

SUMMARY OF MODELS OF FUSE SWITCH-DISCONNECTORS



Type	3NP111..	3NP112..	3NP113..	3NP114..
Rated operating current I_n	125 A	160 A	160 A	250 A
Rated operating voltage U_n	AC 690 V	AC 690 V DC 440 V	AC 690 V DC 440 V	AC 690 V DC 440 V
Size	000	000	00	1
Fuse-link size	000	000	000/00	1
Utilization category at AC 400 V	AC-22B	AC-23B	AC-23B	AC-23B
Number of poles	3	1, 3, 4	1, 3, 4	1, 3, 4

Accessories				
Connecting sets		–	3NP192.-1BD00 3NP192.-1BE20	3NP193.-1B.. 3NP194.-1B..
Interconnecting busbars		–	3NP1923-1BF.0	–
Remote signalling of cover position		3NP1910-1FA00	3NP1920-1F.00	3NP1930-1F.00 3NP1940-1F.00
Adapters for busbar systems		–	3NP1921-1EE10	3NP1931-1EE10 –
Assembly kits		–	3NP1921-1EC00 3NP1924-1ED10	3NP1931-1EC00 3NP1934-1ED10 3NP1934-1ED20 3NP1941-1EC00 3NP1944-1ED00
Connecting space covers		3NP1913-1C..	3NP192.-1C..	3NP193.-1C.. 3NP194.-1C..
DIN rail connection		–	3NP192.-1EA00	3NP193.-1EB00 3NP1943-1EB00
Locking insert		–	3NP1900-1HA00	
Front shields		–	3NP1923-1DA00	3NP1933-1DA00 3NP1943-1DA00
Front shield support		3NP1913-1CF00	3NP1923-1CF00	3NP1933-1CF00 3NP1943-1CF00
Energy theft protection kit		3NP1900-1EF00		
Disconnecting link		–	3NP1924-1MA20	3NP1934-1MA20 3NP1944-1MA20
Replaceable covers		3NP1913-1GA00	3NP192.-1G..	3NP193.-1G.. – 3NP194.-1G..

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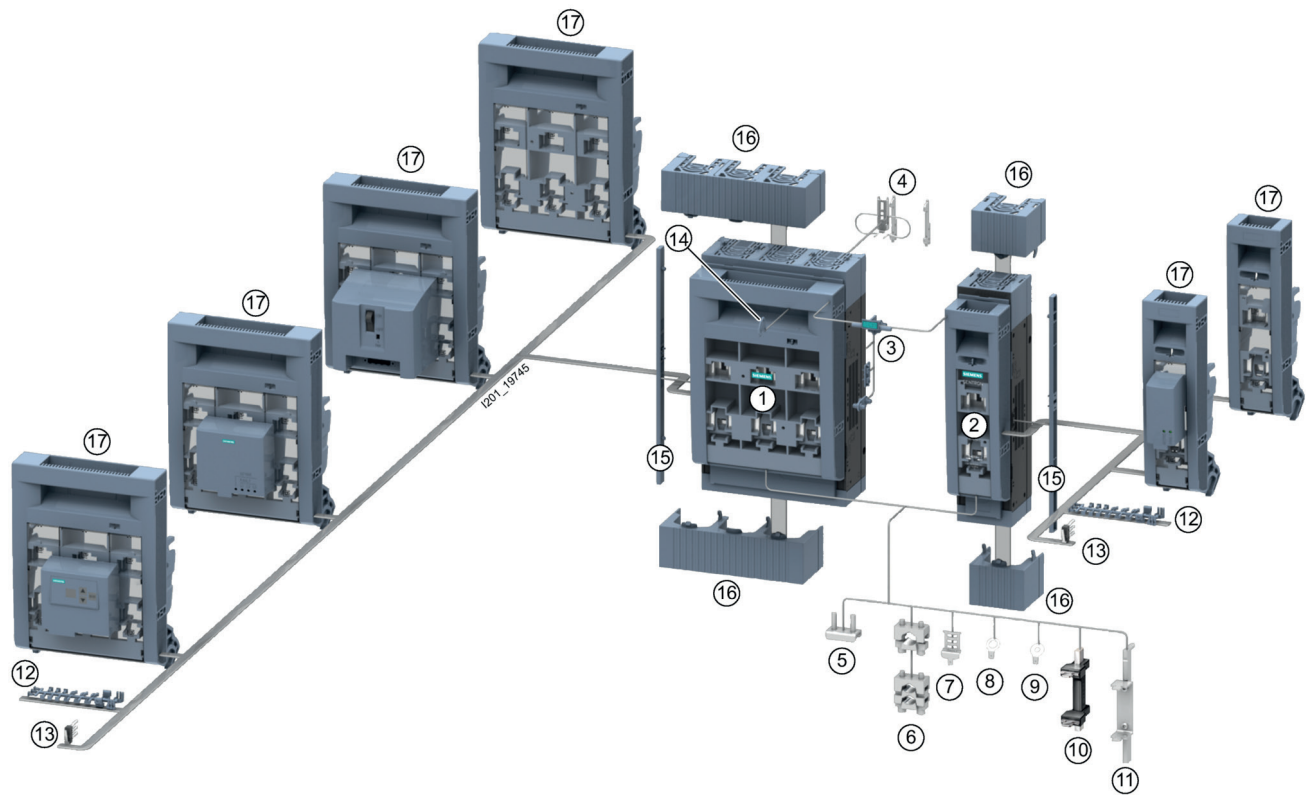
Type	3NP115..	3NP116..	LTL4a
Rated operating current I_n	400 A	630 A	1 600 A
Rated operating voltage U_n	AC 690 V DC 440 V	AC 690 V DC 440 V	AC 690 V DC 690 V
Size	2	3	4a
Fuse-link size	2	3	4a
Utilization category at AC 400 V	AC-23B	AC-23B	AC-22B
Number of poles	1, 3, 4	1, 3, 4	1, 3

Accessories				
Connecting sets		3NP195.-1B.. 3NP1943-1BG10	3NP196.-1B., 3NP1943-1BG10, 3NP1953-1BG30	—
Interconnecting busbars		—	—	—
Remote signalling of cover position			3NP1940-1F..	EMV-LTL4a
Adapters for busbar systems		—	—	—
Assembly kits			3NP1941-1EC00 3NP1954-1ED00	—
Connecting space covers		3NP195.-1C..	3NP196.-1C..	—
DIN rail connection		—	—	—
Locking insert			3NP1900-1HA00	—
Front shields		3NP1953-1DA00	3NP1963-1DA00	—
Front shield support			3NP1943-1CF00	—
Energy theft protection kit			3NP1900-1EF00	—
Disconnecting link		3NP1954-1MA20	3NP1964-1MA20	—
Replaceable covers		3NP195.-1G..	3NP196.-1G..	—

FUSE SWITCH-DISCONNECTORS 3NP1, SIZE 1, 2, 3

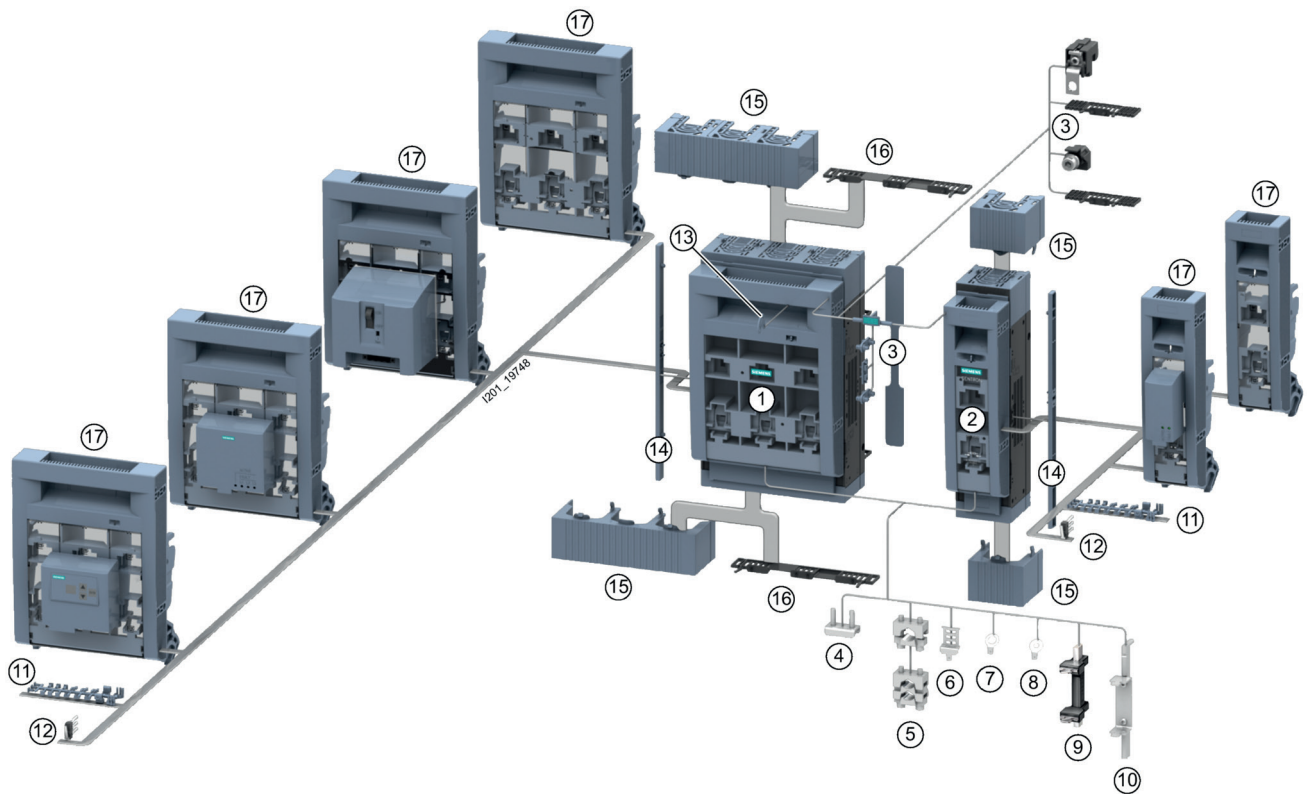
Overview

3NP1 for mounting on a mounting plate, size 1, 2, 3



- ① Fuse switch-disconnector 3NP1, 3-pole, mounting on a mounting plate
- ② Fuse switch-disconnector 3NP1, 1-pole, mounting on a mounting plate
- ③ Assembly kit for assembling 2- or 4-pole fuse switch-disconnector
- ④ Mounting kit for DIN rail connection
- ⑤ Clip terminals
- ⑥ Prismatic clamps
- ⑦ Auxiliary conductor terminals for clamp terminals
- ⑧ Auxiliary conductor terminals for terminal screws
- ⑨ Auxiliary conductor terminals for clip terminals and prismatic clamps
- ⑩ Disconnecting link, standard design
- ⑪ Disconnecting link, leading switch-on, lagging switch-off
- ⑫ Energy theft protection kit
- ⑬ Signalling of cover position
- ⑭ Locking insert
- ⑮ Front shield support
- ⑯ Connecting space covers
- ⑰ Signalling of fuse-links state

3NP1 for mounting on busbar systems 60 mm, size 1, 2, 3



- | | |
|--|---|
| <ul style="list-style-type: none"> ① Fuse switch-disconnector 3NP1, 3-pole, for mounting on busbar systems 60 mm ② Fuse switch-disconnector 3NP1, 1-pole, mounting on a mounting plate ③ Assembly kit for assembling 2- or 4-pole fuse switch-disconnector ④ Clip terminals ⑤ Prismatic clamps ⑥ Auxiliary conductor terminals for clamp terminals ⑦ Auxiliary conductor terminals for terminal screws ⑧ Auxiliary conductor terminals for clip terminals and prismatic clamps ⑨ Disconnecting link, standard design ⑩ Disconnecting link, leading switch-on, lagging switch-off | <ul style="list-style-type: none"> ⑪ Energy theft protection kit ⑫ Signalling of cover position ⑬ Locking insert ⑭ Front shield support ⑮ Connecting space covers ⑯ Connecting space cover with increased protection against accidental contact of connecting busbars ⑰ Signalling of fuse-links state |
|--|---|



- Fuse switch-disconnectors are intended for fuse-links with blade contacts size 1, 2 and 3.
- They enable safe disconnection not only rated current, but and overcurrent up to octuple rated current.
- Measuring holes in the cover.
- Possibility of locking and cover sealing of switch-disconnector.
- Mounting:
 - on mounting plate by means of screws
 - on busbar systems of industrial LV switchboards with busbar spacing 60 mm (thickness 5 or 10 mm)
 - on DIN rail by means of accessory (size 1).
- Version with clamp terminals and terminal screws.
- Version with signalling of fuse-links state:
 - with electromechanical AC/DC signalling MFM
 - with electronic AC signalling EFM10
 - with electronic AC/DC signalling EFM15
 - with electronic AC signalling EFM20
 - with electronic DC signalling EFM25
- The supply connection from below is possible without limiting the electrical parameters (the device should be marked "ATTENTION, BOTTOM CONNECTION").

Fuse switch-disconnectors without signalling, terminal screws

I_e [A]	Number of poles	Order code	Mounting	Weight [kg]	Package [pcs]
250	1	3NP1141-1DA10	on mounting plate / DIN rail	1.328	1
	3	3NP1143-1DA10	on mounting plate / DIN rail	2.760	1
		3NP1143-1BC10	for busbar systems 60 mm	3.260	1
	4	3NP1144-1DA10	on mounting plate / DIN rail	4.222	1
3NP1144-1BC10		for busbar systems 60 mm	4.812	1	
400	1	3NP1151-1DA10	on mounting plate	1.793	1
	3	3NP1153-1DA10	on mounting plate	3.700	1
		3NP1153-1BC10	for busbar systems 60 mm	4.380	1
	4	3NP1154-1DA10	on mounting plate	5.466	1
3NP1154-1BC10		for busbar systems 60 mm	6.282	1	
630	1	3NP1161-1DA10	on mounting plate	1.965	1
	3	3NP1163-1DA10	on mounting plate	4.544	1
		3NP1163-1BC10	for busbar systems 60 mm	5.299	1
	4	3NP1164-1DA10	on mounting plate	6.600	1
		3NP1164-1BC10	for busbar systems 60 mm	7.320	1

Fuse switch-disconnectors without signalling, clamp terminals

I_e [A]	Number of poles	Order code	Mounting	Weight [kg]	Package [pcs]
250	1	3NP1141-1DA20	on mounting plate / DIN rail	1.372	1
	3	3NP1143-1DA20	on mounting plate / DIN rail	2.999	1
		3NP1143-1BC20	for busbar systems 60 mm	3.312	1
	4	3NP1144-1DA20	on mounting plate / DIN rail	4.434	1
3NP1144-1BC20		for busbar systems 60 mm	4.941	1	
400	1	3NP1151-1DA20	on mounting plate	2.010	1
	3	3NP1153-1DA20	on mounting plate	4.401	1
		3NP1153-1BC20	for busbar systems 60 mm	4.739	1
	4	3NP1154-1DA20	on mounting plate	6.473	1
3NP1154-1BC20		for busbar systems 60 mm	6.831	1	
630	1	3NP1161-1DA20	on mounting plate	2.226	1
	3	3NP1163-1DA20	on mounting plate	5.150	1
		3NP1163-1BC20	for busbar systems 60 mm	5.438	1
	4	3NP1164-1DA20	on mounting plate	7.388	1
3NP1164-1BC20		for busbar systems 60 mm	7.845	1	

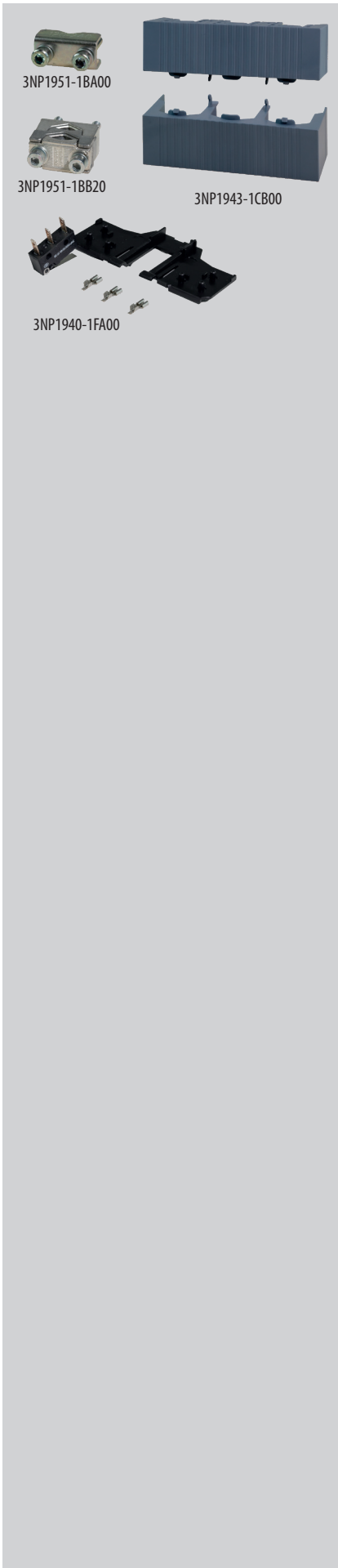


Fuse switch-disconnectors with signalling, terminal screws

I _e [A]	Number of poles	Order code	Mounting	Weight [kg]	Package [pcs]
250	1	3NP1141-1DA14	on mounting plate / DIN rail, signalling EFM15	1.392	1
		3NP1143-1DA11	on mounting plate / DIN rail, signalling MFM	3.420	1
	3	3NP1143-1BC11	for busbar systems 60 mm, signalling MFM	3.927	1
		3NP1143-1DA12	on mounting plate / DIN rail, signalling EFM10	3.107	1
		3NP1143-1BC12	for busbar systems 60 mm, signalling EFM10	3.560	1
		3NP1143-1DA13	on mounting plate / DIN rail, signalling EFM20	3.147	1
		3NP1143-1BC13	for busbar systems 60 mm, signalling EFM20	3.604	1
		3NP1143-1DA14	on mounting plate / DIN rail, signalling EFM15	3.085	1
400	1	3NP1151-1DA14	on mounting plate, signalling EFM15	1.863	1
		3NP1153-1DA11	on mounting plate, signalling MFM	4.478	1
	3	3NP1153-1BC11	for busbar systems 60 mm, signalling MFM	5.061	1
		3NP1153-1DA12	on mounting plate, signalling EFM10	3.967	1
		3NP1153-1BC12	for busbar systems 60 mm, signalling EFM10	4.567	1
		3NP1153-1DA13	on mounting plate, signalling EFM20	4.044	1
		3NP1153-1BC13	for busbar systems 60 mm, signalling EFM20	4.732	1
		3NP1153-1DA14	on mounting plate, signalling EFM15	3.986	1
		3NP1153-1BC14	for busbar systems 60 mm, signalling EFM15	4.548	1
		630	1	3NP1161-1DA14	on mounting plate, signalling EFM15
3NP1163-1DA11	on mounting plate, signalling MFM			5.326	1
3	3NP1163-1BC11		for busbar systems 60 mm, signalling MFM	5.868	1
	3NP1163-1DA12		on mounting plate, signalling EFM10	4.858	1
	3NP1163-1BC12		for busbar systems 60 mm, signalling EFM10	5.475	1
	3NP1163-1DA13		on mounting plate, signalling EFM20	4.984	1
	3NP1163-1BC13		for busbar systems 60 mm, signalling EFM20	5.620	1
	3NP1163-1DA14		on mounting plate, signalling EFM15	4.915	1
3NP1163-1BC14	for busbar systems 60 mm, signalling EFM15	5.468	1		

Fuse switch-disconnectors with signalling, clamp terminals

I _e [A]	Number of poles	Order code	Mounting	Weight [kg]	Package [pcs]
250	1	3NP1141-1DA24	on mounting plate / DIN rail, signalling EFM15	1.434	1
		3NP1143-1DA21	on mounting plate / DIN rail, signalling MFM	3.693	1
	3	3NP1143-1BC21	for busbar systems 60 mm, signalling MFM	3.979	1
		3NP1143-1DA22	on mounting plate / DIN rail, signalling EFM10	3.463	1
		3NP1143-1BC22	for busbar systems 60 mm, signalling EFM10	3.815	1
		3NP1143-1DA23	on mounting plate / DIN rail, signalling EFM20	3.344	1
		3NP1143-1BC23	for busbar systems 60 mm, signalling EFM20	3.711	1
		3NP1143-1DA24	on mounting plate / DIN rail, signalling EFM15	3.236	1
400	1	3NP1151-1DA24	on mounting plate, signalling EFM15	2.016	1
		3NP1153-1DA21	on mounting plate, signalling MFM	5.107	1
	3	3NP1153-1BC21	for busbar systems 60 mm, signalling MFM	5.343	1
		3NP1153-1DA22	on mounting plate, signalling EFM10	4.824	1
		3NP1153-1BC22	for busbar systems 60 mm, signalling EFM10	4.966	1
		3NP1153-1DA23	on mounting plate, signalling EFM20	4.822	1
		3NP1153-1BC23	for busbar systems 60 mm, signalling EFM20	5.069	1
		3NP1153-1DA24	on mounting plate, signalling EFM15	4.730	1
		3NP1153-1BC24	for busbar systems 60 mm, signalling EFM15	4.923	1
		630	1	3NP1161-1DA24	on mounting plate, signalling EFM15
3NP1163-1DA21	on mounting plate, signalling MFM			5.796	1
3	3NP1163-1BC21		for busbar systems 60 mm, signalling MFM	6.229	1
	3NP1163-1DA22		on mounting plate, signalling EFM10	5.583	1
	3NP1163-1BC22		for busbar systems 60 mm, signalling EFM10	5.803	1
	3NP1163-1DA23		on mounting plate, signalling EFM20	5.552	1
	3NP1163-1BC23		for busbar systems 60 mm, signalling EFM20	5.920	1
	3NP1163-1DA24		on mounting plate, signalling EFM15	5.545	1
3NP1163-1BC24	for busbar systems 60 mm, signalling EFM15	5.782	1		



Accessories

Connecting sets	3NP194.-1B, 3NP195.-1B., 3NP196.-1B..	page C47
Remote signalling of cover position	3NP1940-1F.00	page C48
Assembly kits	3NP1941-1EC00, 3NP1944-1ED00, 3NP1954-1ED00	page C48
Connecting space covers	3NP194.-1C., 3NP195.-1C., 3NP196.-1C..	page C48
DIN rail mounting	3NP1943-1EB00	page C49
Front shield	3NP19.3-1DA00	page C49
Locking insert	3NP1900-1HA00	page C48
Energy theft protection kit	3NP1900-1EF00	page C49
Disconnecting links	ZP., 3NP19.4-1MA20	page C49
Replaceable covers	3NP194.-1G., 3NP195.-1G., 3NP16.-1GF..	page C50

C

Specifications

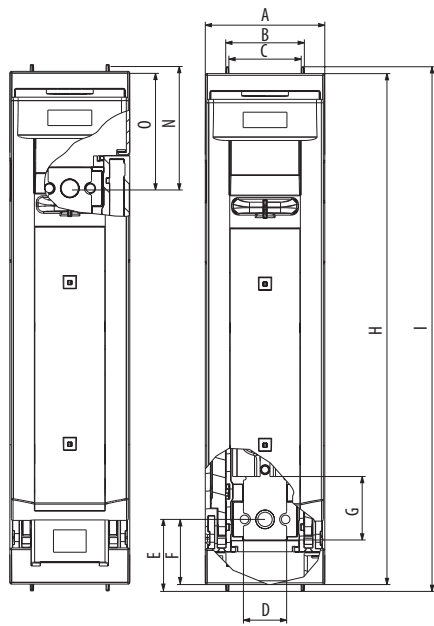
Type		3NP114..	3NP115..	3NP116..		
Standards		IEC 60947-1 IEC 60947-3	IEC 60947-1 IEC 60947-3	IEC 60947-1 IEC 60947-3		
Approval marks		CE EAC	CE EAC	CE EAC		
Rated operating current	I_n	250 A	400	630		
Rated operating voltage	U_e	AC	690 V	690 V		
		DC - 3-pole connection	440 V	440 V		
		DC - 2-pole connection	240 V	240 V		
Utilization category ¹⁾	1-pole	AC 400 V	AC-23B	250 A	400 A	630 A
		AC 500 V	AC-22B	250 A	400 A	630 A
		AC 690 V	AC-21B	250 A	315 A	500 A
		DC 250 V	DC-21B	250 A	400 A	630 A
			DC-22B	200 A	250 A	400 A
		DC 440 V	DC-21B	125 A	160 A	315 A
	2-pole	AC 500 V	AC-22B	250 A	400 A	630 A
		AC 690 V	AC-21B	250 A	400 A	630 A
		DC 250 V	DC-23B	160 A	250 A	400 A
			DC-22B	250 A	400 A	630 A
	3-pole	DC 440 V	DC-22B	160 A	315 A	500 A
			DC-21B	250 A	400 A	360 A
		AC 400 V	AC-23B	250 A	400 A	630 A
			AC-22B	250 A	400 A	630 A
		AC 500 V	AC-21B	250 A	400 A	630 A
			AC-22B	250 A	400 A	630 A
		AC 690 V	AC-23B	100 A	125 A	200 A
			AC-22B	250 A	400 A	500 A
		AC 1 000 V	AC-21B	250 A	400 A	630 A
			AC-20B	250 A	400 A	630 A
	DC 250 V	DC-23B	DC-23B	200 A	250 A	400 A
DC-22B			250 A	400 A	630 A	
DC-21B		DC-21B	250 A	400 A	630 A	
		DC-20B	250 A	400 A	630 A	
DC 440 V	DC-23B	100 A	160 A	250 A		
	DC-22B	200 A	315 A	500 A		
DC 1 000 V	DC-21B	250 A	400 A	630 A		
	DC-20B	250 A	400 A	630 A		
Rated thermal current with fuse-link	I_{th}	250 A	400 A	630 A		
Rated frequency	f_n	50 ÷ 60 Hz	50 ÷ 60 Hz	50 ÷ 60 Hz		
Rated insulation voltage	U_i	AC 1 000 V	AC 1 000 V	AC 1 000 V		
Rated conditional short-circuit current (RMS)	I_{cc}	AC 400 V	120 kA	120 kA	120 kA	
		AC 500 V	120 kA	100 kA	100 kA	
		AC 690 V	100 kA	100 kA	100 kA	
Rated impulse withstand voltage	U_{imp}	8 kV				
Fuse-link size		1	2	3		
Max. power losses of the fuse-link	P_v	23 W	34 W	48 W		
Power losses at I_n without fuse-link	P_z	8 W	14 W	30 W		
Overvoltage category at AC 690 V						
Connection						
Connection cross-section	screw connection	16 ÷ 150 mm ²	25 ÷ 240 mm ²	120 ÷ 300 mm ²		
	clamp terminal	Cu / 70 ÷ 185 mm ²	Cu / 120 ÷ 300 mm ²	Cu / 120 ÷ 300 mm ²		
Torque	screw connection	10 ÷ 12 Nm	10 ÷ 12 Nm	25 Nm		
	clamp terminal	10 Nm	25 Nm	25 Nm		
Remote signalling						
Max. voltage/current	U_{max}/I_{max}	AC 250 V / 0.25 A ...FA00 AC 250 V / 0.10 A ...FB00	AC 250 V / 0.25 A ...FA00 AC 250 V / 0.10 A ...FB00	AC 250 V / 0.25 A ...FA00 AC 250 V / 0.10 A ...FB00		
Light indication						
Rated voltage	U_n	see page C4	see page C4	see page C4		
Operating conditions						
Electrical endurance	operating cycles	200 at 250 A	200 at 400 A	200 at 630 A		
Mechanical endurance	operating cycles	1 600	1 000	1 000		
Rated duty		uninterrupted	uninterrupted	uninterrupted		
Degree of protection from front side, built-in device, cover closed (without measuring holes broken off)		IP40	IP40	IP40		
Degree of protection from front side, built-in device, cover opened or removed		IP20	IP20	IP20		
Storage temperature		-50 ÷ +80 °C	-50 ÷ +80 °C	-50 ÷ +80 °C		
Operating ambient temperature		-25 ÷ +55 °C	-25 ÷ +55 °C	-25 ÷ +55 °C		
Working position		see page H3	see page H3	see page H3		
Max. sea level		2 000 m	2 000 m	2 000 m		
Pollution degree		3/2 ²⁾	3/2 ²⁾	3/2 ²⁾		

¹⁾ In case of use disconnecting links above rated operating current of switch-disconnector, utilization category is decreased by one degree

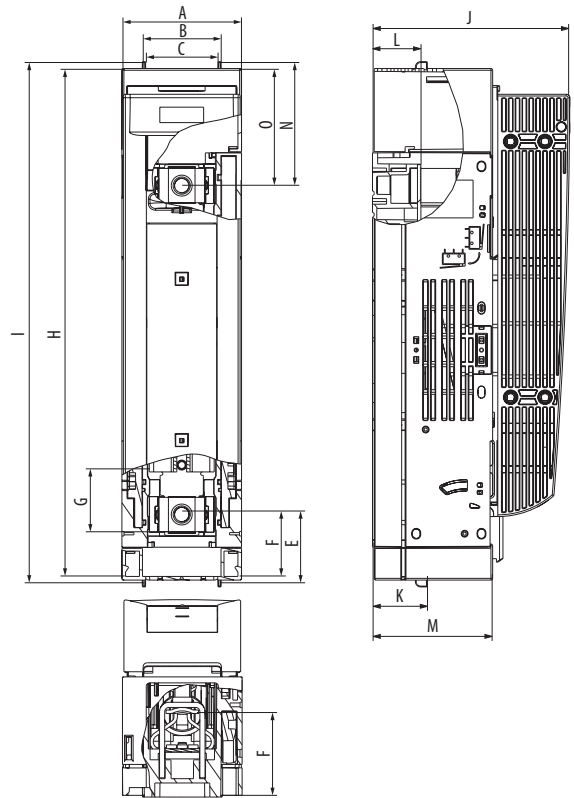
²⁾ With signalling of fuse-links state

Dimensions

3NP11.1-1DA10

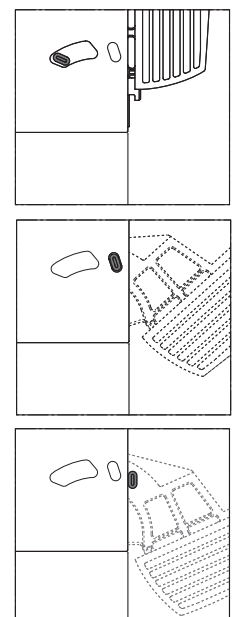
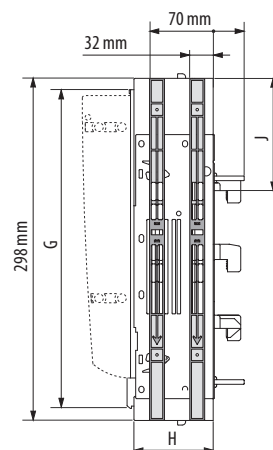
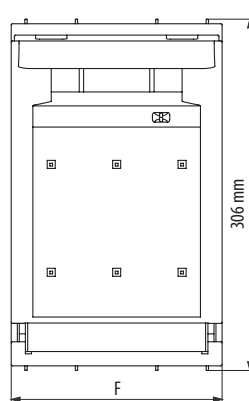
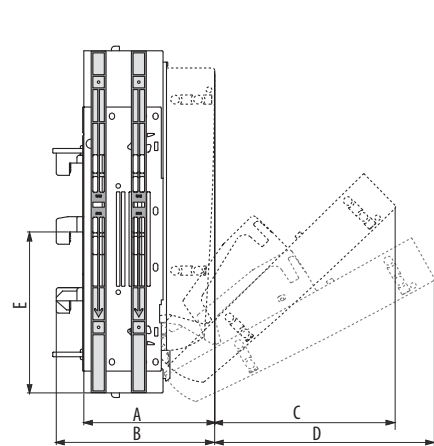


3NP11.1-1DA20



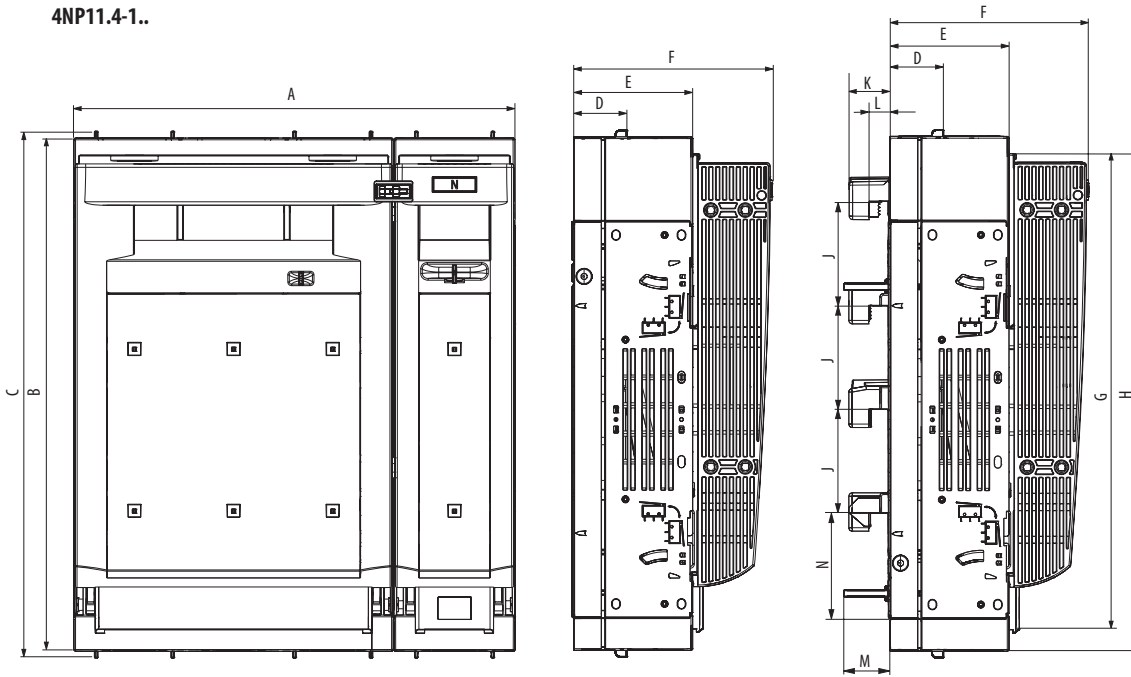
Type [mm]	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
3NP1141-1DA10	69.7	45.9	42.2	25.2	42	38	37	298	306	114	32	28.2	70	72	68	-
3NP1151-1DA10	79.4	60	56	32.2	29.5	25.5	42	298	306	130	32	30	70	59.5	55.5	-
3NP1161-1DA10	89.4	70	66	40	29.5	25.5	43.5	298	306	138.8	32	30	70	59.5	55.5	-
3NP1141-1DA20	69.7	45.9	42.2	25.2	42.2	38.2	37	298	306	114	32	28.2	70	72.2	68.2	48.7
3NP1151-1DA20	79.4	60	56	32.2	36	32	42	298	306	130	32	30	70	66	62	54.9
3NP1161-1DA20	89.4	70	66	40	36	32	43.5	298	306	138.8	32	30	70	66	62	54.5

3NP11.3-1..



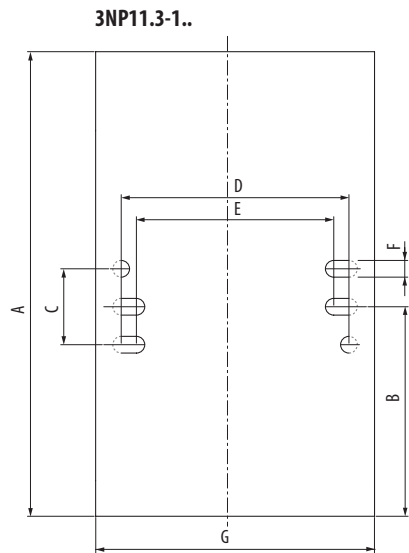
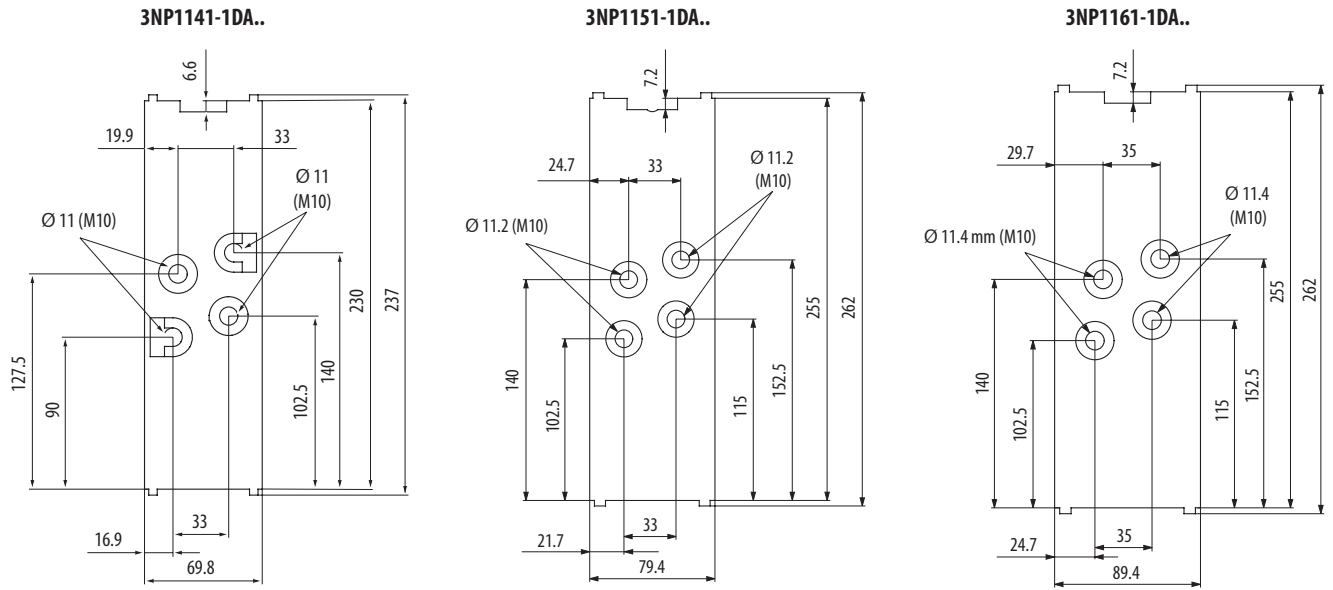
Type [mm]	A	B	C	D	E	F	G	H	I	J
3NP1143-1DA.0	115	-	186	186	-	183.7	275.6	-	-	-
3NP1153-1DA.0	129.9	-	207	207	-	209.4	280	90	-	-
3NP1163-1DA.0	138.5	-	207	207	-	249.4	280	90	-	-
3NP1143-1BC.0	115	138	180	186	144.2	183.7	275.6	-	26	97.8
3NP1153-1BC.0	129.9	153	200	207	144.2	209.4	280	90	26	97.8
3NP1163-1BC.0	138.5	131.5	200	207	144.2	249.4	280	90	26	97.8

4NP11.4-1..

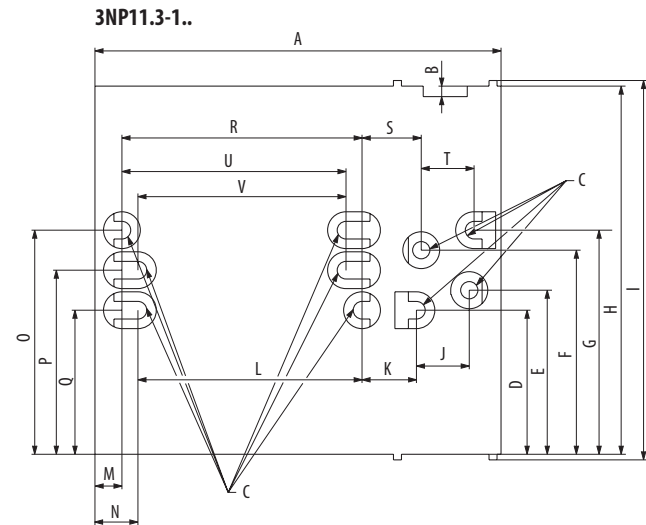


Type [mm]	A	B	C	D	E	F	G	H	J	K	L	M	N
3NP1144-1DA.0	253.7	298	306	32	70	114	275.6	288.1	-	-	-	-	-
3NP1154-1DA.0	288.8	298	306	32	70	130	280	289	-	-	-	-	-
3NP1164-1DA.0	338.8	298	306	32	70	138.8	280	289	-	-	-	-	-
3NP1144-1BC.0	253.7	298	306	32	70	114	275.6	288.1	60	22.8	5 ÷ 10	26	80
3NP1154-1BC.0	288.8	298	306	32	70	130	280	289	60	22.8	5 ÷ 10	26	80
3NP1164-1BC.0	338.8	298	306	32	70	138.8	280	289	60	22.8	5 ÷ 10	26	80

Drilling diagram



Type [mm]	A	B	C	D	E	F	G
3NP1143-1DA.0	306	138	50	155	130	11	183.7
3NP1153-1DA.0	306	138	50	166	130	11	209.4
3NP1163-1DA.0	306	138	50	195	160	11	294.4



Type [mm]	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
3NP1144-1	253.7	6.6	∅ 11	90	102.5	127.5	140	230	237	33	34	140	16.9	26.9	140	115	90	150	37	33	140	130
3NP1154-1..	288.8	7.2	∅ 11	102.5	115	140	152.5	225	262	33	43.4	148	21.7	39.7	152.5	127.5	102.5	166	46.4	33	148	130
3NP1164-1..	338.8	7.2	∅ 11	102.5	115	140	152.5	225	262	35	51.9	177.5	27.2	44.7	152.5	127.5	102.5	195	56.9	35	177.5	160

ACCESSORIES



3NP1951-1BA00



3NP1951-1BB10



3NP1951-1BB20



3NP1943-1BG10

Clip terminals up to 240 mm², for screw connection design

- Cross-section of Cu conductor 70 ÷ 240 mm².
- Torque 6 Nm for size 1, 8 Nm for size 2.
- Torque of 3NP1153-1..10, 8 Nm.

Order code	Description	Cross-section of conductor	Weight [kg]	Package [pcs]
3NP1941-1BA00	size 1, 1 pcs	Cu 70 ÷ 150 mm ²	0.041	1
3NP1943-1BA00	size 1, 3 pcs	Cu 70 ÷ 150 mm ²	0.130	1
3NP1951-1BA00	size 2, 1 pcs	Cu 120 ÷ 240 mm ²	0.123	1
3NP1953-1BA00	size 2, 3 pcs	Cu 120 ÷ 240 mm ²	0.374	1

Prismatic clamps up to 300 mm², for screw connection design

- Cross-section of Cu/Al conductor 70 ÷ 300 mm².
- Torque 6 Nm for size 1, 8 Nm for size 2 and 3.

Order code	Description	Cross-section of conductor	Weight [kg]	Package [pcs]
3NP1941-1BB10	size 1, 1 pcs	Cu 70 ÷ 150 mm ²	0.107	1
3NP1943-1BB10	size 1, 3 pcs	Cu 70 ÷ 150 mm ²	0.309	1
3NP1951-1BB10	size 2, 1 pcs	Cu 120 ÷ 240 mm ²	0.172	1
3NP1953-1BB10	size 2, 3 pcs	Cu 120 ÷ 240 mm ²	0.509	1
3NP1961-1BB10	size 3, 1 pcs	Cu 150 ÷ 300 mm ²	0.225	1
3NP1963-1BB10	size 3, 3 pcs	Cu 150 ÷ 300 mm ²	0.798	1

Double prismatic clamps up to 185 mm², for screw connection design

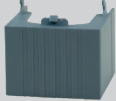
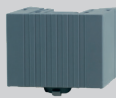
- Cross-section of Cu/Al conductor 2x 35 ÷ 185 mm².
- Torque 6 Nm for size 1, 8 Nm for size 2 and 3.

Order code	Description	Cross-section of conductor	Weight [kg]	Package [pcs]
3NP1941-1BB20	size 1, 1 pcs	Cu 2x 35 ÷ 70 mm ²	0.158	1
3NP1943-1BB20	size 1, 3 pcs	Cu 2x 35 ÷ 70 mm ²	0.470	1
3NP1951-1BB20	size 2, 1 pcs	Cu 2x 70 ÷ 120 mm ²	0.251	1
3NP1953-1BB20	size 2, 3 pcs	Cu 2x 70 ÷ 120 mm ²	0.738	1
3NP1961-1BB20	size 3, 1 pcs	Cu 2x 150 ÷ 185 mm ²	0.355	1
3NP1963-1BB20	size 3, 3 pcs	Cu 2x 150 ÷ 185 mm ²	1.173	1

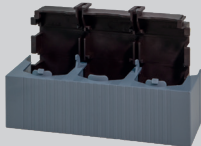
Auxiliary conductor terminals

- For connection of conductor with cross-section 0.25 ÷ 1 mm², max. load 5 A.

Order code	Description	Weight [kg]	Package [pcs]
3NP1943-1BG10	for screw connection design, size 1, 2, 3, set of 3 pcs	0.006	1
3NP1943-1BG30	for clip terminals and prismatic clamps, size 1, set of 3 pcs	0.008	1
3NP1943-1BG40	for clamp terminals, size 1, set of 3 pcs	0.015	1
3NP1953-1BG30	for clip terminals and prismatic clamps, size 2, 3, set of 3 pcs	0.006	1
3NP1953-1BG40	for clamp terminals, size 2, 3, set of 3 pcs	0.034	1



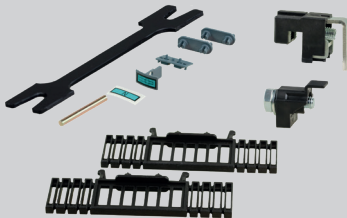
3NP1941-1CB00



3NP1943-1CD00



3NP1953-1CA10



3NP1954-1ED00



3NP1900-1HA00



3NP1940-1FA00

Connecting space covers

- For additional covering of connecting space.
- Upper and lower cover.

Order code	Description	Size	Weight [kg]	Package [pcs]
3NP1941-1CB00	for 1-pole design, mounting on a mounting plate	1	0.100	1
3NP1943-1CB00	for 3-pole design, mounting on a mounting plate	1	0.182	1
3NP1941-1CD00	for 1-pole design, increased protection from the back of the device, mounting on a mounting plate	1	0.154	1
3NP1943-1CD00	for 3-pole design, increased protection from the back of the device, mounting on a mounting plate	1	0.365	1
3NP1941-1CA10	for 1-pole design, increased protection of connection space of busbar systems	1	0.015	1
3NP1943-1CA10	for 3-pole design, increased protection of connection space of busbar systems	1	0.033	1
3NP1953-1CA10	for 3-pole design, increased protection of connection space of busbar systems	2	0.038	1
3NP1951-1CB00	for 1-pole design, mounting on a mounting plate	2	0.126	1
3NP1953-1CB00	for 3-pole design, mounting on a mounting plate	2	0.247	1
3NP1951-1CD00	for 1-pole design, increased protection from the back of the device, mounting on a mounting plate	2	0.196	1
3NP1953-1CD00	for 3-pole design, increased protection from the back of the device, mounting on a mounting plate	2	0.486	1
3NP1963-1CA10	for 3-pole design, increased protection of connection space of busbar systems	3	0.041	1
3NP1961-1CB00	for 1-pole design, mounting on a mounting plate	3	0.132	1
3NP1963-1CB00	for 3-pole design, mounting on a mounting plate	3	0.270	1
3NP1961-1CD00	for 1-pole design, increased protection from the back of the device, mounting on a mounting plate	3	0.210	1
3NP1963-1CD00	for 3-pole design, increased protection from the back of the device, mounting on a mounting plate	3	0.549	1

Assembly kits

- For assembling 2-pole or 4-pole.
- 2-pole device is assembled by means of 2 pcs 3NP1141.., 3NP1151.. or 3NP11631..
- 4-pole is assembled by means of 1 pcs 1-pole and 1 pcs 3-pole device.
- N-busbar placed above the 3-phase busbar system.

Order code	Description	Size	Weight [kg]	Package [pcs]
3NP1941-1EC00	for mounting on a mounting plate	1, 2, 3	0.035	1
3NP1944-1ED00	for busbar systems	1	0.251	1
3NP1954-1ED00	for busbar systems	2, 3	0.188	1

Locking insert

- For locking the switch-disconnector cover.
- Max. diameter of the padlock suspension loop is 6 mm.
- The padlock is not scope of supply.

Order code	Description	Weight [kg]	Package [pcs]
3NP1900-1HA00	for 3-pole design	0.024	1

Remote signalling of cover position

- Possibility of mounting 2 microswitches per one switch-disconnector.
- Changeover contacts.

Order code	Description	Weight [kg]	Package [pcs]
3NP1940-1FA00	changeover contact	0.021	1
3NP1940-1FB00	electronic compatible changeover contact	0.020	1



DIN rail mounting

- Possibility of fuse switch-disconnector mounting on DIN rail.

Order code	Description	Size	Weight [kg]	Package [pcs]
3NP1943-1EB00	for 1-, 2-, 3- and 4-pole devices	1	0.069	1

Front shield and front shield support

- Additional covering of free space around the 3-pole fuse switch-disconnector.

Order code	Description	Size	Weight [kg]	Package [pcs]
3NP1943-1DA00	front shield	1	0.112	1
3NP1953-1DA00	front shield	2	0.124	1
3NP1963-1DA00	front shield	3	0.143	1
3NP1943-1CF00	front shield support, set of 2 pcs	1, 2, 3	0.044	1

Energy theft protection kit

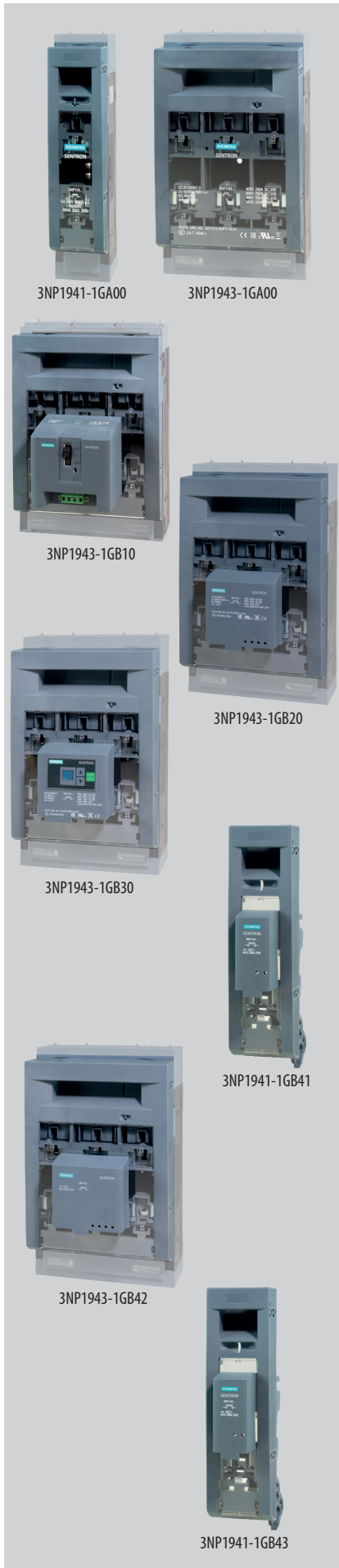
- It prevents electrical energy theft through the fuse switch-disconnector cover when the fuse switch-disconnector is locked or sealed.

Order code	Description	Size	Weight [kg]	Package [pcs]
3NP1900-1EF00	5 pcs in a package	1, 2, 3	0.067	1

Disconnecting links

- They are used for the disconnecting function, not as protection or as N-conductor of a 4-pole devices.
- Standard design or with function leading switch-on, lagging switch-off, if required by the 3+N network.

Order code	Description	Size	Weight [kg]	Package [pcs]
ZP1	standard design	1	0.170	1
ZP2	standard design	2	0.230	1
ZP3	standard design	3	0.290	1
3NP1944-1MA20	leading switch-on, lagging switch-off	1	0.202	1
3NP1954-1MA20	leading switch-on, lagging switch-off	2	0.248	1
3NP1964-1MA20	leading switch-on, lagging switch-off	3	0.292	1



3NP1941-1GA00

3NP1943-1GA00

3NP1943-1GB10

3NP1943-1GB20

3NP1943-1GB30

3NP1941-1GB41

3NP1943-1GB42

3NP1941-1GB43

Replaceable covers

- Without signalling of fuse-link state.

Order code	Description	Size	Weight [kg]	Package [pcs]
3NP1941-1GA00	1-pole	1	0.562	1
3NP1943-1GA00	3-pole	1	0.756	1
3NP1951-1GA00	1-pole	2	0.644	1
3NP1953-1GA00	3-pole	2	0.827	1
3NP1961-1GA00	1-pole	3	0.694	1
3NP1963-1GA00	3-pole	3	1.001	1

- With signalling of fuse-link state, electromechanical signalling MFM, AC 24 ÷ 690 V (L-L) // DC 24 ÷ 240 V (L+ - L-).

Order code	Description	Size	Weight [kg]	Package [pcs]
3NP1943-1GB10	3-pole	1	1.375	1
3NP1953-1GB10	3-pole	2	1.381	1
3NP1963-1GB10	3-pole	3	1.529	1

- With signalling of fuse-link state, electronic signalling EFM10, AC 230 ÷ 690 V (L-L).

Order code	Description	Size	Weight [kg]	Package [pcs]
3NP1943-1GB20	3-pole	1	1.032	1
3NP1953-1GB20	3-pole	2	1.080	1
3NP1963-1GB20	3-pole	3	1.232	1

- With signalling of fuse-link state, electronic signalling EFM20, AC 230 ÷ 690 V (L-L).

Order code	Description	Size	Weight [kg]	Package [pcs]
3NP1943-1GB30	3-pole	1	1.022	1
3NP1953-1GB30	3-pole	2	1.107	1
3NP1963-1GB30	3-pole	3	1.265	1

- With signalling of fuse-link state, electronic signalling EFM15, AC 110 ÷ 690 V (L-N).

Order code	Description	Size	Weight [kg]	Package [pcs]
3NP1941-1GB41	1-pole	1	0.619	1
3NP1951-1GB41	1-pole	2	0.704	1
3NP1961-1GB41	1-pole	3	0.760	1

- With signalling of fuse-link state, electronic signalling EFM15, AC 190 ÷ 690 V (L-L).

Order code	Description	Size	Weight [kg]	Package [pcs]
3NP1943-1GB42	3-pole	1	0.953	1
3NP1953-1GB42	3-pole	2	1.018	1
3NP1963-1GB42	3-pole	3	1.186	1

- With signalling of fuse-link state, electronic signalling EFM15, AC 24 ÷ 690 (L-N) / DC 24 ÷ 250 V (L+ - L-).

Order code	Description	Size	Weight [kg]	Package [pcs]
3NP1941-1GB43	1-pole	1	0.621	1
3NP1951-1GB43	1-pole	2	0.706	1
3NP1961-1GB43	1-pole	3	0.763	1



- With signalling of fuse-link state, electronic signalling EFM15, DC 120 ÷ 440 V (L+ - L-).

Order code	Description	Size	Weight [kg]	Package [pcs]
3NP1941-1GB44	1-pole	1	0.618	1
3NP1951-1GB44	1-pole	2	0.703	1
3NP1961-1GB44	1-pole	3	0.758	1

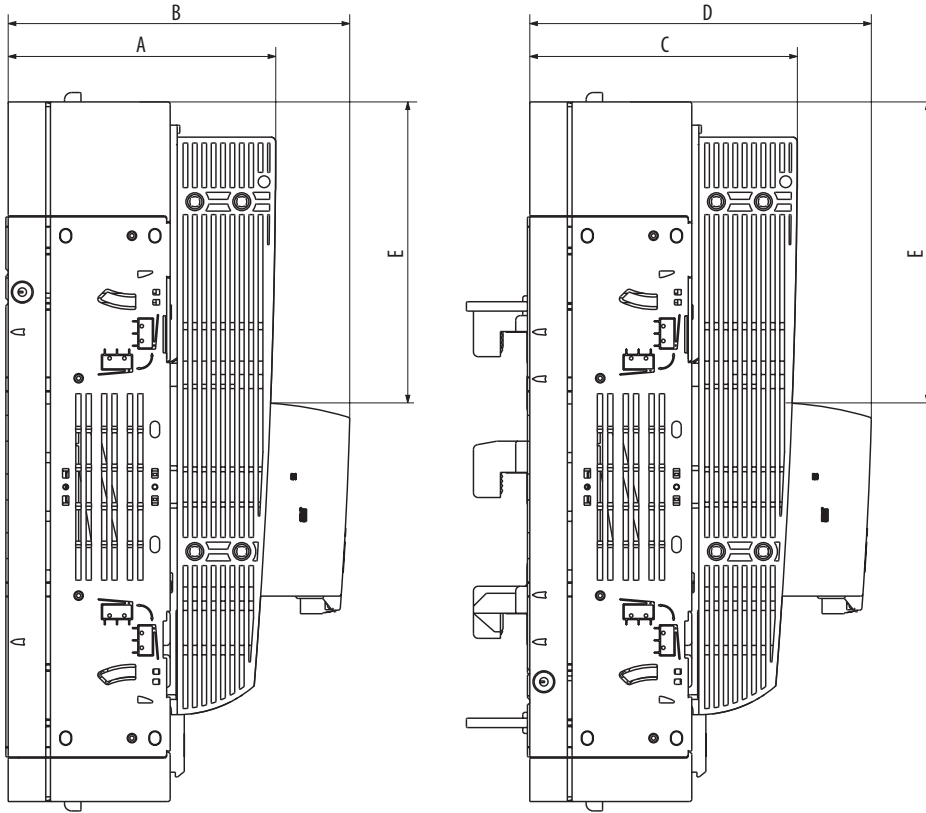
- With signalling of fuse-link state, electronic signalling EFM15, DC 220 ÷ 440 V (L+ - L-).

Order code	Description	Size	Weight [kg]	Package [pcs]
3NP1943-1GB45	3-pole	1	0.942	1
3NP1953-1GB45	3-pole	2	1.018	1
3NP1963-1GB45	3-pole	3	1.175	1

- With signalling of fuse-link state, electronic signalling EFM25, DC 220 ÷ 440 V (L+ - L-).

Order code	Description	Size	Weight [kg]	Package [pcs]
3NP1943-1GB50	3-pole	1	1.007	1
3NP1953-1GB50	3-pole	2	1.100	1
3NP1963-1GB50	3-pole	3	1.230	1

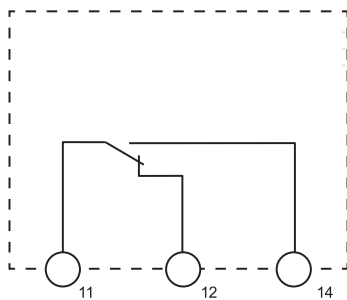
Dimensions



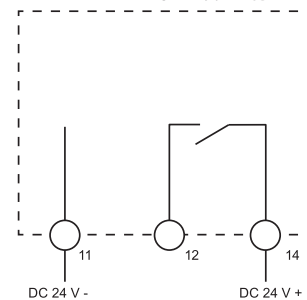
Type (mm)	-			MFM			EFM		
	A		B	C		D	E		
	1p, 3p	3p	1p, 3p	1p, 3p	3p	1p, 3p	3p	1p	3p
3NP114..	114	192.8	147.9	114	192.8	147.9	120.4	104.3	128.2
3NP115..	130	208	161.9	160	208	161.9	120.4	102.4	128.2
3NP116..	138.8	216.3	172	138.8	216.3	172	120.4	104	128.2

Diagram

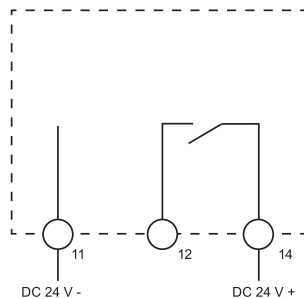
EFM10 3NP19.3-1GB20



EFM15 3NP19.1-1GB41
3NP19.1-1GB43
3NP19.1-1GB44



EFM15 3NP19.3-1GB42
3NP19.3-1GB45



EFM20/25 3NP19.3-1GB30
3NP19.3-1GB50

