

Technical Specifications for Load breaking Switch 24 KV ( 3 phase )

No.	Description	Unit	Requirements	Offered Data
1	Designation		Indoor	Indoor
2	Type		Load break switch 24KV-3phases	
3	Name of manufacturer		Sasun Electric Co.,ltd	Sasun Electric Co.,ltd
4	Country of origin			
5	Standard		IEC 265 last revision or equivalent IEC 129 VDE 0670 IEC 420 DIN 43625	IEC 265
6	Climatic design suitable for - Maximum ambient temp. - Minimum ambient temp.	C°	+45 -10	+50C -25C
7	Rated voltage ( Un )	KV	20	24
8	Maximum service voltage ( U max)	KV	24	24
9	Rated frequency	Hz.	50	50
10	Rated current	A	400	630
11	Rated short time current - 1 Sec (Ith)  - 2 Sec (Ith)	KA r.m.s.  KA r.m.s	16  10	20  10
12	Rated peak withstand Current ( Idyn)	KA Peak	40	50
13	Rated short circuit Making capacity Ima	KV Peak	40	50
14	Max breaking capacity $\cos \Phi = 0.25$ acc to IEC 420 - supply voltage pivotside - supply voltage opening side	A r.m.s A r.m.s	Acc. To IEC 420	Acc. To IEC 420 800A  800A
15	Rated mainly active load breaking capacity $\cos \Phi = 0.7$ ( 11 )	A r.m.s	Acc. To IEC 420	630
16	Max mainly active load breaking capacity $\cos \Phi = 0.3$ ( I 2 )	A r.m.s		630
17	Rated closed loop breaking capacity $\cos \Phi = 0.3$ ( I 2 )	A r.m.s		630
18	Closed loop breaking current 20 operation $\cos \Phi 0.3$ inductive	A r.m.s		630
19	Rated breaking current - 20 operation - max breaking current (3 operation )	A A		630 630
20	Breaking current -200 operation $\cos \Phi 0.7$ -20 operation $\cos \Phi 0.15$ inductive -20 operation capacitive	A A A		630 16  80

21	Rated transformer off-load breaking capacity $\cos \Phi 0.15$ ( I 3 )	A r.m.s	16	17
22	Rated single capacitor bank breaking capacity ( I 4 )	A r.m.s	45	50
23	Rated cable charging capacity ( I 6 )	A r.m.s	45	50
24	Earth-fault braking capacity acc. To VDE 0670/3 § 39 table 8 - fig E - fig D	A r.m.s A r.m.s		55 35
25	Power frequency withstand voltage 50 Hz. 1 min - to earth and between poles - across the isolating distance	KV r.m.s KV r.m.s	50 60	55 65
26	Impulse withstand voltage 1.2/50 $\mu$ s - to earth and between poles - across the isolating distance	KV peak KV peak	125 145	125 145
27	Mechanical life time in : (switching cycles)			2500 operation
28	Shut down mechanism for the switch when any fuse works			Shut down Mechanism for the switch when any fuse works
29	Lever drive handle ( up and down )			Lever drive handed(up and down)
30	Stored energy operating mechanism by spring			Stored energy Operating mechanism By spring
31	Max operating torque when : - closing - opening	N.M N.M		64 64
32	Pole distance	mm		275
33	Operating angle on the shaft	Degree		80
34	Opening time	m.s		35
35	Arcing time	m.s		20
36	Arc quenching chamber			Provided
37	Insulator - materials - creepage distance - flash over distance			Epoxy Resin 285mm 275mm
38	Shunt trip coil release - type - voltage of operation - power input	V W	220	Epoxy 220V 550
39	CONTACTS - material of contacts - contact stage			Copper silver plated 2 stages

40	Earthing switch attachment : - rated short time current ( 1 th ) 1 sec - peak withstand current I (dyn) - short circuit making capacity Ima - power frequency withstand voltage - impulse withstand voltage - pole distance	KA r.m.s KA Peak KA Peak KV KV MM	16	25 KA rms  50 KA rms  50 KA rms  55  125 275		
41	Weight	KG		W/O fuse: 45Kg± With fuse: 55Kg± Earthing switch: 10Kg±		
42	Dimensions - length over-all - width over-all - height over-all	mm mm mm	W/O fuse <600 <800 <800	with fuse <1200 < 800 < 800	W/O fuse 590 780 502	with fuse 1140± 780± 502±