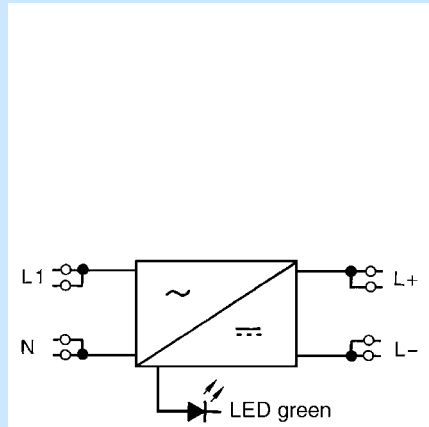
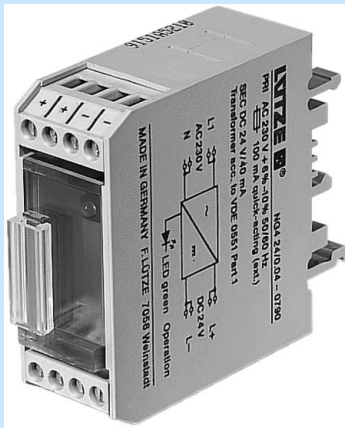


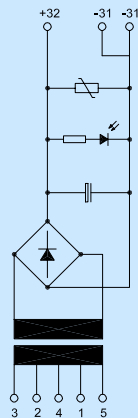
## single-phase, filtered, short-circuit-protected



Type	NG 4 - 0790
Article no.	720790
<b>Technical Data</b>	
Rated power	max. 0.8 W
Rated output-current	max. 40 mA
Efficiency	62%
Dimensions (W x H x D)	22,5 mm x 67 mm x 60 mm
Weight	0,099 kg/pcs
Insulation voltage	4000 V <sub>eff</sub> between input/output

<b>General Data</b>	
Input voltage	AC 230 V
Voltage range	207 V – 243.8 V
Nominal Frequency	50/60 Hz
Connections on primary side	Screw terminals/4 mm <sup>2</sup>
Connections on secondary side	Screw terminals/4 mm <sup>2</sup>
Rated voltage output	DC 24 V
Ripple	< 1 V <sub>ss</sub>
Short-circuit protection	Permanently short-circuit protected
Parallel connection option	no
Status Indication	LED green
Type of protection	IP20
Operating temperature range	0 °C – 60 °C
Mount position/mode	In rows, distance minimum 5 mm
CE conformity	yes
Mount	Can be snapped onto top hat profile TS35 (EN 50 022)

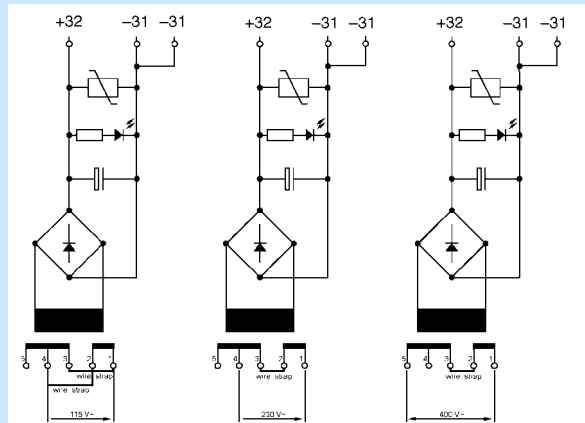
## single-phase, filtered



Voltage	Terminal
415 V	5 – 3
400 V	1 – 3
385 V	4 – 3
245 V	5 – 2
230 V	1 – 2
215 V	4 – 2

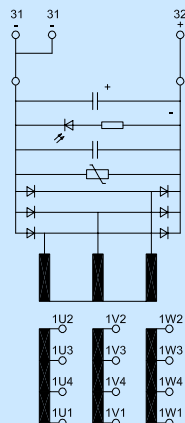
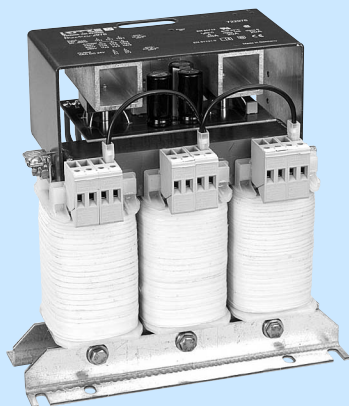
Type	NG 24/2,5-2960	NG 24/5-2961
Article no.	722970	722971
<b>Technical Data</b>		
Rated output-current	2.5 A	5 A
Efficiency	73%	77%
Dimensions (W x H x D)	85 mm x 137 mm x 98 mm	106 mm x 160 mm x 113 mm
Mounting holes	64 mm x 64,5 mm/M 5	83 mm x 80,5 mm/M 5
Weight	2,3 kg/pcs	4,9 kg/pcs
<b>General Data</b>		
Input voltage	AC 230/400 V ± 15	AC 230/400 V ± 15
Voltage range	+ 6% to -10%	+ 6% to -10%
Nominal Frequency	50/60 Hz	50/60 Hz
Connections on primary side	Screw terminals/6 mm <sup>2</sup> with additional flat connector	Screw terminals/6 mm <sup>2</sup> with additional flat connector
Connections on secondary side	Screw terminals/10 mm <sup>2</sup>	Screw terminals/10 mm <sup>2</sup>
Rated voltage output	DC 24 V No-load voltage: DC 30.2 V Full-load voltage: DC 20.4 V	DC 24 V No-load voltage: DC 30.2 V Full-load voltage: DC 20.4 V
Ripple	2.2 – 2.7%	2.2 – 2.7%
Short-circuit protection	no	no
Parallel connection option	yes (with max. 90% rated current)	yes (with max. 90% rated current)
Status Indication	LED green	LED green
Type of protection	IP00	IP00
Protection class	I	I
Operating temperature range	-25 °C – 60 °C	-25 °C – 60 °C
Mount position/mode	any	any
Standards	Transformer compliant with IEC 61 558; Output limit values compliant with EN 61 131-2; EMC compliant with EN 50 081-1 and EN 50 082-2; Mains connection compliant with 61 000-3-2	Transformer compliant with IEC 61 558; Output limit values compliant with EN 61 131-2; EMC compliant with EN 50 081-1 and EN 50 082-2; Mains connection compliant with 61 000-3-2
CE conformity	yes	yes
Approvals	UR and CSA	UR and CSA

## single-phase, filtered



Type	NG 24/2,5-2611	NG 24/10-2932
Article no.	722962	722972
<b>Technical Data</b>		
Rated output-current	2.5 A	10 A
Efficiency	73%	77%
Dimensions (W x H x D)	85 mm x 137 mm x 98 mm	121 mm x 170 mm x 128 mm
Mounting holes	64 mm x 64,5 mm/M 5	104 mm x 90 mm/M 5
Weight	2,3 kg/pcs	7,5 kg/pcs
Type	NG 24/5-2612	NG 24/15-2933
Article no.	722963	722973
<b>Technical Data</b>		
Rated output-current	5 A	15 A
Efficiency	77%	80%
Dimensions (W x H x D)	106 mm x 160 mm x 113 mm	151 mm x 200 mm x 145 mm
Mounting holes	83 mm x 80,5 mm/M 5	90 mm x 122 mm/M 6
Weight	4,9 kg/pcs	9 kg/pcs
<b>General Data</b>		
Input voltage	AC 115/230/400 V	AC 115/230/400 V
Voltage range	+ 6% to -10%	+ 6% to -10%
Nominal Frequency	50/60 Hz	50/60 Hz
Connections on primary side	Screw terminals/6 mm <sup>2</sup> with additional flat connector	Screw terminals/6 mm <sup>2</sup> with additional flat connector
Connections on secondary side	Screw terminals/10 mm <sup>2</sup>	Screw terminals/10 mm <sup>2</sup>
Rated voltage output	DC 24 V No-load voltage: DC 30.2 V Full-load voltage: DC 20.4 V	DC 24 V No-load voltage: DC 30.2 V Full-load voltage: DC 20.4 V
Ripple	2.2 – 2.7%	< 5%
Short-circuit protection	no	no
Parallel connection option	yes (with max. 90% rated current)	yes (with max. 90% rated current)
Status Indication	LED green	LED green
Type of protection	IP00	IP00
Protection class	I	I
Operating temperature range	-25 °C – 60 °C	-25 °C – 60 °C
Mount position/mode	any	any
Standards	Transformer compliant with IEC 61 558; Output limit values compliant with EN 61 131-2; EMC compliant with EN 50 081-1 and EN 50 082-2; Mains connection compliant with 61 000-3-2	Transformer compliant with IEC 61 558; Output limit values compliant with EN 61 131-2; EMC compliant with EN 50 081-1 and EN 50 082-2; Mains connection compliant with 61 000-3-2
CE conformity	yes	yes
Approvals	UR and CSA	UR and CSA

## three-phase, filtered



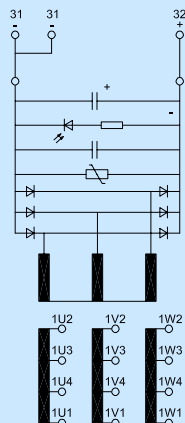
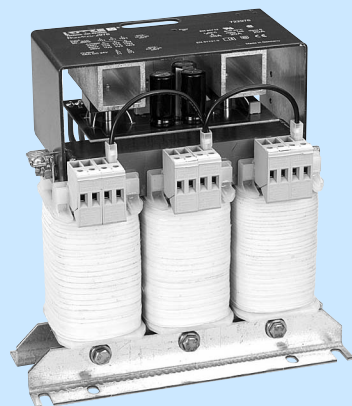
Voltage	Terminal	Bridge
420 V	1U1 – 1V1 – 1W1	1U2 – 1V2 – 1W2
400 V (415)	1U1 – 1V1 – 1W1	1U4 – 1V4 – 1W4 (Dispatching Circuit)
380 V	1U1 – 1V1 – 1W1	1U3 – 1V3 – 1W3

Type	NG 24/10-2934	NG 24/20-2936
Article no.	722974	722976
<b>Technical Data</b>		
Rated output-current	10 A	20 A
Efficiency	82%	85%
Dimensions (W x H x D)	164 mm x 190 mm x 115 mm	216 mm x 220 mm x 115 mm
Mounting holes	48 mm x 113 (150) mm/M 5	55 mm x 136 (200) mm/M 6
Weight	5 kg/pcs	8 kg/pcs

Type	NG 24/15-2935	NG 24/30-2937
Article no.	722975	722977
<b>Technical Data</b>		
Rated output-current	15 A	30 A
Efficiency	84%	86%
Dimensions (W x H x D)	164 mm x 190 mm x 115 mm	216 mm x 220 mm x 158 mm
Mounting holes	63 mm x 113 (150) mm/M 5	75 mm x 136 (200) mm/M 6
Weight	6,5 kg/pcs	11,5 kg/pcs

<b>General Data</b>		
Input voltage	3 AC 380/400/420 V	3 AC 380/400/420 V
Voltage range	+ 6% to -10%	+ 6% to -10%
Nominal Frequency	50/60 Hz	50/60 Hz
Connections on primary side	Screw terminals/6 mm <sup>2</sup> with additional flat connector	Screw terminals/6 mm <sup>2</sup> with additional flat connector
Connections on secondary side	Screw terminals/10 mm <sup>2</sup>	Screw terminals/10 mm <sup>2</sup>
Rated voltage output	DC 24 V	DC 24 V
Ripple	< 5%	< 5%
Short-circuit protection	no	no
Parallel connection option	yes (at max. 90 % rated current)	yes (at max. 90 % rated current)
Status Indication	LED green	LED green
Type of protection	IP00	IP00
Protection class	I	I
Operating temperature range	-25 °C – 60 °C	-25 °C – 60 °C
Mount position/mode	any	any
Standards	Transformer compliant with IEC 61 558; Output limit values compliant with EN 61 131-2; EMC compliant with EN 50 081-1 and EN 50 082-2; Mains connection compliant with 61 000-3-2	transformer as per IEC 61 558; output limiting value as per EN 61 131-2; EMC acc. to EN 50 081-1 and EN 50 082-2; supply connection acc. to 61 000-3-2
CE conformity	yes	yes
Approvals	UR and CSA	UR and CSA

## three-phase, filtered

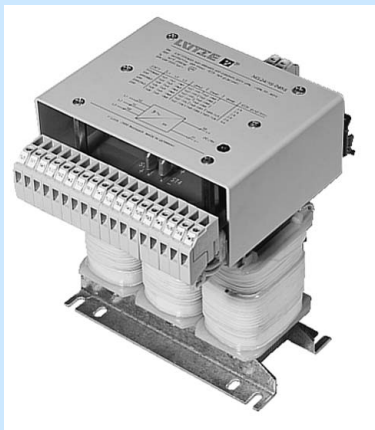


Voltage	Terminal	Bridge
420 V	1U1 – 1V1 –1W1	1U2 – 1V2 –1W2
400 V (415)	1U1 – 1V1 –1W1	1U4 – 1V4 –1W4 (Discharging Circuit)
380 V	1U1 – 1V1 –1W1	1U3 – 1V3 –1W3

Type	<b>NG 24/50-2939</b>
Article no.	<b>722979</b>
<b>Technical Data</b>	
Rated output-current	50 A
Efficiency	86%
Dimensions (W x H x D)	266 mm x 260 mm x 190 mm
Mounting holes	94 mm x 176 (250) mm/M 6
Weight	21 kg/pcs

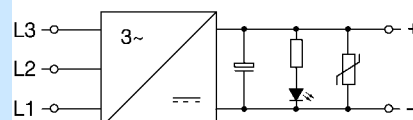
<b>General Data</b>	
Input voltage	3 AC 380/400/420 V
Voltage range	+ 6% to -10%
Nominal Frequency	50/60 Hz
Connections on primary side	Screw terminals/6 mm <sup>2</sup> with additional flat connector
Connections on secondary side	Screw terminals/10 mm <sup>2</sup>
Rated voltage output	DC 24 V
Ripple	< 5%
Short-circuit protection	no
Parallel connection option	yes (at max. 90 % rated current)
Status Indication	LED green
Type of protection	IP00
Protection class	I
Operating temperature range	-25 °C – 60 °C
Mount position/mode	any
Standards	Transformer compliant with IEC 61 558; Output limit values compliant with EN 61 131-2; EMC compliant with EN 50 081-1 and EN 50 082-2; Mains connection compliant with 61 000-3-2
CE conformity	yes
Approvals	UR and CSA

## Multiple-range input, three-phase, filtered



Connection Scheme

3 AC V	L1	L2	L3	o—o	o—o	o—o
575	1U1	1V1	1W1	1U2-1V2	1V2-1W2	
500	1U3	1V3	1W3	1U2-1V2	1V2-1W2	
460	1U4	1V4	1W4	1U2-1V2	1V2-1W2	
400	1U5	1V5	1W5	1U2-1V2	1V2-1W2	
230	1U5	1V5	1W5	1U2-1V5	1V2-1W5	1W2-1U5
200	1U6	1V6	1W6	1U2-1V6	1V2-1W6	1W2-1U6

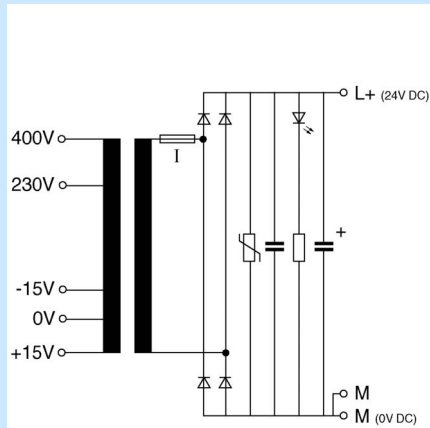
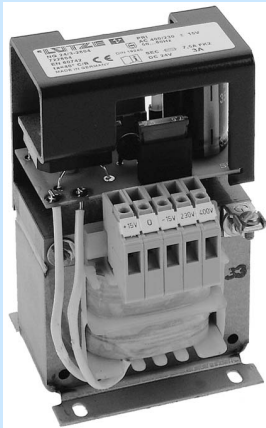


Type	<b>NG 24/15-0955</b>	<b>NG 24/50-0959</b>
Article no.	<b>720955</b>	<b>720959</b>
<b>Technical Data</b>		
Rated output-current	13.5 A	45 A
Efficiency	84%	86%
Dimensions (W x H x D)	164 mm x 190 mm x 115 mm	266 mm x 298 mm x 175 mm
Mounting holes	113 mm x 63 mm/M 5	250 mm x 94 mm/M 6
Weight	6,5 kg/pcs	21 kg/pcs

Type	<b>NG 24/30-0957</b>
Article no.	<b>720957</b>
<b>Technical Data</b>	
Rated output-current	27 A
Efficiency	86%
Dimensions (W x H x D)	219 mm x 224 mm x 164 mm
Mounting holes	201 mm x 89 mm/M 6
Weight	11,5 kg/pcs

<b>General Data</b>		
Input voltage	3 AC 200/230/400/460/500/575 V	3 AC 200/230/400/460/500/575 V
Voltage range	+ 6% to -10%	+ 6% to -10%
Nominal Frequency	50/60 Hz	50/60 Hz
Connections on primary side	Screw terminals/6 mm <sup>2</sup> with additional flat connector	Screw terminals/6 mm <sup>2</sup> with additional flat connector
Connections on secondary side	Screw terminals/10 mm <sup>2</sup> one-wire: 0.5–10 mm <sup>2</sup> fine strand: 0.5–10 mm <sup>2</sup>	Screw terminals/10 mm <sup>2</sup>
Rated voltage output	DC 24 V No-load voltage: DC 30.2 V Full-load voltage: DC 20.4 V	DC 24 V No-load voltage: DC 30.2 V Full-load voltage: DC 20.4 V
Ripple	< 5%	< 5%
Short-circuit protection	no	no
Parallel connection option	yes (with max. 90% rated current)	yes (with max. 90% rated current)
Status Indication	LED green	LED green
Type of protection	IP00	IP00
Protection class	I	I
Operating temperature range	-25 °C – 60 °C	-25 °C – 60 °C
Mount position/mode	any	any
Standards	VDE 0550 Part 1, DIN EN 60742 (VDE 0551 Part 1)	VDE 0550 Part 1, DIN EN 60742 (VDE 0551 Part 1)
CE conformity	yes	yes
Approvals	UL	UL

single-phase, filtered, use up to 40°C



Type	NG 24/3-2620 with fusing	NG 24/10-2622 with fusing
Article no.	722620	722622
<b>Technical Data</b>		
Rated output-current	3 A	10 A
Efficiency		
Dimensions (W x H x D)	84 mm x 146 mm x 76,5 mm	120 mm x 174 mm x 101,5 mm
Mounting holes	65 mm x 64 mm/M 4	85 mm x 90 mm/M 5
Weight	2,3 kg/pcs	5,6 kg/pcs
Type	<b>NG 24/36-2621 with fusing</b>	
Article no.	722621	
<b>Technical Data</b>		
Rated output-current	6 A	
Efficiency		
Dimensions (W x H x D)	96 mm x 156 mm x 103 mm	
Mounting holes	86,5 mm x 84 mm/M 5	
Weight	3,9 kg/pcs	
<b>General Data</b>		
Input voltage	AC 230/400 V ± 15 V	AC 230/400 V ± 15 V
Voltage range	+ 6% to -10%	+ 6% to -10%
Nominal Frequency	50/60 Hz	50/60 Hz
Connections on primary side	Screw terminals/6 mm <sup>2</sup> with additional flat connector	Screw terminals/6 mm <sup>2</sup> with additional flat connector
Connections on secondary side	Screw terminals/4 mm <sup>2</sup>	Screw terminals/4 mm <sup>2</sup>
Rated voltage output	DC 24 V	DC 24 V
Ripple	< 5%	< 5%
Short-circuit protection	no	no
Parallel connection option	yes	yes
Status Indication	LED green	LED green
Type of protection	IP00	IP00
Protection class	I	I
Operating temperature range	-25 °C – 40 °C	-25 °C – 40 °C
Mount position/mode	hanging	hanging
Standards	EN 50081-2; EN 50082-2; safety transformer compliant with IEC 61558; output voltage compliant with EN 61131-2	EN 50081-2; EN 50082-2; safety transformer compliant with IEC 61558; output voltage compliant with EN 61131-2
CE conformity	yes	yes

single-phase, primary-switched, compact and light, short-circuit-protected, large input voltage range, adjustable output voltage



Type	NGP 24/2-2730	NGP 24/2-6213
Article no.	722730	716213
<b>Technical Data</b>		
Input voltage	AC 120/230 V	AC 230 V
Voltage range	AC 93 – 132 V/187 – 264 V	AC 190 – 254 V
Rated power	58 W	50 W
Nominal Frequency	50/60 Hz	50/60 Hz
Frequenzbereich	47 Hz – 63 Hz	Hz – Hz
Power interruption sustain time	> 20 ms at full load and 93/187 V	< 10 ms
Rated current (at $U_N$ )	0.9 A at 120 V/0.6 A at 230 V	0,35 A
Connections on primary side	Screw terminals/2.5 mm <sup>2</sup>	Spring clamps
Rated voltage output	DC 24 V	DC 24 V
Output voltage tolerance	± 1%	± 1%
Output voltage, setting range	DC 22,8 – 28,8 V	DC 10 – 25 V
Rated output-current	2 A	2 A
Current limitation	1.1 – 1.3 × rated current	1.1 × rated current
Ripple	< 150 mVss	< 100 mVss
Efficiency	82%	max. 85 %
Short-circuit protection	Switches off in the event of a short circuit, automatic restart	Switches off in the event of a short circuit, automatic restart
Parallel connection option	Yes, up to 5 units Restriction, temperature range 0 to + 50°C	no
Status Indication	Green LED	Green LED
Connections on secondary side	Screw terminals/2.5 mm <sup>2</sup>	Spring clamps

<b>General Data</b>		
Degree of interference suppression (EN 55022)	Limit value curve B compliant with EN 55022	Class B
Type of protection	IP20	IP20
Protection class	I compliant with IEC 536	1
Operating temperature range	0 °C – 60 °C	-25 °C – 60 °C
Dimensions (W × H × D)	50 mm × 125 mm × 125 mm	59,9 mm × 120 mm × 62,5 mm
Weight	0,38 kg/pcs	0,239 kg/pcs
Mount position/mode	Can be snapped onto top hat profile TS35 (EN 50022)	Can be snapped onto top hat profile TS35 (EN 50022)
Standards	VDE 0160 and VDE 0805 (EN 60950) SELV	EMC interference transmission EN 50081-1, resistance to interference EN 50082-2
CE conformity	yes	yes
Approvals	UL, CSA	UL, CSA pending
Accessories	With 110 V input voltage, a bridge is required NB: this bridge carries hazardous voltage	



single-phase, primary-switched, compact and light, short-circuit-protected, large input voltage range up to 500 V, adjustable output voltage



Type	NGP 24/5-2741	NGP 24/10-2742
Article no.	722741	722742
<b>Technical Data</b>		
Input voltage	AC 120/230 V	AC 120/230 V
Voltage range	AC 93 – 132 V/187 – 500 V	AC 93 – 132 V/187 – 500 V
Rated power	140 W	280 W
Nominal Frequency	50/60 Hz	50/60 Hz
Frequenzbereich	47 Hz – 63 Hz	47 Hz – 63 Hz
Power interruption sustain time	> 20 ms at full load and 93/187 V	> 10 ms at full load
Rated current (at $U_N$ )	2.2 A / 1.2 A	4.4 A / 2.4 A
Connections on primary side	Screw terminals/2.5 mm <sup>2</sup>	Screw terminals/2.5 mm <sup>2</sup>
Rated voltage output	DC 24 V	DC 24 V
Output voltage tolerance	± 1%	± 1%
Output voltage, setting range	DC 22,8 – 28,8 V	DC 22,8 – 28,8 V
Rated output-current	5 A	10 A
Current limitation	1.1 – 1.3 × rated current	1.1 – 1.3 × rated current
Ripple	< 150 mVss	< 150 mVss
Efficiency	86%	86%
Short-circuit protection	switches off in the event of a short circuit Constant current (selector switch B, see 'Function switch')	switches off in the event of a short circuit Constant current (selector switch B, see 'Function switch')
Parallel connection option	Yes, 2 units, adapt to the output characteristic curve using switch A (see 'Function switch')	Yes, 2 units, adapt to the output characteristic curve using switch A (see 'Function switch')
Status Indication	Green LED output > 20.5 V, Yellow LED: overload, output > 20.5 V; Red LED: retransmitting shut-down (only in the 'Shut-down' mode)	Green LED output > 20.5 V, Yellow LED: overload, output > 20.5 V; Red LED: retransmitting shut-down (only in the 'Shut-down' mode)
Connections on secondary side	Screw terminals/2.5 mm <sup>2</sup>	Screw terminals/2.5 mm <sup>2</sup>
<b>General Data</b>		
Degree of interference suppression (EN 55022)	Limit value curve B; interference immunity compliant with EN 61000-6-2	Limit value curve B; interference immunity compliant with EN 61000-6-2
Type of protection	IP20	IP20
Protection class	1	1
Operating temperature range	0 °C – 60 °C	0 °C – 60 °C
Dimensions (W × H × D)	70 mm × 125 mm × 120,5 mm	90 mm × 125 mm × 120,5 mm
Weight	1,2 kg/pcs	1,4 kg/pcs
Mount position/mode	Can be snapped onto top hat profile TS35 (EN 50022)	Can be snapped onto top hat profile TS35 (EN 50022)
Standards	Limitation of input current harmonic waves compliant with EN 61000-3-2; SELV compliant with 60950 Safe isolation: EN 50178	Limitation of input current harmonic waves compliant with EN 61000-3-2; SELV compliant with 60950 Safe isolation: EN 50178
CE conformity	yes	yes
Approvals	UL, CSA pending	UL, CSA pending

**three-phase, primary-switched, compact and light, short-circuit-protected, large input voltage range, adjustable output voltage**



Type	NGP 24/40 2746	NGP 24/40 2748
Article no.	722746	722748
<b>Technical Data</b>		
Input voltage	AC 3 × 400/500 V	AC 3 × 400/500 V
Voltage range	AC 360 – 550 V	AC 360 – 550 V
Rated power	540 W	1060 W
Nominal Frequency	50/60 Hz	50/60 Hz
Frequenzbereich	47 Hz – 63 Hz	48 Hz – 64 Hz
Power interruption sustain time	> 6 ms at 400 V	> 6 ms at 400 V
Rated current (at $U_N$ )	1.1 A	2.2 A
Connections on primary side	Screw terminals/2.5 mm <sup>2</sup>	Screw terminals/2.5 mm <sup>2</sup>
Rated voltage output	DC 24 V	DC 24 V
Output voltage tolerance	± 2%	± 2%
Output voltage, setting range	DC 24 – 28.8 V	DC 24 – 28.8 V
Rated output-current	20 A	40 A
Current limitation	static, typically 1.15 × I	static, typically 1.15 × I
Ripple	< 150 mVss, switching peaks: < 200 mVss	< 150 mVss, switching peaks: < 200 mVss
Efficiency	90%	90%
Short-circuit protection	switches off in the event of a short circuit Constant current (selector switch B, see 'Function switch')	switches off in the event of a short circuit Constant current (selector switch B, see 'Function switch') Boost: 100 A for 25 ms
Parallel connection option	Yes, 2 units, adapt to the output characteristic curve using switch A (see 'Function switch')	Yes, 2 units, adapt to the output characteristic curve using switch A (see 'Function switch')
Status Indication	Green LED output > 20.5 V, Yellow LED: overload, output > 20.5 V; Red LED: retransmitting shut-down	Green LED output > 20.5 V, Yellow LED: overload, output > 20.5 V; Red LED: retransmitting shut-down
Connections on secondary side	Screw terminals/10 mm <sup>2</sup>	Screw terminals/10 mm <sup>2</sup>
<b>General Data</b>		
Degree of interference suppression (EN 55022)	Limit value curve B compliant with EN 55022; interference immunity EN 50082-2 incl. Table A4	Limit value curve B compliant with EN 55022; interference immunity EN 50082-2 incl. Table A4
Type of protection	IP20	IP20
Protection class	I compliant with IEC 536	I compliant with IEC 536
Operating temperature range	0 °C – 60 °C	0 °C – 60 °C
Dimensions (W × H × D)	160 mm × 125 mm × 125 mm	160 mm × 125 mm × 125 mm
Weight	2 kg/pcs	3,6 kg/pcs
Mount position/mode	Vertical, input terminal and output terminal at bottom, can be snapped onto 35 mm top hat profile (EN 50022)	Vertical, input terminal and output terminal at bottom, can be snapped onto 35 mm top hat profile (EN 50022)
Standards	Limitation of input current harmonic waves compliant with EN 61000-3-2; SELV compliant with 60950 Safe isolation: EN 50178	Limitation of input current harmonic waves compliant with EN 61000-3-2; SELV compliant with 60950 Safe isolation: EN 50178
CE conformity	yes	yes
Approvals	UL, CSA	UL, CSA