

TeSys motor starters - open version

D.O.L. starters with circuit breaker and overload protection built into the circuit breaker

0.06 to 110 kW at 400/415 V: type 1 coordination											
Standard power ratings of 3-phase motors 50/60 Hz in category AC-3									Circuit breaker Reference	Setting range of thermal trips	Contactor Reference ⁽²⁾
400/415 V			440 V			500 V					
P	I _e	I _q ⁽¹⁾	P	I _e	I _q ⁽¹⁾	P	I _e	I _q ⁽¹⁾			
kW	A	kA	kW	A	kA	kW	A	kA		A	
0.06	0.2	50	0.06	0.19	50	—	—	—	GV2ME02	0.16...0.25	LC1K06 or LC1D09
0.09	0.3	50	0.09 0.12	0.28 0.37	50 50	—	—	—	GV2ME03	0.25...0.40	LC1K06 or LC1D09
0.12	0.44	50	—	—	—	—	—	—	GV2ME04	0.40...0.63	LC1K06 or LC1D09
0.18	0.6	50	0.18	0.55	50	—	—	—	GV2ME05	0.63...1	LC1K06 or LC1D09
0.25	0.85	50	0.25	0.76	50	—	—	—	GV2ME06	1...1.6	LC1K06 or LC1D09
0.37	1.1	50	0.37	0.99	50	—	—	—	GV2ME06	1...1.6	LC1K06 or LC1D09
—	—	—	—	—	—	0.37	0.88	50	GV2ME06	1...1.6	LC1K06 or LC1D09
0.55	1.5	50	0.55	1.36	50	0.55	1.2	50	GV2ME06	1...1.6	LC1K06 or LC1D09
—	—	—	—	—	—	0.75	1.5	50	GV2ME06	1...1.6	LC1K06 or LC1D09
0.75	1.9	50	0.75	1.68	50	—	—	—	GV2ME07	1.6...2.5	LC1K06 or LC1D09
—	—	—	1.1	2.37	50	1.1	2.2	50	GV2ME08	2.5...4	LC1K06 or LC1D09
1.1	2.7	50	—	—	—	1.5	2.9	50	GV2ME10	4...6.3	LC1K06 or LC1D09
1.5	3.6	50	1.5	3.06	50	2.2	3.9	50	GV2ME14	6...10	LC1K09 or LC1D09
2.2	4.9	50	2.2	4.42	50	—	—	—	GV2ME16	9...14	LC1K12 or LC1D12
—	—	—	3	5.77	50	3	5.2	50	GV2ME20	13...18	LC1D18
3	6.5	50	—	—	—	4	6.8	10	GV2ME21	17...23	LC1D25
4	8.5	50	4	7.9	15	5.5	9.2	10	GV2ME22	20...25	LC1D25
5.5	11.5	15	5.5	10.4	8	7.5	12.4	6	GV2ME32	24...32	LC1D32
7.5	15.5	15	7.5	13.7	8	9	13.9	6	GV3P40	30...40	LC1D40A
—	—	—	9	16.9	8	—	—	—	GV3P50	37...50	LC1D50A
9	18.1	15	11	20.1	6	11	17.6	4	GV3P65	48...65	LC1D65A
11	22	15	—	—	—	15	23	4	GV3P73	62...73	LC1D80A
15	29	10	15	26.5	6	18.5	28	4	GV4P80	40...80	LC1D65A
18.5	35	50	18.5	32.8	50	22	33	10	GV4P115	65...115	LC1D95
22	41	50	22	39	50	30	44	10	GV4P115	65...115	LC1D115
30	55	50	30	51.5	50	37	53	10	GV7RE150	90...150	LC1D150
37	66	50	—	—	—	—	—	—	GV7RE150	90...150	LC1F185
—	—	—	37	64	70	45	64	30	GV7RE220	132...220	LC1F185
37	66	100	45	76	70	55	78	30	GV7RE220	132...220	LC1F265
45	80	100	—	—	—	—	—	—	GV7RE220	132...220	LC1F225
55	97	100	55	90	70	75	106	30			
75	132	35	75	125	35	90	128	30			
—	—	—	90	146	35	—	—	—			
90	160	35	—	—	—	110	156	30			
—	—	—	—	—	—	132	184	30			
—	—	—	110	178	35	160	224	30			
110	195	35	132	215	35	—	—	—			

(1) The breaking performance of circuit breakers **GV2 ME** can be increased by adding a current limiter **GV1 L3**, see page 24509/5.

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

TeSys motor starters - open version

D.O.L. starters with circuit breaker and overload protection built into the circuit breaker

0.06 to 110 kW at 400/415 V: type 2 coordination											
Standard power ratings of 3-phase motor or s 50/60 Hz in category AC-3									Circuit breaker Reference	Setting range of thermal trips	Contactor Reference ⁽²⁾
400/415 V			440 V			500 V			A	A	
P	I _e	I _q ⁽¹⁾	P	I _e	I _q ⁽¹⁾	P	I _e	I _q ⁽¹⁾			
kW	A	kA	kW	A	kA	kW	A	kA			
0.06	0.2	130	0.06	0.19	130	—	—	—	GV2P02 or GV2ME02	0.16...0.25	LC1D09
—	—	—	0.09	0.28	130	—	—	—	GV2P03 or GV2ME03	0.25...0.4	LC1D09
0.09	0.3	130	0.12	0.37	130	—	—	—	—	—	—
0.12	0.44	130	—	—	—	—	—	—	GV2P04 or GV2ME04	0.4...0.63	LC1D09
0.18	0.6	130	0.18	0.55	130	—	—	—	—	—	—
0.25	0.85	130	0.25	0.76	130	—	—	—	GV2P05 or GV2ME05	0.63...1	LC1D09
0.37	1.1	130	0.37	0.99	130	—	—	—	—	—	—
—	—	—	—	—	—	0.37	0.88	130	GV2P06 or GV2ME06	1...1.6	LC1D09
0.55	1.5	130	0.55	1.36	130	0.55	1.2	130	—	—	—
—	—	—	—	—	—	0.75	1.5	130	GV2P06 or GV2ME06	1...1.6	LC1D09
—	—	—	—	—	—	—	—	—	—	—	—
0.75	1.9	130	0.75	1.68	130	—	—	—	GV2P07 or GV2ME07	1.6...2.5	LC1D09
—	—	—	1.1	2.37	130	1.1	2.2	130	—	—	—
1.1	2.7	130	—	—	—	1.5	2.9	130	GV2P08 or GV2ME08	2.5...4	LC1D09
1.5	3.6	130	1.5	3.06	130	2.2	3.9	130	—	—	—
—	—	—	—	—	—	—	—	—	GV2P10 or GV2ME10	4...6.3	LC1D09
2.2	4.9	130	—	—	—	—	—	—	—	—	—
—	—	—	2.2	4.42	50	—	—	—	GV2ME10	4...6.3	LC1D09
—	—	—	3	5.77	50	3	5.2	50	—	—	—
—	—	—	2.2	4.42	130	—	—	—	GV2P10	4...6.3	LC1D09
—	—	—	3	5.77	130	3	5.2	130	—	—	—
3	6.5	130	—	—	—	—	—	—	GV2P14 or GV2ME14	6...10	LC1D09
4	8.5	130	—	—	—	—	—	—	—	—	—
—	—	—	4	7.9	15	4	6.8	10	GV2ME14	6...10	LC1D09
—	—	—	—	—	—	5.5	9.2	10	—	—	—
—	—	—	—	—	—	4	6.8	50	GV2P14	6...10	LC1D12
—	—	—	4	7.9	130	5.5	9.2	50	—	—	—
5.5	11.5	130	5.5	10.4	50 or 8	7.5	12.4	42 or 6	GV2P16 or GV2ME16	9...14	LC1D25
—	—	—	7.5	13.7	50 or 8	9	13.9	42 or 6	—	—	—
7.5	15.5	50 or 15	9	16.9	20 or 8	—	—	—	GV2P20 or GV2ME20	13...18	LC1D25
9	18.1	50 or 15	11	20.1	20 or 8	11	17.6	10 or 6	GV2P21 or GV2ME21	17...23	LC1D25
11	22	50 or 15	—	—	—	—	—	—	GV2P22 or GV2ME22	20...25	LC1D25
—	—	—	—	—	—	15	23	10 or 6	GV2P22	20...25	LC1D32
15	29	50 or 10	15	26.5	20 or 6	18.5	28	10 or 4	GV2P32 or GV2ME32	25...40	LC1D32
18.5	35	50	—	—	—	—	—	—	GV3P40	30...40	LC1D50A
—	—	—	18.5	32.8	50	22	33	10	GV3P40	30...40	LC1D65A
22	41	50	—	—	—	—	—	—	GV3P50	37...50	LC1D50A
—	—	—	22	39	50	30	44	10	GV3P50	37...50	LC1D65A
30	55	50	30	51.5	50	—	—	—	GV3P65	48...65	LC1D65A
—	—	—	—	—	—	37	53	10	GV3P65	48...65	LC1D65A
37	66	50	—	—	—	—	—	—	GV3P73	62...73	LC1D80A
—	—	—	37	64	70	—	—	—	GV4P80	40...80	LC1D65A
37	66	100	45	76	70	(3)	(3)	(3)	GV4P80	40...80	LC1D80
45	80	100	55	90	70	(3)	(3)	(3)	GV4P115	65...115	LC1D115/F115
55	97	100	—	—	—	(3)	(3)	(3)	—	—	—
55	97	70	75	125	65	—	—	—	GV7RS150	90...150	LC1D150
75	132	70	90	146	65	90	128	50	—	—	—
90	160	70	110	178	65	110	156	50	GV7RS220	132...220	LC1F185
110	195	70	132	215	65	—	—	—	GV7RS220	132...220	LC1F225
—	—	—	—	—	—	132	184	50	GV7RS220	132...220	LC1F265
—	—	—	—	—	—	160	224	50	—	—	—

⁽¹⁾ The breaking performance of circuit breakers GV2 P can be increased by adding a current limiter GV1 L3, see page 24509/5.⁽²⁾ Combinations with circuit breaker GV2 ME are type 2 coordinated only at 400/415 V and 440 V.⁽³⁾ Please consult your regional sales office.

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D.O.L. starters with circuit breaker, contactor and thermal overload relay

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						
kW	A	kA	kW	A	kA	kW	A	kA		A	A			A
0.06	0.2	50	0.06	0.19	50	–	–	–	GV2LE03	0.4	5	LC1K06	LR2K0302	0.16...0.23
–	–	–	0.09	0.28	50	–	–	–	GV2LE03	0.4	5	LC1K06	LR2K0303	0.23...0.36
0.09	0.3	50	0.12	0.37	50	–	–	–	GV2LE03	0.4	5	LC1K06	LR2K0304	0.36...0.54
0.12	0.44	50				–	–	–	GV2LE04	0.63	8	LC1K06	LR2K0304	0.36...0.54
0.18	0.6	50	0.18	0.55	50	–	–	–	GV2LE04	0.63	8	LC1K06	LR2K0305	0.54...0.8
–	–	–	0.25	0.76	50	–	–	–	GV2LE05	1	13	LC1K06	LR2K0305	0.54...0.8
0.25	0.85	50	–	–	–	–	–	–	GV2LE05	1	13	LC1K06	LR2K0306	0.8...1.2
0.37	1.1	50	0.37	1	50	0.37	0.88	50						
0.55	1.5	50	0.55	1.36	50	0.55	1.2	50	GV2LE06	1.6	22.5	LC1K06	LR2K0307	1.2...1.8
–	–	–	–	–	–	0.75	1.5	50						
–	–	–	0.75	1.68	50	–	–	–	GV2LE07	2.5	33.5	LC1K06	LR2K0307	1.2...1.8
0.75	1.9	50	–	–	–	–	–	–	GV2LE07	2.5	33.5	LC1K06	LR2K0308	1.8...2.6
1.1	2.7	50	1.1	2.37	50	1.1	2.2	50						
1.5	3.6	50	1.5	3.06	50	1.5	2.9	50	GV2LE08	4	51	LC1K06	LR2K0310	2.6...3.7
–	–	–	–	–	–	2.2	3.9	50	GV2LE08	4	51	LC1K06	LR2K0312	3.7...5.5
2.2	4.9	50	2.2	4.4	50	3	5.2	50	GV2LE10	6.3	78	LC1K06	LR2K0312	3.7...5.5
–	–	–	3	5.77	50	–	–	–	GV2LE10	6.3	78	LC1K06	LR2K0314	5.5...8
–	–	–	4	7.9	15	–	–	–	GV2LE14	10	138	LC1K09	LR2K0314	5.5...8
3	6.5	50	–	–	–	4	6.8	10	GV2LE14	10	138	LC1K09	LR2K0314	5.5...8
4	8.5	50	–	–	–	–	–	–	GV2LE14	10	138	LC1K09	LR2K0316	8...11.5
5.5	11.5	15	5.5	10.4	8	7.5	12.4	6	GV2LE16	14	170	LC1K12	LR2K0321	10...14
–	–	–	7.5	13.7	8	9	13.9	6	GV2LE16	14	170	LC1D18	LRD21	12...18
7.5	15.5	15	9	16.9	8	–	–	–	GV2LE20	18	223	LC1D18	LRD21	12...18
9	18.1	15	–	–	–	11	17.6	4	GV2LE22	25	327	LC1D25	LRD22	16...24
11	22	15	11	20.1	6	15	23	4	GV2LE22	25	327	LC1D25	LRD22	16...24
15	29	10	15	26.5	6	18.5	28	4	GV2LE32	32	416	LC1D32	LRD32	23...32
18.5	35	50	18.5	32.5	50	22	33	10	GV3L40	40	560	LC1D40A	LRD340	30...40
22	41	50	22	39	50	30	44	10	GV3L50	50	700	LC1D50A	LRD350	37...50

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

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

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D.O.L. starters with circuit breaker, contactor and thermal overload relay

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						
30	55	50	30	51.5	50	37	53	10	GV3L65	65	910	LC1D65A	LRD365	48...65
–	–	–	37	64	50	37	53	10	GV3L65	65	910	LC1D65A	LRD365	48...65
–	–	–	–	–	–	45	64	50	GV3L65	65	910	LC1D80	LRD3361	48...65
37	66	50	–	–	–	–	–	–	GV3L73	73	1120	LC1D80A	LRD380	62...80
–	–	–	37	64	70	–	–	–	GV4L80	80	880	LC1D65A	LRD365	48...65
–	–	–	–	–	–	45	64	30	GV4L80	80	880	LC1D80	LRD3361	48...65
37	66	100	–	–	–	–	–	–	GV4L80	80	1040	LC1D80	LRD3361	48...65
–	–	–	45	76	70	55	78	30	GV4L80	80	1040	LC1D80	LRD3363	63...80
45	80	100	–	–	–	–	–	–	GV4L115	115	1380	LC1D95	LRD3365	80...104
–	–	–	–	–	–	75	106	30	GV4L115	115	1380	LC1D115	LRD4367	95...120
–	–	–	55	90	70	–	–	–	GV4L115	115	1380	LC1D115	LRD4365	80...104
55	97	100	–	–	–	–	–	–	GV4L115	115	1495	LC1D115	LRD4367	95...120
–	–	–	–	–	–	50	90	⁽³⁾	NSX100●MA ⁽³⁾	100	1200	LC1D115	LRD4365	80...104
–	–	–	–	–	–	75	106	⁽³⁾	NSX160●MA ⁽³⁾	150	1500	LC1D115	LRD4367	95...120
55	97	⁽³⁾	–	–	–	–	–	–	NSX160●MA ⁽³⁾	150	1350	LC1D115	LRD4367	95...120
75	132	⁽³⁾	75	125	⁽³⁾	90	128	⁽³⁾	NSX160●MA ⁽³⁾	150	1800	LC1D150	LRD4369	110...140
–	–	–	90	146	⁽³⁾	–	–	–	NSX160●MA ⁽³⁾	150	1950	LC1F185	LR9F5371	132...220
90	160	⁽³⁾	–	–	–	110	156	⁽³⁾	NSX250●MA ⁽³⁾	220	2200	LC1F185	LR9F5371	132...220
110	195	⁽³⁾	–	–	–	–	–	–	NSX250●MA ⁽³⁾	220	2640	LC1F225	LR9F5371	132...220
–	–	–	110	178	⁽³⁾	–	–	–	NSX250●MA ⁽³⁾	220	2420	LC1F225	LR9F5371	132...220
–	–	–	–	–	–	132	184	⁽³⁾	NSX250●MA ⁽³⁾	220	2640	LC1F265	LR9F5371	132...220
–	–	–	132	215	⁽³⁾	–	–	–	NSX250●MA ⁽³⁾	220	2860	LC1F265	LR9F5371	132...220
132	230	⁽³⁾	–	–	–	–	–	–	NSX400● + Micrologic 1.3M ⁽³⁾	320	3200	LC1F265	LR9F7375	200...330
–	–	–	–	–	–	160	224	⁽³⁾	NSX400● + Micrologic 1.3M ⁽³⁾	320	2860	LC1F265	LR9F7375	200...330
–	–	–	160	256	⁽³⁾	–	–	–	NSX400● + Micrologic 1.3M ⁽³⁾	320	3520	LC1F330	LR9F7375	200...330
160	280	⁽³⁾	200	321	⁽³⁾	–	–	–	NSX400● + Micrologic 1.3M ⁽³⁾	320	4160	LC1F330	LR9F7375	200...330
–	–	–	–	–	–	200	280	⁽³⁾	NSX400● + Micrologic 1.3M ⁽³⁾	320	3840	LC1F330	LR9F7375	200...330
–	–	–	–	–	–	220	310	⁽³⁾	NSX400● + Micrologic 1.3M ⁽³⁾	320	4160	LC1F400	LR9F7379	300...500
200	350	⁽³⁾	220	353	⁽³⁾	–	–	–	NSX400● + Micrologic 1.3M ⁽³⁾	500	5000	LC1F400	LR9F7379	300...500
–	–	–	250	401	⁽³⁾	–	–	–	NSX630● + Micrologic 1.3M ⁽³⁾	500	5550	LC1F400	LR9F7379	300...500
–	–	–	–	–	–	250	344	⁽³⁾	NSX630● + Micrologic 1.3M ⁽³⁾	500	5000	LC1F400	LR9F7379	300...500
220	388	⁽³⁾	–	–	–	–	–	–	NSX630● + Micrologic 1.3M ⁽³⁾	500	5500	LC1F400	LR9F7379	300...500
250	430	⁽³⁾	280	470	⁽³⁾	315	432	⁽³⁾	NSX630● + Micrologic 1.3M ⁽³⁾	500	6000	LC1F500	LR9F7379	300...500
–	–	–	–	–	–	355	488	⁽³⁾	NSX630● + Micrologic 1.3M ⁽³⁾	500	6500	LC1F500	LR9F7381	380...630

⁽¹⁾ I_{rm}: setting current of the magnetic trip.
⁽²⁾ For reversing operation, replace the prefix LC1 with LC2.
⁽³⁾ Reference to be completed by replacing the ● with the breaking performance code:

Breaking performance I _q (kA)	NSX100●MA	NSX160●MA and NSX250●MA	NSX400● and NSX630●
400/415 V	36	70	70
440 V	35	65	65
500 V	25	50	50
660/690 V	8	10	20
Code	F	H	L

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D.O.L. starters with circuit breaker, contactor and thermal overload relay

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	0.2	130	0.06	0.19	130	–	–	–	GV2L03 or LE03	0.4	5	LC1D09	LRD02	0.16...0.25
0.09	0.3	130	0.09	0.28	130	–	–	–	GV2L03 or LE03	0.4	5	LC1D09	LRD03	0.25...0.40
–	–	–	0.12	0.37	130	–	–	–						
0.12	0.44	130	–	–	–	–	–	–	GV2L04 or LE04	0.63	8	LC1D09	LRD04	0.4...0.63
0.18	0.6	130	0.18	0.55	130	–	–	–						
0.25	0.85	130	0.25	0.76	130	–	–	–	GV2L05 or LE05	1	13	LC1D09	LRD05	0.63...1
0.37	1.1	130	0.37	0.99	130	–	–	–						
–	–	–	–	–	–	0.37	0.88	130	GV2L05 or LE05	1	13	LC1D09	LRD06	1...1.7
0.55	1.5	130	–	–	–	0.55	1.2	130	GV2L06 or LE06	1.6	22.5	LC1D09	LRD06	1...1.7
–	–	–	0.55	1.36	130	0.75	1.5	130						
0.75	1.9	130	0.75	1.68	130	1.1	2.2	130	GV2L07 or LE07	2.5	33.5	LC1D09	LRD07	1.6...2.5
1.1	2.7	130	1.1	2.37	130	1.5	2.9	130	GV2L08 or LE08	4	51	LC1D09	LRD08	2.5...4
1.5	3.6	130	–	–	–	2.2	3.9	130						
–	–	–	1.5	3.06	130	–	–	–	GV2L08 or LE08	4	51	LC1D09	LRD10	4...6
2.2	4.9	130	–	–	–	–	–	–	GV2L10 or LE10	6.3	78	LC1D09	LRD10	4...6
–	–	–	–	–	–	3	5.2	13						
–	–	–	2.2	4.42	50	–	–	–	GV2LE10	6.3	78	LC1D09	LRD10	4...6
–	–	–	3	5.77	50	3	5.2	50						
–	–	–	2.2	4.42	130	–	–	–	GV2L10	6.3	78	LC1D09	LRD10	4...6
–	–	–	3	5.77	130	3	5.2	130						
3	6.5	130	–	–	–	–	–	–	GV2L14 or LE14	10	10	LC1D09	LRD12	5.5...8
–	–	–	–	–	–	4	6.8	10	GV2LE14	10	138	LC1D12	LRD12	5.5...8
–	–	–	–	–	–	4	6.8	50	GV2L14	10	138	LC1D12	LRD12	5.5...8
4	8.5	130	–	–	–	–	–	–	GV2L14 or LE14	10	138	LC1D09	LRD14	7...10
–	–	–	4	7.9	15	–	–	–	GV2LE14	10	138	LC1D09	LRD14	7...10
–	–	–	4	7.9	130	–	–	–	GV2L14	10	138	LC1D09	LRD14	7...10
–	–	–	–	–	–	5.5	9.2	10	GV2LE14	10	138	LC1D09	LRD14	7...10
–	–	–	–	–	–	5.5	9.2	50	GV2L14	10	138	LC1D09	LRD14	7...10
5.5	11.5	130	5.5	10.4	50	7.5	12.4	42	GV2L16	14	170	LC1D25	LRD16	9...13
–	–	–	7.5	13.7	50	–	–	–	GV2L16	14	170	LC1D25	LRD21	12...18
7.5	15.5	50	9	16.9	20	9	13.9	10	GV2L20	18	223	LC1D25	LRD21	12...18
9	18.1	50	–	–	–	–	–	–	GV2L22	25	327	LC1D25	LRD22	16...24
11	22	50	11	20.1	20	–	–	–						
–	–	–	–	–	–	11	17.6	10	GV2L22	25	327	LC1D32	LRD22	16...24
–	–	–	–	–	–	15	23	10						
15	29	50	15	26.5	50	–	–	–	GV3L32	32	448	LC1D40A	LRD332	23...32
–	–	–	–	–	–	18.5	28	10	GV3L32	32	448	LC1D65A	LRD332	23...32

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

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

TeSys motor starters - open version

D.O.L. starters with circuit breaker, contactor and thermal overload relay

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						
kW	A	kA	kW	A	kA	kW	A	kA		A	A			A
18.5	35	50	—	—	—	—	—	—	GV3L40	40	560	LC1D50A	LRD340	30...40
—	—	—	18.5	32.5	50	—	—	—	GV3L40	40	560	LC1D65A	LRD340	30...40
22	41	50	—	—	—	—	—	—	GV3L50	50	700	LC1D50A	LRD350	37...50
—	—	—	22	39	50	30	44	10	GV3L50	50	700	LC1D65A	LRD350	37...50
30	55	50	30	51.5	50	37	53	10	GV3L65	65	910	LC1D65A	LRD365	48...65
37	66	50	—	—	—	—	—	—	GV3L73	73	1120	LC1D80A	LRD380	62...80
45	60	50	—	—	—	—	—	—	GV3L80	80	1120	LC1D95	LRD363	63...80
—	—	—	37	64	70	—	—	—	GV4L80	80	880	LC1D65A	LRD365	48...65
37	66	100	45	76	70	(4)	(4)	(4)	GV4L80	80	1040	LC1D80	LRD363	63...80
45	80	100	55	90	70	(4)	(4)	(4)	GV4L115	115	1380	LC1D115 LC1F115	LR9D5367 LR9F5367	60...100 60...100
55	97	100	—	—	—	(4)	(4)	(4)	GV4L115	115	1495	LC1D115 LC1F115	LR9D5369 LR9F5369	90...150 90...150
—	—	—	—	—	—	55	78	(3)	NSX100●MA ⁽³⁾	100	1040	LC1D80	LRD363	63...80
45	80	(3)	55	90	(3)	—	—	—	NSX100●MA ⁽³⁾	100	1300	LC1D115	LR9D5367	60...100
55	97	(3)	—	—	—	—	—	—	NSX160●MA ⁽³⁾	150	1500	LC1D115	LR9D5369	90...150
—	—	—	—	—	—	75	106	(3)	NSX160●MA ⁽³⁾	150	1950	LC1D115	LR9D5369	90...150
75	132	(3)	75	125	(3)	—	—	—	NSX160●MA ⁽³⁾	150	1950	LC1D150	LR9D5369	90...150
—	—	—	90	146	(3)	—	—	—	NSX160●MA ⁽³⁾	150	1950	LC1D150	LR9D5369	90...150
—	—	—	—	—	—	90	128	(3)	NSX160●MA ⁽³⁾	150	1200	LC1D150	LR9D5369	90...150
90	160	(3)	110	178	(3)	—	—	—	NSX250●MA ⁽³⁾	220	2420	LC1F185	LR9F5371	132...220
—	—	—	—	—	—	110	156	(3)	NSX250●MA ⁽³⁾	220	1540	LC1F185	LR9F5371	132...220
110	195	(3)	—	—	—	—	—	—	NSX250●MA ⁽³⁾	220	2860	LC1F225	LR9F5371	132...220
—	—	—	132	215	(3)	132	184	(3)	NSX400● + Micrologic 1.3M ⁽³⁾	320	3500	LC1F265	LR9F5371	132...220
132	230	(3)	160	256	(3)	—	—	—	NSX400● + Micrologic 1.3M ⁽³⁾	320	3520	LC1F265	LR9F7375	200...330
—	—	—	—	—	—	160	224	(3)	NSX400● + Micrologic 1.3M ⁽³⁾	320	2200	LC1F265	LR9F7375	200...330
160	280	(3)	—	—	—	—	—	—	NSX400● + Micrologic 1.3M ⁽³⁾	320	4000	LC1F330	LR9F7375	200...330
—	—	—	200	321	(3)	—	—	—	NSX400● + Micrologic 1.3M ⁽³⁾	320	4000	LC1F330	LR9F7379	300...500
—	—	—	—	—	—	200	280	(3)	NSX400● + Micrologic 1.3M ⁽³⁾	320	3500	LC1F400	LR9F7375	200...330
—	—	—	—	—	—	220	310	(3)	NSX400● + Micrologic 1.3M ⁽³⁾	320	3500	LC1F400	LR9F7379	300...500
—	—	—	220	353	(3)	—	—	—	NSX630● + Micrologic 1.3M ⁽³⁾	500	5500	LC1F400	LR9F7379	300...500
200	350	(3)	250	401	(3)	—	—	—	NSX630● + Micrologic 1.3M ⁽³⁾	500	4500	LC1F500	LR9F7379	300...500
—	—	—	—	—	—	250	344	(3)	NSX630● + Micrologic 1.3M ⁽³⁾	500	6250	LC1F500	LR9F7379	300...500
220	388	(3)	—	—	—	—	—	—	NSX630● + Micrologic 1.3M ⁽³⁾	500	6250	LC1F500	LR9F7379	300...500
250	430	(3)	—	—	—	—	—	—	NSX630● + Micrologic 1.3M ⁽³⁾	500	5000	LC1F630	LR9F7381	380...630
—	—	—	—	—	—	355	488	(3)	NSX630● + Micrologic 1.3M ⁽³⁾	500	5000	LC1F630	LR9F7381	380...630

⁽¹⁾ I_{rm}: setting current of the magnetic trip.⁽²⁾ For reversing operation, replace the prefix LC1 with LC2.⁽³⁾ Reference to be completed by replacing the ● with the breaking performance code:

Breaking performance I _q (kA)	NSX100●MA	NSX160●MA and NSX250●MA	NSX400● and NSX630●
400/415 V	36	70	150
440 V	35	65	130
500 V	25	50	70
660/690 V	8	10	20
Code	F	H	L

⁽⁴⁾ Please consult your regional sales office.

TeSys motor starters - open version

D.O.L. starters with circuit breaker, contactor and electronic thermal overload relay

0.06 to 30 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	Electronic thermal overload relay	
400/415 V			690 V			Reference	Rating	I _{rm}	Reference	Reference	Setting range
P	I _e	I _q	P	I _e	I _q						
kW	A	kA	kW	A	kA		A	A			A
0.06	0.2	100	–	–	–	GV2L03	0.4	5	LC1D09	LR9D01	0.1...0.5
0.09	0.3	100	–	–	–	GV2L03	0.4	5	LC1D09	LR9D01	0.1...0.5
0.12	0.44	100	–	–	–	GV2L04	0.63	8	LC1D18	LR9D02	0.4...2.0
0.18	0.6	100	–	–	–	GV2L04	0.63	8	LC1D18	LR9D02	0.4...2.0
0.25	0.85	100	–	–	–	GV2L05	1	13	LC1D18	LR9D02	0.4...2.0
0.37	1.1	100	–	–	–	GV2L05	1	13	LC1D18	LR9D02	0.4...2.0
0.55	1.5	100	–	–	–	GV2L06	1.6	22.5	LC1D18	LR9D02	0.4...2.0
0.75	1.9	100	–	–	–	GV2L07	2.5	33.5	LC1D18	LR9D08	1.6...8.0
1.1	2.7	100	–	–	–	GV2L08	4	51	LC1D18	LR9D08	1.6...8.0
1.5	3.6	100	–	–	–	GV2L08	4	51	LC1D18	LR9D08	1.6...8.0
2.2	4.9	100	–	–	–	GV2L10	6.3	78	LC1D18	LR9D08	1.6...8.0
3	6.5	100	–	–	–	GV2L14	10	138	LC1D25	LR9D32	6.4...32
4	8.5	100	–	–	–	GV2L14	10	138	LC1D25	LR9D32	6.4...32
5.5	11.5	100	–	–	–	GV2L16	14	170	LC1D25	LR9D32	6.4...32
7.5	15.5	50	–	–	–	GV2L20	18	223	LC1D25	LR9D32	6.4...32
11	22	50	–	–	–	GV2L22	25	327	LC1D25	LR9D32	6.4...32
15	29	50	–	–	–	GV3L32	40	448	LC1D65A	LR9D110S	22...110
18.5	35	50	–	–	–	GV3L40	40	560	LC1D65A	LR9D110S	22...110
22	41	50	–	–	–	GV3L50	50	700	LC1D65A	LR9D110S	22...110
30	55	50	–	–	–	GV3L65	65	910	LC1D65A	LR9D110S	22...110
–	–	–	0.37	0.64	50	GV2L05	1	13	LC1D09	LR9D02	0.4...2.0
–	–	–	0.55	0.87	50	GV2L05	1	13	LC1D09	LR9D02	0.4...2.0
–	–	–	0.75	1.1	50	GV2L06	1.6	22.5	LC1D09	LR9D02	0.4...2.0
–	–	–	1.1	1.6	50	GV2L07 + LA9LB920	2.5	33.5	LC1D25	LR9D08	1.6...8.0
–	–	–	1.5	2.1	50	GV2L07 + LA9LB920	2.5	33.5	LC1D25	LR9D08	1.6...8.0
–	–	–	2.2	2.8	50	GV2L08 + LA9LB920	4	51	LC1D25	LR9D08	1.6...8.0
–	–	–	3	4	50	GV2L08 + LA9LB920	4	51	LC1D25	LR9D08	1.6...8.0
–	–	–	4	5	50	GV2L10 + LA9LB920	6.3	78	LC1D25	LR9D08	1.6...8.0
–	–	–	5.5	7	50	GV2L14 + LA9LB920	10	138	LC1D25	LR9D32	6.4...32
–	–	–	7.5	8.9	50	GV2L14 + LA9LB920	10	138	LC1D25	LR9D32	6.4...32
–	–	–	11	13	3	GV3L18 + LA9LB920	14	252	LC1D32	LR9D32	6.4...32
–	–	–	15	16.5	3	GV2L22 + LA9LB920	18	327	LC1D32	LR9D32	6.4...32
–	–	–	18.5	21	3	GV3L25 + LA9LB920	25	350	LC1D65A	LR9D32	6.4...32
–	–	–	22	25	3	GV2L32 + LA9LB920	32	416	LC1D65A	LR9D32	6.4...32