

TFP

Pantograph disconnecter 123, 145, 170, 245 and 420 kV



CHARACTERISTICS

- High peak and short-circuit parameters 160/63kA
- Minimalization of distance between poles in diagonal arrangement
- High durability against forces, e.x. seismic, short-circuit without negative influence on operating mechanisms thanks to 'dead point' solution (crank mechanism)
- Available with arcing contact
- Many variants of engaging with busbars system
- Gear mechanism of the current path closed in aluminum housing box
- Excellent anti-corrosion protection
- Reliability of working in hard weather conditions
- One operating mechanism for three-pole apparatus up to 145kV, above 145kV separate operating mechanism for each pole
- Cooperating with Swiss company PFIFFNER Group

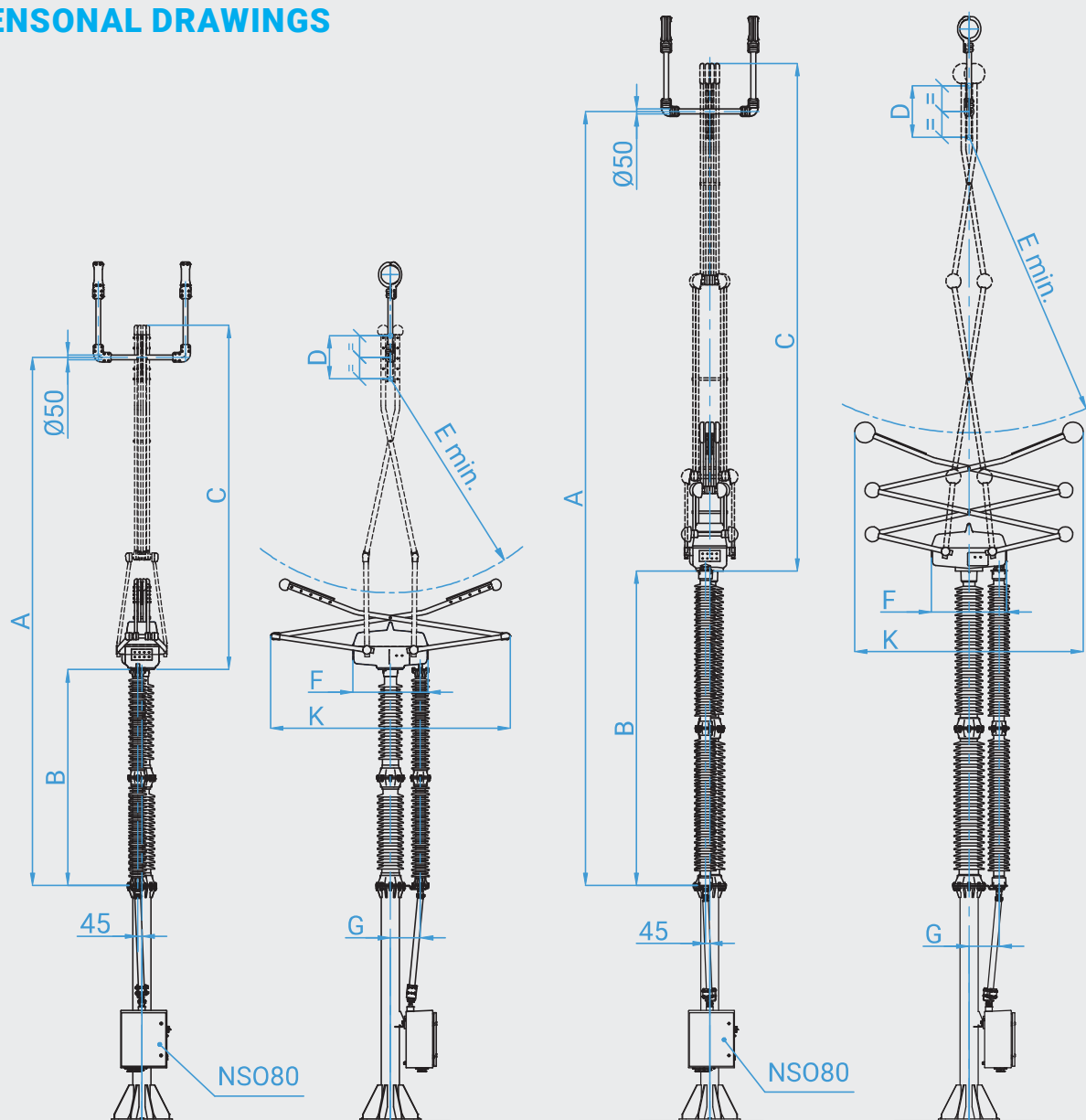
SPECIFICATION



Item	Parameter	Value				
1.	Rated operating value	123 [kV]	145 [kV]	170 [kV]	245 [kV]	420 [kV]
2.	Rated continuous current	2200 [A] 2500 [A] 3150 [A]	2200 [A] 2500 [A] 3150 [A]	2200 [A] 2500 [A] 3150 [A]	2500 [A] 3150 [A] 4000 [A]	3150 [A] 4000 [A]
3.	Peak current	100 [kA]	100 [kA]	100/125 [kA]	125/160 [kA]	125/160 [kA]
4.	Short-circuit current	40 [kA]	40 [kA]	40/50 [kA]	50/63 [kA]	50/63 [kA]
5.	Test voltage(50Hz): - earth and pole to pole insulation - contact to contact insulation	230 [kV] 265 [kV]	275 [kV] 315 [kV]	325 [kV] 375 [kV]	460 [kV] 530 [kV]	520 [kV] 610 [kV]
6.	Surge test voltage: - earth and pole to pole insulation - contact to contact insulation	550 [kV] 630 [kV]	650 [kV] 750 [kV]	750 [kV] 860 [kV]	1050 [kV] 1200 [kV]	1425 [kV] 1425 (+240)* [kV]
7.	Rated switching impulse withstand voltage of the insulation: - earth - contact to contact insulation	- -	- -	- -	- -	1050 [kV] 900 (+345)* [kV]
8.	Motor operating mechanism	NSO80	NSO80	NSO80	NSO80	NSO80

* The values in brackets indicate the peak AC voltage applied to the opposite terminal.

DIMENSIONAL DRAWINGS



Type	Rated Voltage [kV]	Fig.	Dimensions [mm]							
			A	B	C	D	E	F	G	K
TFPK	123	1	2890	1220	1800	300	1150	630	260	1250
TFPK	145	1	3590	1500	2403	300	1465	630	260	1672
TFPK	170	1	3982	1700	2574	300	1570	630	260	1810
TFPA	170	1	4390	1700	2915	300	1630	800	320	2145
TFPA	245	1	5630	2300	3625	460	2280	800	320	2540
TFP	245	2	6265	2300	4410	460	2350	800	320	1740
TFP	420	2	8260	3350	5412	550	3150	800	320	2349