

### Fuse selection

D.O.L. start 7 x FLC for 10 secs		Assisted start 3.5 x FLC for 20 secs		Recommended fuse link rating
From	To	From	To	
0	0.7	0	1.4	2
0.8	1.1	1.5	2.1	4
1.2	1.6	2.2	3.1	6
1.7	2.6	3.2	5.4	10
2.7	5.2	5.5	10.0	16
5.3	7.5	10.1	14.3	20
7.6	9.9	14.4	18.3	25
10.0	11.6	18.4	22.6	32
11.7	15.7	22.7	29.2	35
15.8	19.3	29.3	35.0	40
19.4	22.9	35.1	42.8	50
23.0	28.6	42.9	55.0	63
28.7	41.4	55.1	74.2	80
41.5	54.3	74.3	97.3	100
54.4	71.5	97.4	125.0	125
71.6	94.4	125.1	160.0	160
94.5	127.0	160.1	180.0	200
127.1	164.0	180.1	225.0	250
164.1	166.0	225.1	250.0	315
186.1	257.0	250.1	325.0	355
257.1	307.0	325.1	350.0	400
307.1	371.0	350.1	425.0	450
371.1	415.0	425.1	450.0	500
415.1	472.0	450.1	525.0	560
472.1	535.0	525.1	550.0	630

### Motor ratings

Full load currents (FLC) of 3 phase induction motors at voltages shown

kw	hp	@240V		@380V		@415V		@440V		@550V	
		Amp	FLC	Amp	FLC	Amp	FLC	Amp	FLC	Amp	FLC
0.37	0.5	1.93	1.22	-	-	1.06	0.85	-	-	-	-
0.55	0.75	2.3	1.5	-	-	1.25	1.2	-	-	-	-
0.75	1	3.1	2	-	-	1.67	1.48	-	-	-	-
1.1	1.5	4.1	2.6	2.5	2.26	2.1	-	-	-	-	-
1.5	2	5.6	3.5	3.5	3.03	2.6	-	-	-	-	-
2.2	3	7.9	5	5	4.31	3.8	-	-	-	-	-
3	4	10.6	6.6	6.5	5.8	5.1	-	-	-	-	-
4	5.5	14	8.5	-	-	7.6	6.5	-	-	-	-
5.5	7.5	18.9	11.5	11	10.3	8.9	-	-	-	-	-
7.5	10	24.8	15.5	14	13.5	11.9	-	-	-	-	-
11	15	35.3	22	21	19.3	16.7	-	-	-	-	-
15	20	48.2	30	28	26.3	22.5	-	-	-	-	-
18.5	25	58.7	37	35	32	28.5	-	-	-	-	-
22	30	68	44	40	37.1	33	-	-	-	-	-
30	40	92.7	60	55	50.1	44	-	-	-	-	-
37	50	114	72	66	61.9	54	-	-	-	-	-
45	60	136	85	80	73.9	64.5	-	-	-	-	-
55	75	166	105	-	90.3	79	-	-	-	-	-
75	100	226	140	135	123	106	-	-	-	-	-
90	125	268	170	165	146	128	-	-	-	-	-
110	150	327	205	200	178	156	-	-	-	-	-
132	180	393	245	-	214	186	-	-	-	-	-
147	200	432	273	260	236	207	-	-	-	-	-
160	220	471	295	-	256	220	-	-	-	-	-
184	250	541	340	325	295	259	-	-	-	-	-
200	270	589	370	-	321	278	-	-	-	-	-
220	300	647	408	385	353	310	-	-	-	-	-
250	340	736	460	-	401	353	-	-	-	-	-
270	367	794	499	467	433	381	-	-	-	-	-

### Full load current (FLC) of 1 phase motor at 240V 50Hz

kw	hp	@240V	kw	hp	@240V
0.12	0.17	1.6	0.75	1.0	6.5
0.18	0.25	2.1	1.1	1.5	9.0
0.25	0.33	3.0	1.5	2.0	12.0
0.37	0.5	3.5	2.2	3.0	16.5
0.55	0.75	4.9	3.7	5.0	25.0

Note: Values of 1 and 3 phase full-load current indicated are typical, using average efficiencies and power factor of 4 pole machines.

### Motor Protection

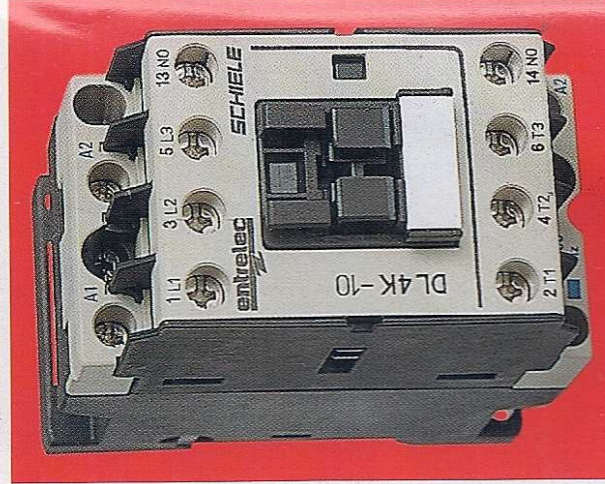
Thermal Overload Relay M23 K for use with 'K' Range Contactors

Type	D.O.L. Amp	Calibration range Star Delta Amp	List No.
M23 K	0.12 - 0.18	0.21 - 0.31	124550127
	0.18 - 0.28	0.31 - 0.49	124550227
	0.28 - 0.4	0.49 - 0.69	124550327
	0.4 - 0.63	0.69 - 1.0	124550427
	0.56 - 0.8	0.97 - 1.4	124550527
	0.83 - 1.0	1.0 - 1.7	124550627
	0.8 - 1.2	1.4 - 2	124550727
	1.0 - 1.5	1.7 - 2.6	124550827
	1.2 - 1.8	2 - 3	124550927
	1.5 - 2.3	2.6 - 4	124551027
	2.3 - 3.5	3 - 5	124551127
	3.5 - 5	4 - 6	124551227
4 - 6.3	5 - 7	124551327	
5 - 7	6 - 8.7	124551427	
5.6 - 8	7 - 11	124551527	
7 - 10	8.7 - 12	124551627	
8 - 12.5	9.7 - 14	124551727	
10 - 15	12 - 17.3	124551827	
11 - 17	14 - 21.7	124551927	
15 - 23	17.3 - 26	124552027	
	19 - 29	124552127	
	26 - 40	124552227	

### Thermal Overload Relay M40 K for use with 'K' Range Contactors

Type	D.O.L. Amp	Calibration range Star Delta Amp	List No.
M40 K	11 - 17	19 - 29	124563427
	16 - 25	28 - 43	124563527
	20 - 32	35 - 55	124563627
	25 - 40	43 - 69	124563727
		15 kW	30 kW

Note: Overload Relays should be ordered separately.



# SELECTION TABLE

CONTACTORS AND MOTOR PROTECTION