Table 2-9

Motor current ratings for three-phase motors (typical values for squirrel-cage type)

Smallest possible short-circuit fuse (Service category gG[1]) for three-phase motors. The maximum value is governed by the switching device or motor relay.

Motor output data			Rated currents at 230 V		400 V		500 V		600 V	
			Motor	Fuse	Motor	Fuse	Motor	Fuse	Motor	Fuse
kW	cos φ	η %	A	A	A	A	A	A	A	A
0.25	0.7	62	1.4	4	0.8	2	0.6	2	—	—
0.37	0.72	64	2.0	4	1.2	4	0.9	2	0.7	2
0.55	0.75	69	2.7	4	1.5	4	1.2	4	0.9	2
0.75	0.8	74	3.2	6	1.8	4	1.5	4	1.1	2
1.1	0.83	77	4.3	6	2.5	4	2	4	1.5	2
1.5	0.83	78	5.8	16	3.3	6	2.6	4	2	4
2.2	0.83	81	8.2	20	4.7	10	3.7	10	2.9	6
3	0.84	81	11.1	20	6.4	16	5	10	3.5	6
4	0.84	82	14.6	25	8.4	20	6.4	16	4.9	10
5.5	0.85	83	19.6	35	11.3	25	8.6	20	6.7	16
7.5	0.86	85	25.8	50	14.8	35	11.5	25	9	16
11	0.86	87	36.9	63	21.2	35	17	35	13	25
15	0.86	87	50	80	29	50	22.5	35	17.5	25
18.5	0.86	88	61	100	35	63	27	50	21	35
22	0.87	89	71	100	41	63	32	63	25	35
30	0.87	90	96	125	55	80	43	63	33	50
37	0.87	90	119	200	68	100	54	80	42	63
45	0.88	91	141	225	81	125	64	100	49	63
55	0.88	91	172	250	99	160	78	125	60	100
75	0.88	91	235	350	135	200	106	160	82	125
90	0.88	92	279	355	160	225	127	200	98	125
110	0.88	92	341	425	196	250	154	225	118	160
132	0.88	92	409	600	235	300	182	250	140	200
160	0.88	93	491	600	282	355	220	300	170	224
200	0.88	93	613	800	353	425	283	355	214	300
250	0.88	93	—	—	441	500	355	425	270	355
315	0.88	93	—	—	556	630	444	500	337	400
400	0.89	96	—	—	—	—	534	630	410	500
500	0.89	96	—	—	—	—	—	—	515	630