Switch Disconnectors with Fuses

SENTRON 3NJ6 In-Line Switch Disconnectors with Fuses up to 630 A

3NJ62 switch disconnectors with fuses
General data

More information

Standards		**EN / IEC 60947-3**											
Size		**Size 00**				**Size 1**		**Size 2**		**Size 3**			
Type 3NJ62 ..-.													
With LV HRC fuse links		**--**		**...03-1 ...04-1 ...04-2**	**...03-3 ...03-4**	**...13-1 ...14-1 ...14-2**	**...13-3 ...13-4**	**...23-1 ...24-1 ...24-2**	**...23-3 ...23-4**	**...33-1 ...34-1 ...34-2**	**...33-3 ...33-4**		
With BS fuse links		**...43-3**	**...53-3**	**...64-1**	**...63-3 ...63-4**	**...74-1 ...74-2**	**...73-3 ...73-4**	**...84-1 ...84-2**	**...83-3 ...83-4**	**...94-1 ...94-2**	**...93-3 ...93-4**		
Switching capacity		**H**	**H**	**S**	**H**	**S**	**H**	**S**	**H**	**S**	**H**		
Rated insulation voltage U_i	V	1000											
Rated peak withstand voltage U_{imp}	V	8000											
For LV HRC fuse links acc. to IEC 60269		--		00 and 000		1		2 and 1		3 and 2			
For BS fuse links acc. to BS 88		A3		00T[1]		B2		B4		3T[1]			
Rated operational current I_e For fuse links acc. to IEC 60269/BS 88	A	63	100	160	125	160	125	250	250	400	400	630	500	630	500
Rated operational voltage U_e At 50/60 Hz rated frequency	V AC	690	690	500	690	500	690	690	690	690	690	500	690	500	690
Utilization categories		AC-23B	AC-23B	AC-22B		AC-23B		AC-22B	AC-23B	AC-22B		AC-23B	
Rated conditional short-circuit current													
Short-circuit strength, rms value	kA	100	100	100		100		100	100	100		100	
Short-circuit making capacity, rms value	kA	66	66	55		66		55	66	55		66	
Rated making capacity													
p.f. = 0.65	A	--	--	480	375	--	--	750	--	1200	--	1890	1500	--	--
p.f. = 0.45	A	630	1000	--	--	--	--	--	--	--	--	--	--	--	--
p.f. = 0.35	A	--	--	--	--	1600	1250	--	2500	--	4000	--	--	6300	5000
Rated breaking capacity													
p.f. = 0.65	A	--	--	480	375	--	--	750	--	1200	--	1890	1500	--	--
p.f. = 0.45	A	504	800	--	--	--	--	--	--	--	--	--	--	--	--
p.f. = 0.35	A	--	--	--	--	1280	1000	--	2000	--	3200	--	--	5040	4000
Endurance													
Operating cycles total		2000		1600		1600		1000		1000			
Operating cycles electrical at 690 V, p.f. = 0.65		300		200		200		200		200			
Power loss Without fuse links	W	7	17	43		78		158		357			
Permissible ambient temperature	°C	-5 ... +55											
Permissible mounting positions		Horizontal and vertical with bottom connection											
Degree of protection (in operating state)		IP41											
Main conductor connections													
Cable lug connection conductor cross-section													
Al/Cu, solid or stranded	mm^2	1 x (10 ... 95)		1 x (10 ... 95)		1 x (25 ... 240)		1 x (25 ... 300)		1 x (25 ... 300)			
Acc. to DIN 46235 (Cu) and DIN 46239 (Al)	mm^2	2 x (16 ... 70)		2 x (16 ... 70)		1 x (25 ... 70)		2 x (25 ... 240)		2 x (25 ... 240)			
Screw size		M8		M8		M12		2 x M12		2 x M12			
Torque	Nm	15		15		30		30		30			
Terminal connection													
(Al/Cu), rm	mm^2	1 x (10 ... 50)		1 x (10 ... 50)		1 x (16 ... 185		2 x (16 ... 185)		2 x (16 ... 185)			
(Al/Cu), re	mm^2	1 x (10 ... 50)		1 x (10 ... 50)		1 x (16 ... 150)		2 x (16 ... 150)		2 x (16 ... 150)			
(Al/Cu), sm	mm^2	1 x (16 ... 95)		1 x (16 ... 95)		1 x (16 ... 240)		2 x (16 ... 240)		2 x (16 ... 240)			
(Al/Cu), se	mm^2	1 x (16 ... 95)		1 x (16 ... 95)		1 x (35 ... 300)		2 x (35 ... 300)		2 x (35 ... 300)			
Torque	Nm	15		15		25		25		25			
Motorized operating mechanisms													
Control supply voltage	V DC	24 ±2											
Power consumption	A	1.1				1.3		2.8					
Signal duration	s	min. 0.5 or continuous signal											
Auxiliary switches													
Rated insulation voltage U_i	V	690											
Rated peak withstand voltage U_{imp}	V	8000											
Rated operational current I_e													
At AC-15, U_e = 120 V	A	8											
At AC-15, U_e = 230V	A	6											
At AC-15, U_e = 400 V	A	4											
At AC-15, U_e = 690 V	A	2											

[1] The fuse is available from Lawson fuses (UK) and does not correspond to BS 88.