558

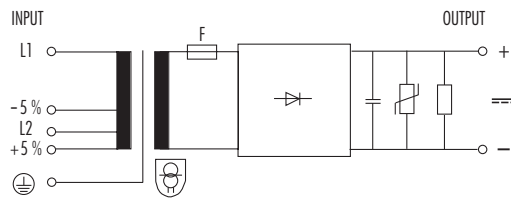
Touch protected to
EN 60529 (IP20)

Approvals:

MNG
Input voltage 400 V AC \pm 5 % tapings



Circuit diagram



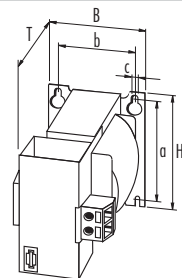
Ordering data	Art.-No.	Art.-No.
Output rating		
24 V DC/7.5 A 180 W	85186	
24 V DC/10 A 240 W		85207

Input		
Input voltage	400 V AC, \pm 5 %	
Input current	0.88 A	0.9 A
Input fuse (external)	1.5 A T	1.25 A T
Frequency	50/60 Hz	

Output		
Output voltage	24 V DC SELV	
Max. output current	7.5 A	10 A
Effective ripple	< 5 %	
Output fuse	15 A (automotive fuse FKS)	20 A (automotive fuse FKS)
Output filter	VDR and smoothing capacitor	

General data		
Guidelines	EN 61558-2-6, EN 62041 Cat.1, EN 55011 B, EN 61000-3-2	
Temperature range	-20...+55 °C, no condensation	
Mounting method	key-hole mounting	
Weight	4.4 kg	5.6 kg
Dimensions H x B x T	105 x 105 x 145 mm	120 x 105 x 174 mm
Fixing centers a x b x c	84 x 86 x 5.8 mm	90 x 86.5 x 5.8 mm

Dimension drawing/Fixing centers



Notes		
	MNG power supply units meet the EN 61000-3-2 guideline. Suitable snap adapter and replacement fuses see page 4.9.2.	

Power supplies – single-phase

Linear regulated to EN 61558

Stabilized output voltage

Short-circuit and overload protected

Touch protected to EN 60529 (IP20)

Approvals:



NLS 0.5

Input voltage 230/ 400 V

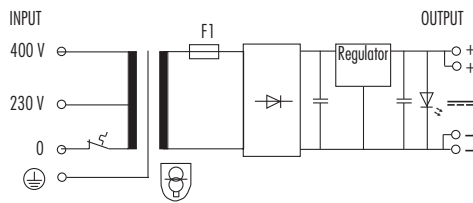


NLS 1

Input voltage 230/ 400 V AC



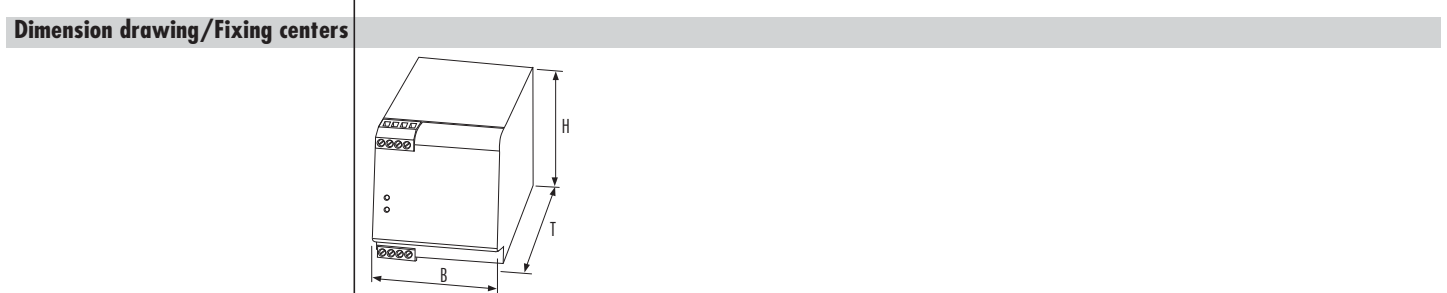
Circuit diagram



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

Input	
Input voltage	230/ 400 V AC
Input current	120/ 70 mA
Input fuse (external)	0.3/ 0.2 A T
Frequency	50/60 Hz
Protection	thermal switch input side
Output	
Output voltage	24 V DC \pm 2 % SELV
Nom. output current	0.5 A
Max. output current	2 A (short term)
Efficiency	0.56
Effective ripple	< 2 mV
Protection	short-circuit and overload protection
Output fuse F1	1.25 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
Dimension	H x B x T
	75 x 45 x 118 mm
	75 x 67.5 x 118 mm



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

Power supplies – single-phase

Power supplies – single-phase

Linear regulated to EN 61558

Stabilized output voltage

Short-circuit and overload protected

Touch protected to EN 60529 (IP20)

Approvals:

NLS 2

Input voltage 230/ 400 V AC

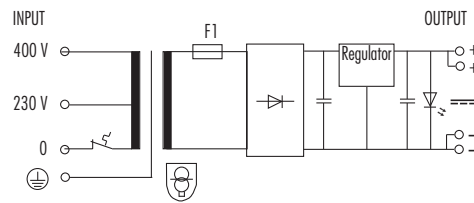


NLS 4

Input voltage 230/ 400 V AC



Circuit diagram

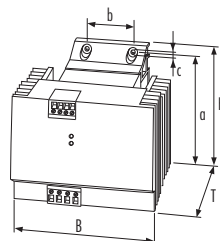


Ordering data	Art.-No.	Art.-No.
Output rating		
24 V DC/ 2.0 A	48 W	85635
24 V DC/ 4.0 A	96 W	85637

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 \pm 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
Fixing centers	a x b x c	98 x 44 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

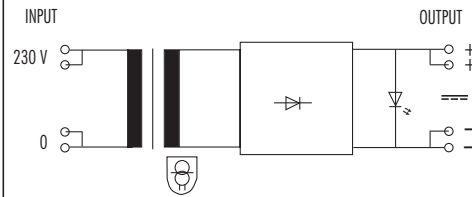
Touch protected to EN 60529 (IP20)

MKN

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



Circuit diagram



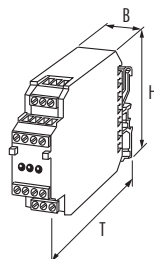
Ordering data	Art.-No.	Art.-No.	Art.-No.	Art.-No.
24 V DC/ 70 mA	85610			
10 V DC/ 80 mA		85615		
5 V DC/200 mA			85620	
9.5...15 V DC/100 mA				85625

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

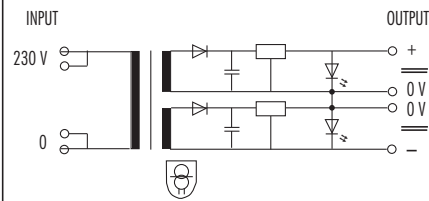
Touch protected to EN 60529 (IP20)

MKN

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



Circuit diagram



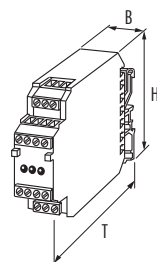
Ordering data	Art.-No.	Art.-No.
2 x 10 V DC / 2 x 50 mA	85616	
2 x 15 V DC / 2 x 35 mA		85617

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.	