

Contactors Cross Reference Chart

AC-3 kW	AC3 Amps	hp	METASOL	METASOL OVERLOAD	EATON	G-E	ABB	SIEMENS	SPRECHER + SCHUH	ALLEN-BRADLEY (ROCKWELL)	SCHNEIDER
4	9	5	GMC-9M	GTK-12M	DILEM	MC1	B6	3TF2	CA8-9	100-K09	LC1-K09
4	9	5	MC-9B	MT-32	DILM9	CL00	AF09	3RT2016	CA7-9	100-C09	LC1-D09
5.5	12	7.5	MC-12B	MT-32	DILM12	CL01	AF12	3RT2017	CA7-12	100-C12	LC1-D12
7.5	18	10	MC-18B	MT-32	DILM15	CL02	AF16	3RT2025	CA7-16	100-C16	LC1-D18
11	22	15	MC-22B	MT-32	DILM25	CL03/CL25	AF26	3RT2026	CA7-23	100-C23	LC1-D25
15	32	20	MC-32A	MT-32	DILM32	CL04	AF30	3RT2027	CA7-30	100-C30	LC1-D32
18.5	40	25	MC-40A	MT-32	DILM40	CL45	AF38	3RT2035	CA7-37	100-C37	LC1-D38
22	50	30	MC-50A	MT-63	DILM50	CL06	AF52	3RT2036	CA7-43	100-C43	LC1-D40
30	65	40	MC-65A	MT-63	DILM65	CL07	AF65	3RT2037	CA7-60	100-C60	LC1-D50
37	75	50	MC-75A	MT-95	DILM80	CL08	AF80	3RT2038	CA7-72	100-C72	LC1-D65
45	85	60	MC-85A	MT-95	DILM95	CL09	AF96	3RT2046	CA7-85	100-C85	LC1-D80
55	100	80	MC-100A	MT-95	DILM 115	CL10	AF116	3RT1054	CA7-97	100-E116	LC1-D115
75	150	100	MC-150A	MT-150	DILM150	CK75	AF140	3RT1055	CA9-116	100-E146	LC1-D150
90	185	120	MC-185A	MT-225	DILM185	CK08	AF190	3RT1056	CA9-190	100-E190	LC1-D188

This chart serves as a guide only. Technical specifications of products other than Metasol should be checked against the relevant manufacturers technical information. All part numbers listed in the above chart are relevant to the manufacturers current range as sourced from various media sources at 09/2020

All kW ratings approximate at 415V

Motor Rating Chart

Rated motor currents for 3 phase motors at 230V AC and 400V AC
The rated motor currents are normally ventilated and internally enclosed fan cooled 3 phase motors at 1500 rpm

Motor Rating kW	230V			400V		
	Rated Motor Current A	Starting Direct A	Star / Delta A	Rated Motor Current A	Starting Direct A	Star / Delta A
0.06	0.37	2	-	0.21	2	-
0.09	0.54	2	-	0.31	2	-
0.12	0.72	4	2	0.41	2	-
0.18	1.04	4	2	0.6	2	-
0.25	1.4	4	2	0.8	4	2
0.37	2	6	4	1.1	4	2
0.55	2.7	10	4	1.5	4	2
0.75	3.2	10	4	1.9	6	4
1.1	4.6	10	6	2.6	6	4
1.5	6.3	16	10	3.6	6	4
2.2	8.7	20	10	5	10	6
3	11.5	25	16	6.6	16	10
4	14.8	32	16	8.5	20	10
5.5	19.6	32	25	11.3	25	16
7.5	26.4	50	32	15.2	32	16
11	38	80	40	21.7	40	25
15	51	100	63	29.3	63	32
18.5	63	125	80	36	63	40

Motor Rating kW	230V			400V		
	Rated Motor Current A	Starting Direct A	Star / Delta A	Rated Motor Current A	Starting Direct A	Star / Delta A
22	71	125	80	41	80	50
30	96	200	100	55	100	63
37	117	200	125	68	125	80
45	141	250	160	81	160	100
55	173	250	200	99	200	125
75	233	315	250	134	200	160
90	279	400	315	161	250	200
110	342	500	400	196	315	200
132	401	630	500	231	400	250
160	486	630	630	279	400	315
200	607	800	630	349	500	400
250	-	-	-	437	630	500
315	-	-	-	544	800	630
400	-	-	-	683	1000	800
450	-	-	-	769	1000	800

DOL starting: Maximum starting current 6 x rated motor current / maximum starting time : 5 sec
Star / Delta starting: Maximum starting current 2 x rated motor current / maximum starting time : 15 sec.
Set overload in the phase lead to 0.58 x rated motor current

Approximate kW to hp Conversions	kW	0.37	0.55	0.75	1.1	1.5	2.2	3	4	5.5	7.5	11	15	18.5	22	30	45	75	110	160	200
	hp	0.5	0.75	1	1.5	2	3	4	5	7.5	10	15	20	25	30	40	60	100	145	215	260
Approximate F.L.C. at 415V	A	1.2	1.6	1.8	2.6	3.5	5	6.2	7.5	11	14	21	28	35	40	55	80	135	200	275	325

IP Ratings Chart

PROTECTION AGAINST SOLIDS		PROTECTION AGAINST LIQUIDS			
TEST	PROTECTION	TEST	PROTECTION		
X	No test applied	No specific protection.	X	No test applied	No specific protection.
0	No test applied	Inherent degree of protection.	0	No test applied	Inherent degree of protection.
1	Protected against solid objects larger than 50mm (eg. accidental contact with hand).	Protected against drops of water falling vertically.	1	Protected against drops of water falling at up to 15° from the vertical.	
2	Protected against solid objects larger than 12mm (eg. contact with finger).	Protected against spraying water at up to 60° from the vertical.	2	Protected against splashing water from all directions.	
3	Protected against solid objects larger than 2.5mm (eg. tools and wires).	Protected against jets of water from all directions.	3	Protected against jets of water of similar force to heavy seas.	
4	Protected against solid objects larger than 1mm (eg. fine tools and wires).	Protected against the effects of immersion.	4	Protected against the effects of submersion.	
5	Protected against quantities of dust that could interfere with satisfactory operation.		5		
6	Completely protected against dust.		6		
			7		
			8		

For internal use only.