

Superswitch 3KL8/ 3KA8



Highlights

- Switch Disconnector Fuse available from 20A to 800A in 2P, 3P, 3P+N & 3P + Switched Neutral Versions.
- Switch Disconnector available from 63A to 1600A.
- Motor duty as well as Power Distribution Switches.
- Superswitch suitable for applications up to 690V AC.
- Suitable for high temperature applications up to 60°C.
- Option of isolable neutral as well as switched neutral pole for the entire range.
- Increased safety through IP20 Fuse Covers and terminal cover.
- Suitable for Isolation as per IS/IEC 60947-3.
- Unique Positive OFF indication to indicate the true position of contacts.
- Fuse monitoring provision via 3VU1340 fuse monitor.
- Type 2 Coordinated combination available for the entire range.
- Rotary handle with telescopic shaft for depth adjustment.

Application

- Siemens 3K range of Superswitch SDFs are used as short circuit protection device with fuses and main controls switches in industrial switchboards as well as building (residential & commercial) switchboards.
- The switch is also available in Switch Disconnector versions, it ensures making and breaking of the specified rated current with or without load. At the same time, they are used for safety isolating function as isolation device in various low-voltage circuits.
- Superswitch conforms to IS/IEC 60947-3. Superswitch has a very high life compared to the contemporary products offered today.
- Superswitch 3KL8 is suitable for protection & switching Motor feeders as the complete range is Type-2 Coordinated.



Superswitch 3KL8 Switch Disconnecter Fuse



General Technical Information

Superswitch 3KL8 - Conforms to IS/IEC 60947-3		3KL811	3KL812	3KL815
No. of Poles		TP/ TPN/ TPSN		
Rated operational voltage U_e @ 50/60 Hz AC	V	690	690	690
Rated insulation voltage U_i	V	800	800	800
Rated impulse voltage U_{imp}	kV	6	6	6
Rated Operational Current I_e at AC23A @ 690V AC	A	20	32	63
Rated Operational Current I_e at AC23A, @ 550V AC	A	20	32	63
Mechanical endurance - no. of cycles		25000	25000	25000
Suitable for max. capacitor bank	kVAR	12	14	29
Rated Conditional S/C current (rms) with fuses @ 690V AC	kA	80	80	80
Rated Conditional S/C current (rms) with fuses @ 500V AC	kA	100	100	100
Degree of Protection with Fuse & Terminal cover (from front - panel door open)		IP20	IP20	IP20

Superswitch 3KL8 - Conforms to IS/IEC 60947-3		3KL821	3KL822	3KL823
No. of Poles		DP/ TP/ TPN/ TPSN	DP/ TP/ TPN/ TPSN	DP/ TP/ TPN/ TPSN
Rated operational voltage U_e @ 50/60 Hz AC	V	690	690	690
Rated insulation voltage U_i	V	1000	1000	1000
Rated impulse voltage U_{imp}	kV	8	8	8
Rated Operational Current I_e at AC23A @ 690V AC	A	100	125	160
Rated Operational Current I_e at AC23A, @ 550V AC	A	100	125	160
Mechanical endurance - no. of cycles		25000	25000	25000
Suitable for max. capacitor bank	kVAR	46	58	58
Rated Conditional S/C current (rms) with fuses @ 690V AC	kA	80	80	80
Rated Conditional S/C current (rms) with fuses @ 500V AC	kA	100	100	100
Degree of Protection with Fuse & Terminal cover (from front - panel door open)		IP20	IP20	IP20

Superswitch 3KL8 - Conforms to IS/IEC 60947-3		3KL831	3KL832	3KL833
No. of Poles		DP/ TP/ TPN/ TPSN	DP/ TP/ TPN/ TPSN	DP/ TP/ TPN/ TPSN
Rated operational voltage U_e @ 50/60 Hz AC	V	690	690	690
Rated insulation voltage U_i	V	1000	1000	1000
Rated impulse voltage U_{imp}	kV	8	8	8
Rated Operational Current I_e at AC23A @ 690V AC	A	200	250	315
Rated Operational Current I_e at AC23A, @ 550V AC	A	200	250	315
Mechanical endurance - no. of cycles		20000	20000	20000
Suitable for max. capacitor bank	kVAR	95	116	145
Rated Conditional S/C current (rms) with fuses @ 690V AC	kA	80	80	80
Rated Conditional S/C current (rms) with fuses @ 500V AC	kA	100	100	100
Degree of Protection with Fuse & Terminal cover (from front - panel door open)		IP20	IP20	IP20

Superswitch 3KL8 - Conforms to IS/IEC 60947-3		3KL834	3KL841	3KL842	3KL843
No. of Poles		DP/ TP/ TPN/ TPSN	DP/ TP/ TPN/ TPSN	DP/ TP/ TPN/ TPSN	DP/ TP/ TPN/ TPSN
Rated operational voltage U_e @ 50/60 Hz AC	V	690	690	690	690
Rated insulation voltage U_i	V	1000	1000	1000	1000
Rated impulse voltage U_{imp}	kV	8	8	8	8
Rated Operational Current I_e at AC23A @ 690V AC	A	315	500	630	710
Rated Operational Current I_e at AC23A, @ 550V AC	A	400	500	630	800
Mechanical endurance - no. of cycles		20000	15000	15000	15000
Suitable for max. capacitor bank	kVAR	186	294	294	374
Rated Conditional S/C current (rms) with fuses @ 690V AC	kA	80	80	80	80
Rated Conditional S/C current (rms) with fuses @ 500V AC	kA	100	100	100	100
Degree of Protection with Fuse & Terminal cover (from front - panel door open)		IP20	IP20	IP20	IP20

Auxiliary Switch: General Data for 3KL8 Switch Disconnecter Fuse		3KL81/2/3/4
Rated Voltage AC 50Hz	V	500
Rated Voltage DC	V	600
Continuous Current	A	10
Rated Operational Current I_e at AC12 @ 415V AC	A	10
Rated Operational Current I_e at DC12 @ 110V DC	A	4
Maximum Fuse rating for S/C Protection - delayed action cartridge type	A	10