

0.06 to 250 kW at 400/415 V: type 1 coordination

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3									Circuit-breaker			Contactor	Thermal overload relay	
400/415 V			440 V			500 V			Reference	Rating	I _{rm} (1)	Reference (2)	Reference	Setting range
P	I _e	I _q	P	I _e	I _q	P	I _e	I _q		A	A			A
kW	A	kA	kW	A	kA	kW	A	kA						
0.06	0.22	50	0.06	0.19	50	–	–	–	GV2 LE03	0.4	5	LC1 K06	LR2 K0302	0.16...0.23
–	–	–	0.09	0.28	50	–	–	–	GV2 LE03	0.4	5	LC1 K06	LR2 K0303	0.23...0.36
0.09	0.36	50	0.12	0.37	50	–	–	–	GV2 LE03	0.4	5	LC1 K06	LR2 K0304	0.36...0.54
0.12	0.42	50	–	–	–	–	–	–	GV2 LE04	0.63	8	LC1 K06	LR2 K0304	0.36...0.54
0.18	0.6	50	0.18	0.55	50	–	–	–	GV2 LE04	0.63	8	LC1 K06	LR2 K0305	0.54...0.8
–	–	–	0.25	0.76	50	–	–	–	GV2 LE05	1	13	LC1 K06	LR2 K0305	0.54...0.8
0.25	0.88	50	–	–	–	–	–	–	–	–	–	–	–	–
0.37	1	50	0.37	1	50	0.37	1	50	GV2 LE05	1	13	LC1 K06	LR2 K0306	0.8...1.2
0.55	1.5	50	0.55	1.36	50	0.55	1.21	50	GV2 LE06	1.6	22.5	LC1 K06	LR2 K0307	1.2...1.8
–	–	–	–	–	–	0.75	1.5	50	–	–	–	–	–	–
–	–	–	0.75	1.68	50	–	–	–	GV2 LE07	2.5	33.5	LC1 K06	LR2 K0307	1.2...1.8
0.75	2	50	–	–	–	–	–	–	–	–	–	–	–	–
1.1	2.5	50	1.1	2.37	50	1.1	2	50	GV2 LE07	2.5	33.5	LC1 K06	LR2 K0308	1.8...2.6
1.5	3.5	50	1.5	3.06	50	1.5	2.6	50	GV2 LE08	4	51	LC1 K06	LR2 K0310	2.6...3.7
–	–	–	–	–	–	2.2	3.8	50	GV2 LE08	4	51	LC1 K06	LR2 K0312	3.7...5.5
2.2	5	50	2.2	4.4	50	3	5	50	GV2 LE10	6.3	78	LC1 K06	LR2 K0312	3.7...5.5
–	–	–	3	5.77	50	–	–	–	GV2 LE10	6.3	78	LC1 K06	LR2 K0314	5.5...8
–	–	–	4	7.9	15	–	–	–	GV2 LE14	10	138	LC1 K09	LR2 K0314	5.5...8
3	6.5	50	–	–	–	4	6.5	10	GV2 LE14	10	138	LC1 K09	LR2 K0314	5.5...8
4	8.4	50	–	–	–	–	–	–	GV2 LE14	10	138	LC1 K09	LR2 K0316	8...11.5
5.5	11	15	5.5	10.4	8	7.5	12	6	GV2 LE16	14	170	LC1 K12	LR2 K0321	10...14
–	–	–	7.5	13.7	8	9	13.9	6	GV2 LE16	14	170	LC1 D18	LRD 21	12...18
7.5	14.8	15	9	16.9	8	–	–	–	GV2 LE20	18	223	LC1 D18	LRD 21	12...18
9	18.1	15	–	–	–	11	18.4	4	GV2 LE22	25	327	LC1 D25	LRD 22	16...24
11	21	15	11	20.1	6	15	23	4	GV2 LE22	25	327	LC1 D25	LRD 22	16...24
15	28.5	10	15	26.5	6	18.5	26.5	4	GV2 LE32	32	416	LC1 D32	LRD 32	23...32
18.5	35	50	18.5	32.5	50	–	–	–	GV3 L40	40	560	LC1 D38	LRD 35	30...40
–	–	–	–	–	–	22	33	50	GV3 L40	40	560	LC1 D40	LRD 3355	30...40
–	–	–	22	39	50	–	–	–	GV3 L50	50	700	LC1 D40	LRD 3357	37...50

(1) I_{rm}: setting current of the magnetic trip.

(2) For reversing operation, replace the prefix LC1 with LC2.

0.06 to 250 kW at 400/415 V: type 1 coordination (continued)

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3									Circuit-breaker			Contactor	Thermal overload relay	
400/415 V			440 V			500 V			Reference	Rating	I _{rm} (1)	Reference (2)	Reference	Setting range
P	I _e	I _q	P	I _e	I _q	P	I _e	I _q		A	A			A
kW	A	kA	kW	A	kA	kW	A	kA						
22	42	50	-	-	-	30	40	50	GV3 L50	50	700	LC1 D50	LRD 3357	37...50
30	57	50	30	51,5	50	-	-	-	GV3 L65	65	910	LC1 D65	LRD 3359	48...65
-	-	-	37	64	65	37	55	50	GV3 L65	65	910	LC1 D65	LRD 3359	48...65
-	-	-	-	-	-	45	65	50	GV3 L65	65	910	LC1 D80	LRD 3361	48...65
37	69	70	45	76	65	55	80	25	NS80HMA	80	1040	LC1 D80	LRD 3363	63...80
45	81	(3)	-	-	-	-	-	-	NS100●MA (3)	100	1300	LC1 D95	LRD 3365	80...104
-	-	-	-	-	-	50	90	(3)	NS100●MA (3)	100	1200	LC1 D115	LRD 4365	80...104
-	-	-	-	-	-	75	105	(3)	NS160●MA (3)	150	1500	LC1 D115	LRD 4367	95...120
55	100	(3)	-	-	-	-	-	-	NS160●MA (3)	150	1350	LC1 D115	LRD 4367	95...120
75	135	(3)	75	125	(3)	90	129	(3)	NS160●MA (3)	150	1800	LC1 D150	LRD 4369	110...140
-	-	-	90	146	(3)	-	-	-	NS160●MA (3)	150	1950	LC1 F185	LR9 F5371	132...220
90	165	(3)	-	-	-	110	156	(3)	NS250●MA (3)	220	2200	LC1 F185	LR9 F5371	132...220
110	200	(3)	-	-	-	-	-	-	NS250●MA (3)	220	2640	LC1 F225	LR9 F5371	132...220
-	-	-	110	178	(3)	-	-	-	NS250●MA (3)	220	2420	LC1 F225	LR9 F5371	132...220
-	-	-	-	-	-	132	187	(3)	NS250●MA (3)	220	2640	LC1 F265	LR9 F5371	132...220
-	-	-	132	215	(3)	-	-	-	NS250●MA (3)	220	2860	LC1 F265	LR9 F5371	132...220
132	240	(3)	-	-	-	-	-	-	NS400●MA (3)	320	3200	LC1 F265	LR9 F7375	200...330
-	-	-	-	-	-	160	220	(3)	NS400●MA (3)	320	2860	LC1 F265	LR9 F7375	200...330
-	-	-	160	256	(3)	-	-	-	NS400●MA (3)	320	3520	LC1 F330	LR9 F7375	200...330
160	285	(3)	200	321	(3)	-	-	-	NS400●MA (3)	320	4160	LC1 F330	LR9 F7375	200...330
-	-	-	-	-	-	200	281	(3)	NS400●MA (3)	320	3840	LC1 F330	LR9 F7375	200...330
-	-	-	-	-	-	220	310	(3)	NS400●MA (3)	320	4160	LC1 F400	LR9 F7379	300...500
200	352	(3)	220	353	(3)	-	-	-	NS630●MA (3)	500	5000	LC1 F400	LR9 F7379	300...500
-	-	-	250	401	(3)	-	-	-	NS630●MA (3)	500	5550	LC1 F400	LR9 F7379	300...500
-	-	-	-	-	-	250	360	(3)	NS630●MA (3)	500	5000	LC1 F400	LR9 F7379	300...500
220	388	(3)	-	-	-	-	-	-	NS630●MA (3)	500	5500	LC1 F400	LR9 F7379	300...500
250	437	(3)	280	470	(3)	315	445	(3)	NS630●MA (3)	500	6000	LC1 F500	LR9 F7379	300...500
-	-	-	-	-	-	355	500	(3)	NS630●MA (3)	500	6500	LC1 F500	LR9 F7381	380...630

(1) I_{rm}: setting current of the magnetic trip.

(2) For reversing operation, replace the prefix LC1 with LC2.

(3) Products marketed under the Merlin Gerin brand. Reference to be completed by replacing the ● with the breaking performance code:

Breaking performance I _q (kA)	NS100●MA		NS160●MA and NS250●MA		NS400●MA and NS630●MA	
400/415 V	25	70	36	70	70	130
440 V	25	65	35	65	65	130
500 V	18	50	30	50	50	70
660/690 V	8	10	8	10	20	35
Code	N	H	N	H	H	L

0.06 to 250 kW at 400/415 V: type 2 coordination

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3									Circuit-breaker			Contactor	Thermal overload relay	
400/415 V			440 V			500 V			Reference	Rating	I _{rm} (1)	Reference (2)	Reference	Setting range
P	I _e	I _q	P	I _e	I _q	P	I _e	I _q		A	A			A
kW	A	kA	kW	A	kA	kW	A	kA						
0.06	0.22	130	0.06	0.19	130	-	-	-	GV2 L03 or LE03	0.4	5	LC1 D09	LRD 02	0.16...0.25
0.09	0.36	130	0.09	0.28	130	-	-	-	GV2 L03 or LE03	0.4	5	LC1 D09	LRD 03	0.25...0.40
-	-	-	0.12	0.37	130	-	-	-						
0.12	0.42	130	-	-	-	-	-	-	GV2 L04 or LE04	0.63	8	LC1 D09	LRD 04	0.4...0.63
0.18	0.6	130	0.18	0.55	130	-	-	-						
0.25	0.88	130	0.25	0.76	130	-	-	-	GV2 L05 or LE05	1	13	LC1 D09	LRD 05	0.63...1
0.37	0.98	130	0.37	0.99	130	-	-	-						
-	-	-	-	-	-	0.37	1	130	GV2 L05 or LE05	1	13	LC1 D09	LRD 06	1...1.7
0.55	1.6	130	-	-	-	0.55	1.21	130	GV2 L06 or LE06	1.6	22.5	LC1 D09	LRD 06	1...1.7
-	-	-	0.55	1.36	130	0.75	1.5	130						
0.75	2	130	0.75	1.68	130	1.1	2	130	GV2 L07 or LE07	2.5	33.5	LC1 D09	LRD 07	1.6...2.5
1.1	2.5	130	1.1	2.37	130	1.5	2.6	130						
1.5	3.5	130	-	-	-	2.2	3.8	130	GV2 L08 or LE08	4	51	LC1 D09	LRD 08	2.5...4
-	-	-	1.5	3.06	130	-	-	-	GV2 L08 or LE08	4	51	LC1 D09	LRD 10	4...6
2.2	5	130	-	-	-	-	-	-						
-	-	-	-	-	-	3	5	13	GV2 L10 or LE10	6.3	78	LC1 D09	LRD 10	4...6
-	-	-	2.2	4.42	50	-	-	-						
-	-	-	3	5.77	50	3	5	50	GV2 LE10	6.3	78	LC1 D09	LRD 10	4...6
-	-	-	2.2	4.42	130	-	-	-						
-	-	-	3	5.77	130	3	5	130	GV2 L10	6.3	78	LC1 D09	LRD 10	4...6
3	6.5	130	-	-	-	-	-	-	GV2 L14 or LE14	10	10	LC1 D09	LRD 12	5.5...8
-	-	-	-	-	-	4	6.5	10	GV2 LE14	10	138	LC1 D12	LRD 12	5.5...8
-	-	-	-	-	-	4	6.5	50	GV2 L14	10	138	LC1 D12	LRD 12	5.5...8
4	8.4	130	-	-	-	-	-	-	GV2 L14 or LE14	10	138	LC1 D09	LRD 14	7...10
-	-	-	4	7.9	15	-	-	-	GV2 LE14	10	138	LC1 D09	LRD 14	7...10
-	-	-	4	7.9	130	-	-	-	GV2 L14	10	138	LC1 D09	LRD 14	7...10
-	-	-	-	-	-	5.5	9	10	GV2 LE14	10	138	LC1 D09	LRD 14	7...10
-	-	-	-	-	-	5.5	9	50	GV2 L14	10	138	LC1 D09	LRD 14	7...10
5.5	11	130	5.5	10.4	50	7.5	12	42	GV2 L16	14	170	LC1 D25	LRD 16	9...13
-	-	-	7.5	13.7	50	-	-	-	GV2 L16	14	170	LC1 D25	LRD 21	12...18
7.5	14.8	50	9	16.9	20	9	13.9	42	GV2 L20	18	223	LC1 D25	LRD 21	12...18
9	18.1	50	-	-	-	-	-	-						
11	21	50	11	20.1	20	-	-	-	GV2 L22	25	327	LC1 D25	LRD 22	16...24
-	-	-	-	-	-	11	18.4	10						
-	-	-	-	-	-	15	23	10	GV2 L22	25	327	LC1 D32	LRD 22	16...24
15	28.5	50	15	26.5	20	18.5	28.5	10	GV2 L32	32	416	LC1 D40	LRD 3353	23...32
-	-	-	-	-	-	22	33	50	GV3 L40	40	560	LC1 D40	LRD 3353	30...40

(1) I_{rm}: setting current of the magnetic trip.

(2) For reversing operation, replace the prefix LC1 with LC2.

0.06 to 250 kW at 400/415 V: type 2 coordination (continued)

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3									Circuit-breaker			Contactor		Thermal overload relay	
400/415 V			440 V			500 V			Reference	Rating	I _{rm} (1)	Reference (2)	Reference	Setting range	
P	I _e	I _q	P	I _e	I _q	P	I _e	I _q		A	A			A	
kW	A	kA	kW	A	kA	kW	A	kA							
18.5	35	50	18.5	32.5	50	–	–	–	GV3 L40	40	560	LC1 D40	LRD 3355	30...40	
22	42	50	22	39	50	30	45	50	GV3 L50	50	700	LC1 D50	LRD 3357	37...50	
–	–	–	30	51.5	50	–	–	–	–	–	–	–	–	–	
30	57	50	37	64	50	37	55	50	GV3 L65	65	910	LC1 D65	LRD 3359	48...65	
–	–	–	–	–	–	45	65	50	GV3 L65	65	910	LC1 D80	LRD 3361	48...65	
37	69	70	45	76	65	–	–	–	NS80HMA	80	1000	LC1 D80	LRD 3363	63...80	
–	–	–	–	–	–	55	80	(3)	NS100●MA (3)	100	1040	LC1 D80	LRD 3363	63...80	
45	81	(3)	55	90	(3)	–	–	–	NS100●MA (3)	100	1300	LC1 D115	LR9 D5367	60...100	
55	100	(3)	–	–	–	–	–	–	NS160●MA (3)	150	1500	LC1 D115	LR9 D5369	90...150	
–	–	–	–	–	–	75	105	(3)	NS160●MA (3)	150	1050	LC1 D115	LR9 D5369	90...150	
75	135	(3)	75	125	(3)	–	–	–	NS160●MA (3)	150	1950	LC1 D150	LR9 D5369	90...150	
–	–	–	90	146	(3)	–	–	–	NS160●MA (3)	150	1950	LC1 D150	LR9 D5369	90...150	
–	–	–	–	–	–	90	129	(3)	NS160●MA (3)	150	1200	LC1 D150	LR9 D5369	90...150	
90	165	(3)	110	178	(3)	–	–	–	NS250●MA (3)	220	2420	LC1 F185	LR9 F5371	132...220	
–	–	–	–	–	–	110	156	(3)	NS250●MA (3)	220	1540	LC1 F185	LR9 F5371	132...220	
110	200	(3)	–	–	–	–	–	–	NS250●MA (3)	220	2860	LC1 F225	LR9 F5371	132...220	
–	–	–	132	215	(3)	132	187	(3)	NS250●MA (3)	220	2200	LC1 F265	LR9 F5371	132...220	
132	240	(3)	160	256	(3)	–	–	–	NS400●MA (3)	320	3520	LC1 F265	LR9 F7375	200...330	
–	–	–	–	–	–	160	220	(3)	NS400●MA (3)	320	2200	LC1 F265	LR9 F7375	200...330	
160	285	(3)	–	–	–	–	–	–	NS400●MA (3)	320	4000	LC1 F330	LR9 F7375	200...330	
–	–	–	200	321	(3)	–	–	–	NS400●MA (3)	320	4000	LC1 F330	LR9 F7379	300...500	
–	–	–	–	–	–	200	281	(3)	NS400●MA (3)	320	3500	LC1 F400	LR9 F7375	200...330	
–	–	–	–	–	–	220	310	(3)	NS400●MA (3)	320	3500	LC1 F400	LR9 F7379	300...500	
–	–	–	220	353	(3)	–	–	–	–	–	–	–	–	–	
200	352	(3)	250	401	(3)	–	–	–	NS630●MA (3)	500	5500	LC1 F400	LR9 F7379	300...500	
–	–	–	–	–	–	250	360	(3)	–	–	–	–	–	–	
–	–	–	–	–	–	315	445	(3)	NS630●MA (3)	500	4500	LC1 F500	LR9 F7379	300...500	
220	388	(3)	–	–	–	–	–	–	–	–	–	–	–	–	
250	437	(3)	–	–	–	–	–	–	NS630●MA (3)	500	6250	LC1 F500	LR9 F7379	300...500	
–	–	–	–	–	–	355	500	(3)	NS630●MA (3)	500	5000	LC1 F630	LR9 F7381	380...630	

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(2) For reversing operation, replace the prefix LC1 with LC2.

(3) Products marketed under the Merlin Gerin brand. Reference to be completed by replacing the ● with the breaking performance code:

Breaking performance I _q (kA)	NS100●MA		NS160●MA and NS250●MA		NS400●MA and NS630●MA	
400/415 V	25	70	36	70	70	130
440 V	25	65	35	65	65	130
500 V	18	50	30	50	50	70
660/690 V	8	10	8	10	20	35
Code	N	H	N	H	H	L