

- Naxsopower is a Busbar rating from 40A up to 1250A with four different housings all of them Aluminium made with a strong extrusion and flanged joints so that the flange is a reinforcing part to get stronger the installed lines and safe the joint connections.
- The small BP range from 40 A to 160 A is a compact range useful to fit small machinery through a number of tap offs from 16 A to 160 A.
- BPK range is an intermediate range of busbars high performing while compact dimension from 250A to 400 A small outlet windows let this range to be connected to all the tap off from 16 A to 160 A.
- BP range and BPK range are not recommended when to connect welding machinery or heavy duty machinery is required
- BPG range is a strong range busbar from 250A to 630A fully designed for industrial applications and heavy use.
- BPGG range is a stronger range from 800 A to 1250 A and as well as BPG range is provided with bigger outlet windows that can be compatible with all the tap offs of the power range from 16 A to 300 A.
- All the same when a welding machinery is required to be connected all the tap offs shall be required with heavy duty contacts.

Cat tap off

Cat is the smallest tap off in the power range it is plastic made with different solutions for fuse holders or mcb fixed on din rails. The cover is opened only when the tap off is uninstalled.

Can be fitted with direct contacts without fuse and without mcb is small and simple to use.

Please control the cable size before choosing this tap off because the poor room to fit a cable bush and gasket.

Bull tap off

This tap off is a little bigger than cat and is provided with a mechanism to interlock the lid opened and the tap off removed from the busbar.

A large number of different settings for fuse or mcb or direct connections are provided.

Plastic housing.

Supercat tap off

This large tap off is provided with fuse holders or din rail to fit mcb up to 160 a when fused and 100 a when a circuit breaker is required.

Plastic made it is strong and easy to install not provided with interlock mechanism but fitted with blades to cut the internal current when the lid is opened even if already installed.

Star tap off

The larger plastic made tap off can have a large range of fuse holders and mcb up to 160 a.

Provided with interlock mechanism to avoid uninstalls before opening the cover.

CHECK LIST







- Naxsopower is designed to feed power machinery in general except welding machinery that needs special tap off contacts see PZPA and PZPB part number.
- We suggest not to feed a line or a group through a tap off as tap off is not a T
- We suggest to overdimension lines on the basis of 30 % more than the theoretical rating.
- This to take into account overcurrent and losses.
- After the installation all the lines shall be sturdy fixed to ceiling, straight lined up and perfectly flattened.
- When a dilation is possible due to the buiding or to other factors a flex expansion element insertion at the middle of the line every 20..30 meters is recommended.
- When many circuits are connected the neutral shall always stay equilibrate if not a deratement shall be recommended.
- Check carefully the terminals size.
- The terminal size doesn t mean that the cable of that size shall enter the box or the tap off.
- Some cables are bigger than normal some are armoured some have extra insulation so the terminal size is only a reference not realted to cable.
- To discover if the box or the tap off have room enough for the cable please refer to the box/tap off dimensions quoted in the catalogue and not to the terminal size.

ATTENTION

All the Naxsopower tap off have a reverse pin to prevent from wrong plugging we recommend not to force the insertion to avoid damages.

The correct insertion is opening the outlet window and covering completely the window when the tap off is connected so that no plastic parts of the windows are visible after tap off insertion.

All the products of the catalogue are tested according to En 60439–1-2 norms.

	COD.	interlock mechanism	mechanism to prevent to open the lid when tap off installed on busbar	compatible with all small windows outlets	compatible with big windows outlet usbars	plastic housing	metal housing	kg	Vol Dm³
	CAT	NO	YES	YES	YES	YES	NO	3,6	9
	SUPERCAT	NO	YES	YES	YES	YES	NO	3,7	16
	BULL	YES	YES	YES	YES	YES	NO	2,0	12
	STAR	YES	YES	YES	YES	YES	NO	4,8	20
	STAR SPECIAL	YES	YES	YES	YES	YES	NO	2,0	20
	STAR M	YES	YES	NO	YES	NO	YES	5,2	60

NAXSOPOWER SERIE BP

Rated Current	I_n [A]	40	63	100	160	250
Dimensions	mm	70 x 30	70 x 30	70 x 30	70 x 30	70 x 30
Rated operational voltage	U_e [V]	800	800	800	800	800
Rated insulation voltage	U_i [V]	800	800	800	800	800
Frequency	f [Hz]	50/60	50/60	50/60	50/60	50/60
Rated short time withstand current (1s)	I_{cw} [kA] _{RMS}	6	6	10	10	14
Peak Current	I_{pk} [kA]	9	9	17	17	28
Phase resistance at 20° C	R_{20} [mΩ/m]	1,301	0,906	0,871	0,61	0,324
Phase reactance (50Hz)	X_1 [mΩ/m]	0,346	0,308	0,308	0,205	0,199
Phase impedance	Z_1 [mΩ/m]	1,854	1,305	1,258	0,878	0,466
Phase resistance at thermal conditions	R_1 [mΩ/m]	1,821	1,268	1,219	0,854	0,421
Pe resistance	R_{PE} [mΩ/m]	0,155	0,155	0,155	0,155	0,155
Fault loop resistance phase/N	R_{FN} [mΩ/m]	2,732	2,084	2,003	1,403	0,745
Fault loop reactance phase/N	X_{FN} [mΩ/m]	0,391	0,391	0,363	0,274	0,274
Fault loop impedance phase/N	Z_{FN} [mΩ/m]	2,76	2,12	2,036	1,43	0,794
Fault loop resistance phase/PE	R_{FPE} [mΩ/m]	1,602	1,167	1,129	0,842	0,527
Fault loop reactance phase/PE	X_{FPE} [mΩ/m]	0,278	0,278	0,278	0,278	0,157
Fault loop impedance phase/PE	Z_{FPE} [mΩ/m]	1,626	1,2	1,162	0,886	0,55
Voltage Drop with distributed load	ΔV [V/m/A] $10^{-3} \cos \varphi = 0,70$	1,318	0,959	0,93	0,644	0,378
	ΔV [V/m/A] $10^{-3} \cos \varphi = 0,75$	1,381	1	0,968	0,672	0,388
	ΔV [V/m/A] $10^{-3} \cos \varphi = 0,80$	1,442	1,039	1,005	0,698	0,395
	ΔV [V/m/A] $10^{-3} \cos \varphi = 0,85$	1,499	1,074	1,038	0,722	0,401
	ΔV [V/m/A] $10^{-3} \cos \varphi = 0,90$	1,55	1,105	1,067	0,743	0,403
	ΔV [V/m/A] $10^{-3} \cos \varphi = 0,95$	1,592	1,127	1,087	0,758	0,4
	ΔV [V/m/A] $10^{-3} \cos \varphi = 1,00$	1,577	1,098	1,056	0,74	0,365
Weight	p [kg/m]	2,2	2,3	2,5	2,8	4,2
Degree of protection	IP	41/55	41/55	41/55	41/55	41/55
Losses for the joule effect at rated current	P [W/m]	9	15	37	66	79
Temperature range		-5° + 40°	-5° + 40°	-5° + 40°	-5° + 40°	-5° + 40°

ALL THESE PRODUCTS ARE COMPLIANCE TO STANDARDS IEC 60439 -1 and 2
 ALL THESE PRODUCTS HAVE BEEN CERTIFIED AT IMQ INSTITUTE IN MILAN

NAXSOPOWER SERIE BPK

Rated Current	I_n [A]	250	315	400
Dimensions	mm	77 x 70	77 x 70	77 x 70
Rated operational voltage	U_e [V]	800	800	800
Rated insulation voltage	U_i [V]	800	800	800
Frequency	f [Hz]	50/60	50/60	50/60
Rated short time withstand current (1s)	I_{cw} [kA] _{RMS}	10	13	18
Peak Current	I_{pk} [kA]	15	25	35
Phase resistance at 20° C 20°C	R_{20} [mΩ/m]	0,200	0,150	0,150
Phase reactance (@50Hz)	X_1 [mΩ/m]	0,060	0,060	0,060
Phase impedance	Z_1 [mΩ/m]	0,210	0,180	0,160
Phase resistance at thermal conditions	R_1 [mΩ/m]	0,280	0,240	0,210
Pe resistance	R_{PE} [mΩ/m]	0,093	0,093	0,093
Fault loop resistance phase/N	R_{FN} [mΩ/m]	0,525	0,452	0,364
Fault loop reactance phase/N	X_{FN} [mΩ/m]	0,072	0,072	0,072
Fault loop impedance phase/N	Z_{FN} [mΩ/m]	0,530	0,450	0,371
Fault loop resistance phase/PE	R_{FPE} [mΩ/m]	0,458	0,412	0,338
Fault loop reactance phase/PE	X_{FPE} [mΩ/m]	0,270	0,270	0,270
Fault loop impedance phase/PE	Z_{FPE} [mΩ/m]	0,530	0,495	0,473
Voltage Drop with distributed load	ΔV [V/m/A] $10^{-3} \cos \varphi = 0,70$	0,230	0,195	0,172
	ΔV [V/m/A] $10^{-3} \cos \varphi = 0,75$	0,237	0,202	0,179
	ΔV [V/m/A] $10^{-3} \cos \varphi = 0,80$	0,244	0,209	0,186
	ΔV [V/m/A] $10^{-3} \cos \varphi = 0,85$	0,250	0,215	0,192
	ΔV [V/m/A] $10^{-3} \cos \varphi = 0,90$	0,256	0,221	0,198
	ΔV [V/m/A] $10^{-3} \cos \varphi = 0,95$	0,260	0,225	0,204
	ΔV [V/m/A] $10^{-3} \cos \varphi = 1,00$	0,257	0,223	0,201
Weight	p [kg/m]	4,2	4,5	4,5
Degree of protection	IP	41/55	41/55	41/55
Losses for the joule effect at rated current	P [W/m]	48	63	69
Temperature range		-5° + 40°	-5° + 40°	-5° + 40°

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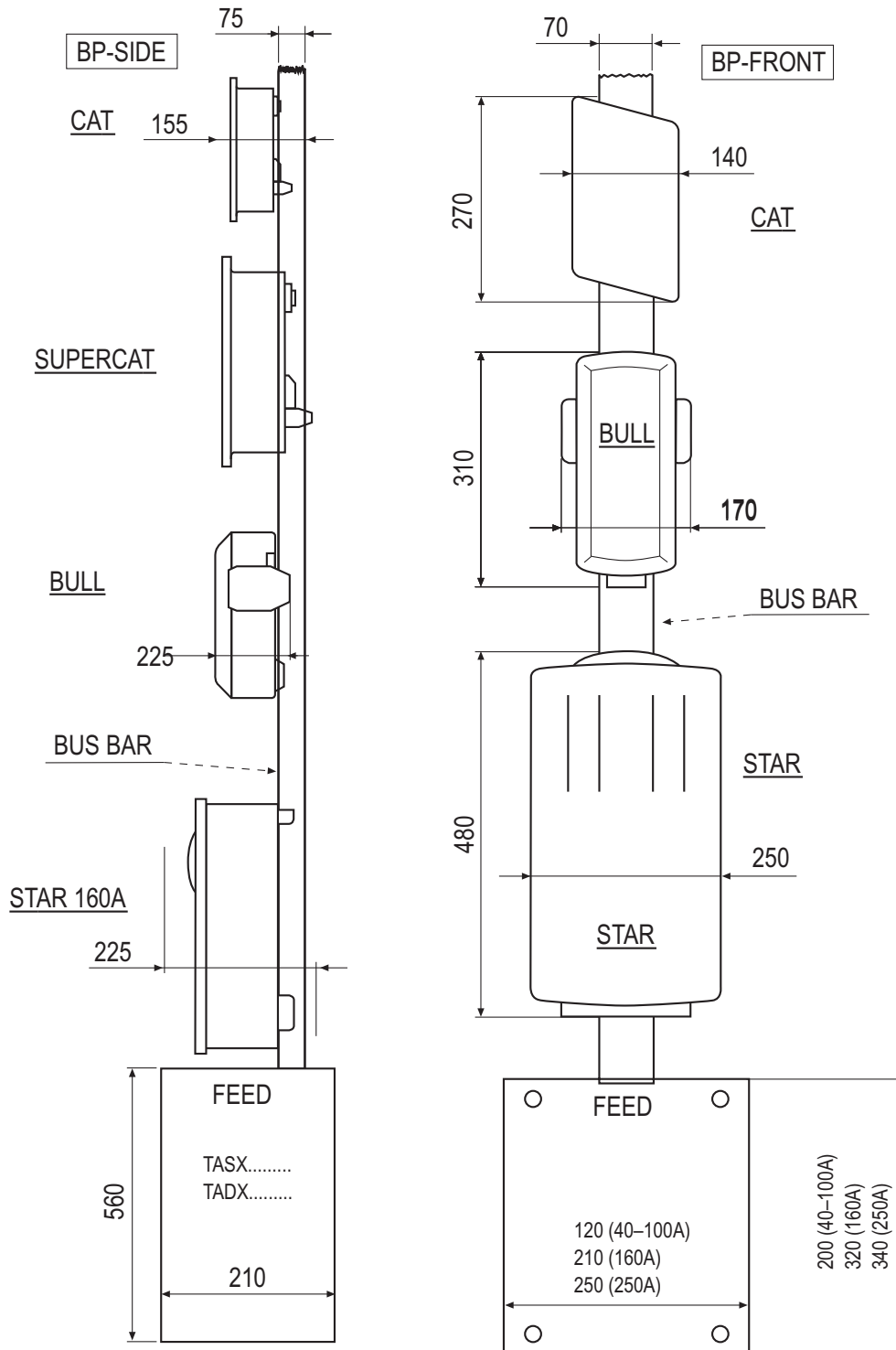
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NAXSOPOWER SERIE BPG/BPGG

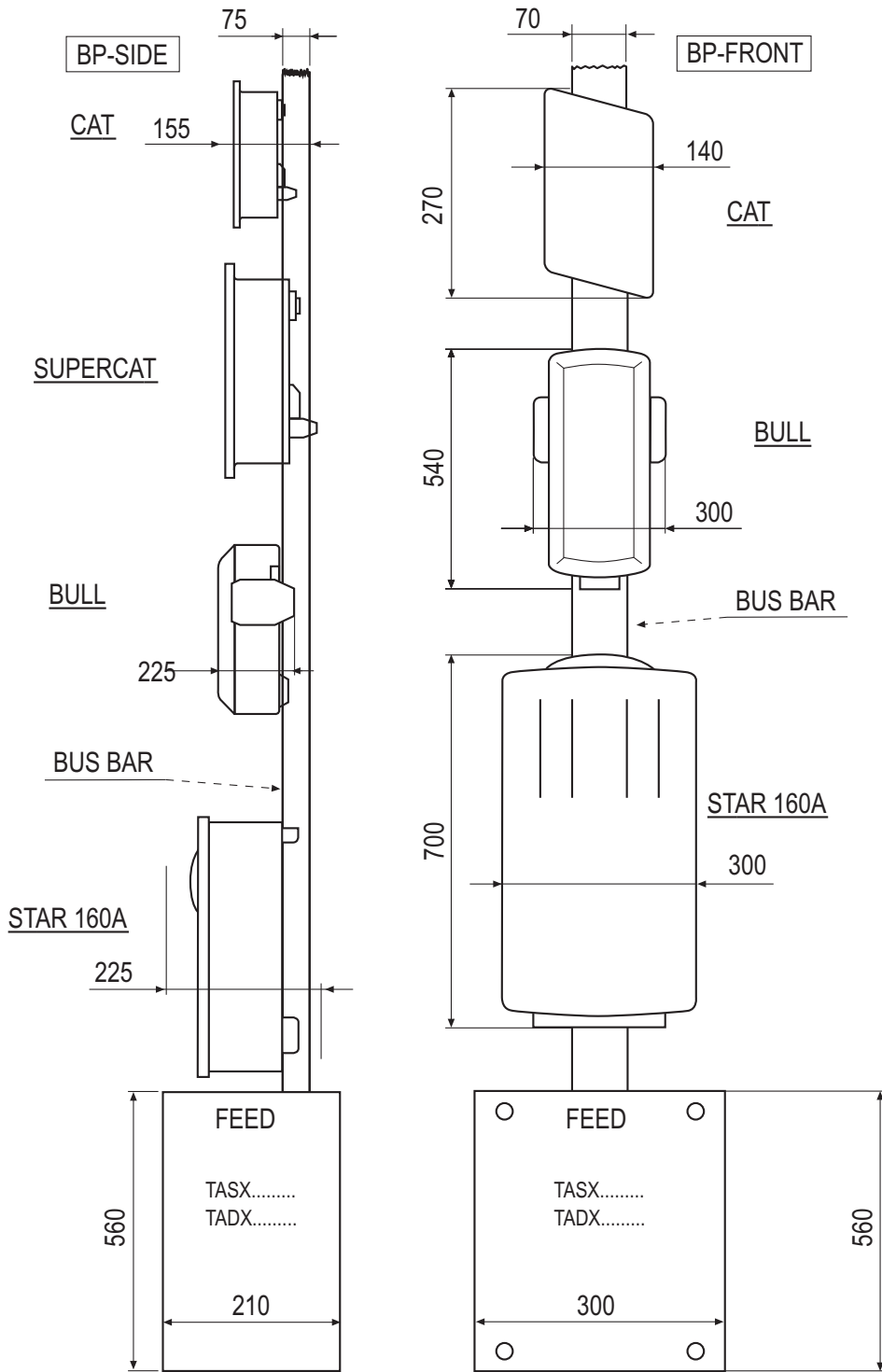
Rated Current	I_n [A]	250	315	400	500	630	800	1000
Dimensions	mm	120x70	120x70	120x70	120x70	120x70	230x70	230x70
Rated operational voltage	U_e [V]	800	800	800	800	800	800	800
Rated insulation voltage	U_i [V]	800	800	800	800	800	800	800
Frequency	f [Hz]	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Rated short time withstand current (1s)	I_{cw} [kA] _{RMS}	10	17	30	40	40	50	50
Peak Current	I_{pk} [kA]	20	34	63	84	84	105	105
Phase resistance at 20° C	R_{20} [mΩ/m]	0,155	0,145	0,087	0,077	0,076	0,047	0,041
Phase reactance (50Hz)	X_1 [mΩ/m]	0,047	0,047	0,045	0,045	0,043	0,035	0,035
Phase impedance	Z_1 [mΩ/m]	0,222	0,208	0,13	0,117	0,115	0,075	0,067
Phase resistance at thermal conditions	R_1 [mΩ/m]	0,217	0,203	0,122	0,108	0,106	0,066	0,057
Pe resistance	R_{PE} [mΩ/m]	0,051	0,051	0,051	0,051	0,051	0,051	0,051
Fault loop resistance phase/N	R_{FN} [mΩ/m]	0,326	0,305	0,183	0,162	0,16	0,099	0,086
Fault loop reactance phase/N	X_{FN} [mΩ/m]	0,045	0,045	0,042	0,042	0,04	0,032	0,032
Fault loop impedance phase/N	Z_{FN} [mΩ/m]	0,329	0,308	0,187	0,167	0,165	0,104	0,092
Fault loop resistance phase/PE	R_{FPE} [mΩ/m]	0,227	0,216	0,152	0,141	0,14	0,07	0,064
Fault loop reactance phase/PE	X_{FPE} [mΩ/m]	0,123	0,123	0,115	0,115	0,115	0,102	0,102
Fault loop impedance phase/PE	Z_{FPE} [mΩ/m]	0,258	0,248	0,19	0,182	0,181	0,124	0,12
Voltage Drop with distributed load	ΔV [V/m/A] 10-3 $\cos \varphi = 0,70$	0,161	0,152	0,102	0,093	0,091	0,062	0,056
	ΔV [V/m/A] 10-3 $\cos \varphi = 0,75$	0,168	0,159	0,105	0,096	0,094	0,063	0,057
	ΔV [V/m/A] 10-3 $\cos \varphi = 0,80$	0,175	0,165	0,108	0,098	0,096	0,064	0,058
	ΔV [V/m/A] 10-3 $\cos \varphi = 0,85$	0,181	0,171	0,11	0,1	0,098	0,064	0,058
	ΔV [V/m/A] 10-3 $\cos \varphi = 0,90$	0,187	0,176	0,112	0,101	0,099	0,064	0,058
	ΔV [V/m/A] 10-3 $\cos \varphi = 0,95$	0,191	0,18	0,112	0,101	0,099	0,064	0,057
	ΔV [V/m/A] 10-3 $\cos \varphi = 1,00$	0,188	0,176	0,105	0,093	0,092	0,057	0,05
Weight	p [kg/m]	5	5,5	6	6,5	7,5	10	15
Degree of protection	IP	41/55	41/55	41/55	41/55	41/55	41/55	41/55
Losses for the joule effect at rated current	P [W/m] (trifase)	41	60	58	81	127	126	172
Temperature range		-5° +40°	-5° +40°	-5° +40°	-5° +40°	-5° +40°	-5° +40°	-5° +40°

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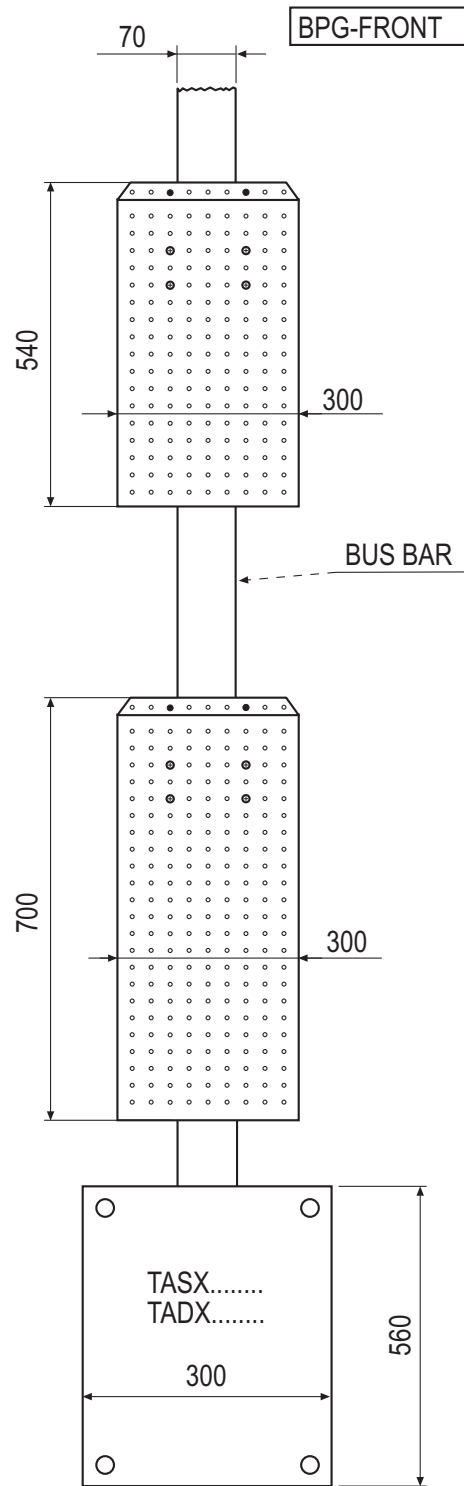
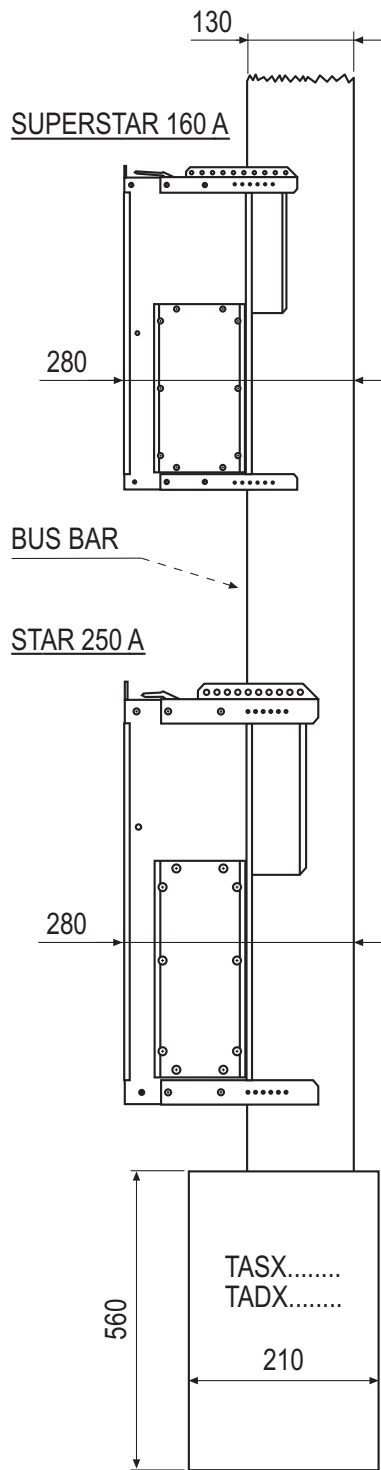
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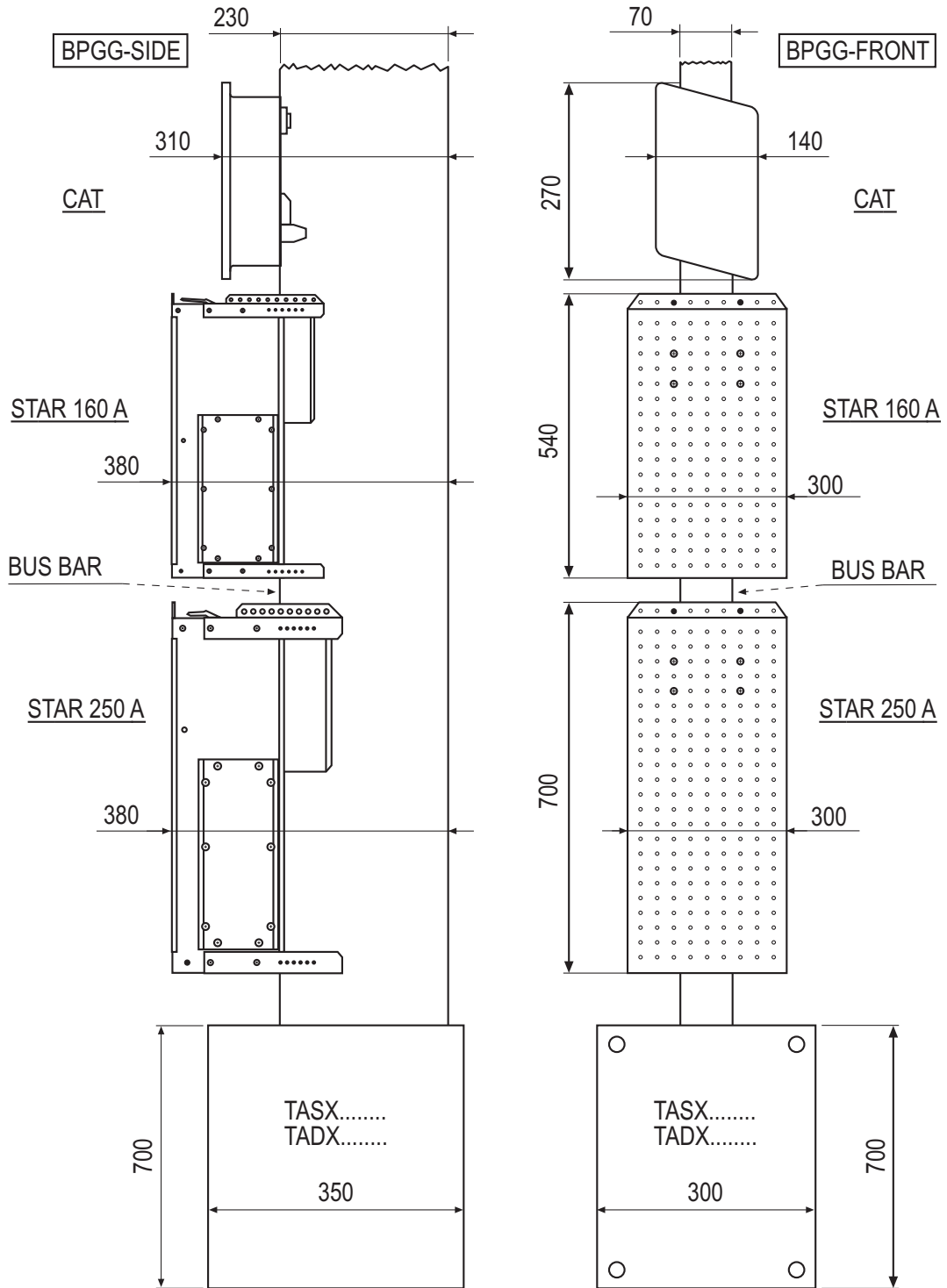
BPK

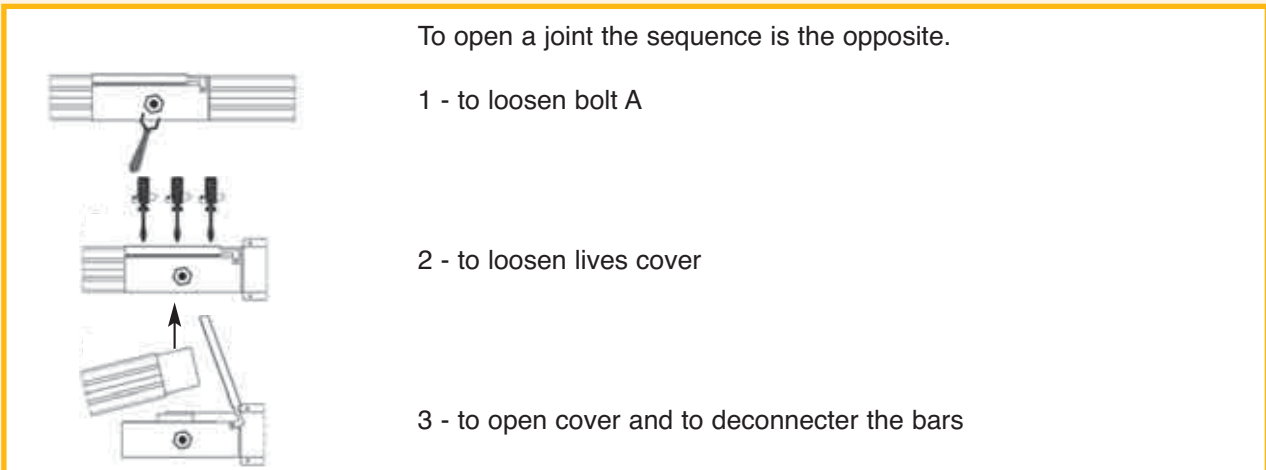
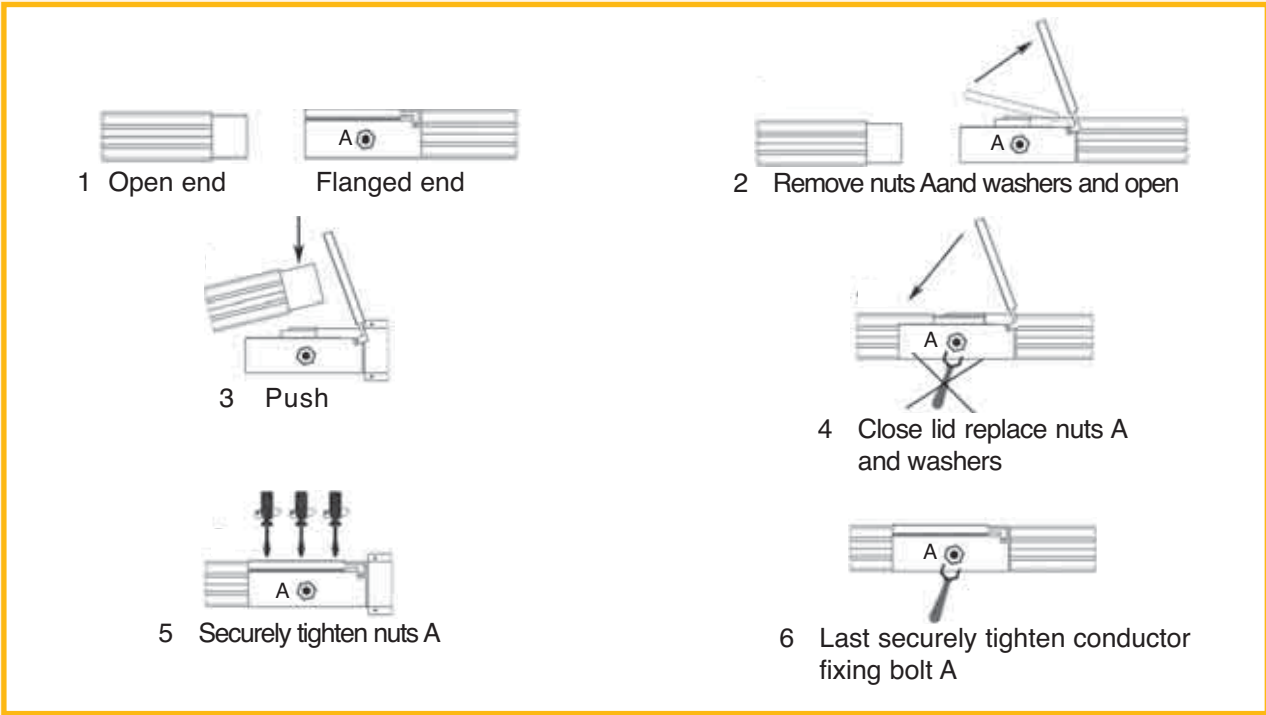


BPG



BPGG





To open a joint the sequence is the opposite.

1 - to loosen bolt A

2 - to loosen lives cover

3 - to open cover and to disconnecter the bars

Joint two NAXSOPOWER lengths

Off the 2 sections of trunking together.

Locate the upper section on to the bolts provided.



Ensuring the 2 sections are in place tighten the bolts to provide a sound/soud joint.





BP

16 A	F	CAT
16 A	D	CAT
16 A	INT	CAT
32 A	F	CAT o BULL
32 A	D	CAT o BULL
32 A	INT	CAT o BULL
50 A	F	BULL o STAR
50 A	INT	BULL o STAR
50A	F	SUPERCAT
63A	D	SUPERCAT
100A	F	SUPERCAT
160A	F	SUPERCAT
160A	D	SUPERCAT
	S	SUPERCAT SPECIAL
	S	SUPERCAT SPECIAL
	S1	SUPERCAT SPECIAL
	S2	SUPERCAT SPECIAL
	S3	SUPERCAT SPECIAL
	S	SUPERCAT SPECIAL
	S	SUPERCAT SPECIAL
	S	SUPERCAT SPECIAL
	S	SUPERCAT SPECIAL
	S	SUPERCAT SPECIAL
100 A	F	BULL o STAR
100 A	INT	STAR
160 A	F	STAR
160 A	INT	STAR
		STAR MET



BPK

16 A	F	CAT
16 A	D	CAT
16 A	INT	CAT
32 A	F	CAT o BULL
32 A	D	CAT o BULL
32 A	INT	CAT o BULL
50 A	F	BULL o STAR
50 A	INT	BULL o STAR
50A	F	SUPERCAT
63A	D	SUPERCAT
100A	F	SUPERCAT
160A	F	SUPERCAT
160A	D	SUPERCAT
	S	SUPERCAT SPECIAL
	S	SUPERCAT SPECIAL
	S1	SUPERCAT SPECIAL
	S2	SUPERCAT SPECIAL
	S3	SUPERCAT SPECIAL
	S	SUPERCAT SPECIAL
	S	SUPERCAT SPECIAL
	S	SUPERCAT SPECIAL
	S	SUPERCAT SPECIAL
	S	SUPERCAT SPECIAL
100 A	F	BULL o STAR
100 A	INT	STAR
160 A	F	STAR



BPG

16 A	F	CAT
16 A	D	CAT
16 A	INT	CAT
32 A	F	CAT o BULL
32 A	D	CAT o BULL
32 A	INT	CAT o BULL
50 A	F	BULL o STAR
50 A	INT	BULL o STAR
50A	F	SUPERCAT
63A	D	SUPERCAT
100A	F	SUPERCAT
160A	F	SUPERCAT
160A	D	SUPERCAT
	S	SUPERCAT SPECIAL
	S	SUPERCAT SPECIAL
	S1	SUPERCAT SPECIAL
	S2	SUPERCAT SPECIAL
	S3	SUPERCAT SPECIAL
	S	SUPERCAT SPECIAL
	S	SUPERCAT SPECIAL
	S	SUPERCAT SPECIAL
	S	SUPERCAT SPECIAL
	S	SUPERCAT SPECIAL
100 A	F	BULL o STAR
100 A	INT	STAR
160 A	F	STAR
160 A	INT	STAR
		STAR MET

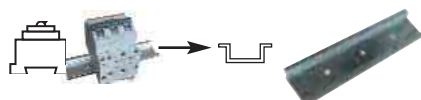
BPGG

16 A	F	CAT
16 A	D	CAT
16 A	INT	CAT
32 A	F	CAT o BULL
32 A	D	CAT o BULL
32 A	INT	CAT o BULL
50 A	F	BULL o STAR
50 A	INT	BULL o STAR
50A	F	SUPERCAT
63A	D	SUPERCAT
100A	F	SUPERCAT
160A	F	SUPERCAT
160A	D	SUPERCAT
	S	SUPERCAT SPECIAL
	S	SUPERCAT SPECIAL
	S1	SUPERCAT SPECIAL
	S2	SUPERCAT SPECIAL
	S3	SUPERCAT SPECIAL
	S	SUPERCAT SPECIAL
	S	SUPERCAT SPECIAL
	S	SUPERCAT SPECIAL
	S	SUPERCAT SPECIAL
	S	SUPERCAT SPECIAL
100 A	F	BULL o STAR
100 A	INT	STAR
160 A	F	STAR
160 A	INT	STAR
		STAR MET
250 A	F	STAR MET
250 A	INT	STAR MET

F =



INT =



D =



