



Switch Selection – 6 Pole Switches for Star-Delta Motor Isolation

Switch Type	Max. S/D Motor Rating		Max.Back-up Fuse Amps	Max. Terminal Capacity, sq mm	
	kW @ 380/440v 3 ph.	Amps		Single Core & Stranded Wire	Flexible with Sleeve
KG10	7.5	16	20	2.5	1.5
KG20	11	23	35	6	4
KG32	15	30	35	6	4
KG41	22	43	50	16	10
KG64	30	59	63	16	10
KG80	37	72	80	50	35
KG100	45	85	100	50	35
KG125/126	55	105	125	95	70
KG160/161	75	140	160	95	70
C125	90	170	200	70	50
C316	150 (160kW @ 400/440V)	280	315	185	150

Note:

1. The switch assembly should include 1 n/o auxiliary contact to signal to the star-delta starter control that the switch has opened and the starter is to be switched off.
2. When quoting or advising on the use of these switches the relevant maximum back-up fuse value and switch terminal capacity for the selected switch or switches must be stated.
3. Switch selection for star-delta motor isolation is determined from consideration of the following criteria:-
 - a) AC-23A rating for the switch, multiplied by 1.73, must be more than or equal to the motor kW rating.
 - b) Value of back-up fuse must be suitable for both protection of the switch and starting of the motor.
 - c) Terminal size must be selected to suit the supply cables.
 - d) Any adjustments necessary to suit heavy duty starting, abnormal ambient conditions, etc, must be taken into consideration.

The selected switch must meet the requirements of all the selection criteria.

4. The data given in the above table is based on normal starting/ambient conditions, with run up times of up to 15 seconds, 12 starts per hour, use of only 3 back-up fuses on the supply side and where abnormal cable size is not required. The end user/specifier must ensure that the values stated in the table for maximum back-up fuse and switch terminal capacity are suitable for their application.

For heavy duty starting, frequent starting, long cable runs, etc, a larger switch may be necessary.