u.k. solenoid limited
A Company of the Kraus & Naimer Group

115 London Road, Newbury, Berks. RG14 2AH

Tel: 01635 45991 - Fax: 01635 37807 email: sales@uksol.co.uk www.uksolenoid.com

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

Switch Type	Max. S/D Motor Rating		Max.Back-up Fuse	Max. Terminal Capacity, sq mm	
	kW @ 380/440v 3 ph.	Amps	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 stating, long cable runs, etc, a larger switch may be necessary.