TeSys motor starters - open version

Star-delta starters with fuse protection (NF C or DIN fuses), contactor and thermal overload relay

1.5 to 315 kW at 400/415 V: type 1 coordination

Maximum operating rate: LC3 K and LC3 F: 12 starts/hour; LC3 D: 30 starts/hour.
Maximum starting time: LC3 K and LC3 D: 30 seconds; LC3 F: 20 seconds.

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3								Fuse carrier (basic block)	aM fuses		Star-delta contactors	Thermal overload relay	
400/415 V				440 V				Reference	Size	Rating	Reference	Reference	Setting range
P	Ie	IrD (1)	Iq	P	Ie	IrD (1)	Iq						
kW	A	A	kA	kW	A	A	kA			A			A
1.5	3.5	2	50	1.5	3.06	2	50	LS1D32	10 x 38	4	LC3K06	LR2K0308	1.8…2.6
2.2	5	3	50	–	–	–	–	LS1D32	10 x 38	6	LC3K06	LR2K0310	2.6…3.7
–	–	–	–	2.2	4.42	3	50						
–	–	–	–	3	5.77	3	50	LS1D32	10 x 38	8	LC3K06	LR2K0310	2.6…3.7
3	6.5	4	50	–	–	–	–	LS1D32	10 x 38	8	LC3K06	LR2K0312	3.7…5.5
4	8.4	5	50	4	7.9	5	50	LS1D32	10 x 38	12	LC3K06	LR2K0312	3.7…5.5
5.5	11	6	50	5.5	10.4	6	50	LS1D32	10 x 38	16	LC3K06	LR2K0314	5.5…8
7.5	14.8	9	50	7.5	13.7	8	50	LS1D32	10 x 38	16	LC3K09	LR2K0316	8…11.5
9	18.1	10	100	9	16.9	10	50	LS1D32	10 x 38	20	LC3D12A	LRD16	9…13
11	21	12	100	11	20.1	12	100	GK1EK	14 x 51	25	LC3D12A	LRD16	9…13
15	28.5	16	100	15	26.5	15	100	GK1EK	14 x 51	32	LC3D18A	LRD21	12…18
18.5	35	20	100	18.5	32.8	19	100	GK1EK	14 x 51	40	LC3D18A	LRD22	16…24
–	–	–	–	22	39	23	100	GS●J	22 x 58	50	LC3D18A	LRD22	16…24
22	42	24	100	–	–	–	–	GS●J	22 x 58	50	LC3D32A	LRD32	23…32
–	–	–	–	30	51.5	30	100	GS●J	22 x 58	63	LC3D32A	LRD32	23…32
30	57	33	100	37	64	37	100	GS●J	22 x 58	80	3 x LC1D40A	LRD340	30…40
37	69	40	100	–	–	–	–	GS●J	22 x 58	80	3 x LC1D40A	LRD350	37…50
–	–	–	–	45	76	44	100	GS●J	22 x 58	80	3 x LC1D50A	LRD350	37…50
45	81	47	100	–	–	–	–	GS●J	22 x 58	100	3 x LC1D50A	LRD350	37…50
–	–	–	–	55	90	52	100	GS●K	22 x 58	100	3 x LC1D50A	LRD365	48…65
55	100	58	100	–	–	–	–	GS●K	22 x 58	125	3 x LC1D65A	LRD365	48…65
75	135	78	100	75	125	72	100	GS●L	T0	160	LC3D80	LRD3363	63…80
–	–	–	–	90	146	84	100	GS●L	T0	160	LC3D115	LRD4365	80…104
90	165	95	100	–	–	–	–	GS●N	T1	200	LC3D115	LRD4367	95…120
110	200	115	100	110	178	103	100	GS●N	T1	200	LC3D115	LRD4367	95…120
132	240	139	100	132	215	124	100	GS●QQ	T2	250	LC3D150	LRD4369	110…140
160	285	165	100	160	256	148	100	GS●QQ	T2	315	LC3F185	LR9F5371	132…220
–	–	–	–	200	321	185	100	GS●QQ	T2	400	LC3F225	LR9F5369	132…220
220	388	225	100	–	–	–	–	GS●QQ	T2	400	LC3F265	LR9F7375	200…330
–	–	–	–	250	401	233	100	GS2S	T3	500	LC3F265	LR9F7375	200…330
280	480	278	100	–	–	–	–	GS2S	T3	500	LC3F330	LR9F7375	200…330
–	–	–	–	315	505	293	100						
315	555	322	100	355	518	300	100	GS2S	T3	630	LC3F330	LR9F7375	200…330
–	–	–	–	375	575	334	100	GS2S	T3	630	LC3F400	LR9F7379	300…500

(1) IrD: current in the motor windings in delta connection.

TeSys motor starters - open version

Star-delta starters with fuse protection (NF C or DIN fuses), contactors and thermal overload relay

1.5 to 355 kW at 400/415 V: type 2 coordination

Maximum operating rate: LC1 D: 30 starts/hour; LC1 F: 12 starts/hour.
Maximum starting time: LC1 D: 30 seconds; LC1 F: 20 seconds.

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3						Switch-disconnector-fuse	aM fuses		Star-delta contactors	Thermal overload relay	
400/415 V			440 V			Reference	Size	Rating	Reference	Reference	Setting range
P	Ie	Iq	P	Ie	Iq						
kW	A	kA	kW	A	kA			A			A
1.5	3.5	50	**1.5**	3.06	50	**GS1DD**	10 x 38	4	3 x **LC1D09**	**LRD08**	2.5…4
2.2	5	50	**2.2**	4.42	50	**GS1DD**	10 x 38	6	3 x **LC1D09**	**LRD10**	4…6
3	6.5	50	**3**	5.77	50	**GS1DD**	10 x 38	8	3 x **LC1D09**	**LRD12**	5.5…8
4	8.4	50	**4**	7.9	50	**GS1DD**	10 x 38	10	3 x **LC1D09**	**LRD14**	7…10
5.5	11	50	**5.5**	10.4	50	**GS1DD**	10 x 38	16	3 x **LC1D12**	**LRD16**	9…13
7.5	14.8	50	**7.5**	13.7	50	**GS1DD**	10 x 38	16	3 x **LC1D18**	**LRD21**	12…18
9	18.1	100	**9**	16.9	100						
11	21	100	**11**	20.1	100	**GS•F**	14 x 51	25	3 x **LC1D25**	**LRD22**	16…24
15	28.5	100	**15**	26.5	100	**GS•F**	14 x 51	32	3 x **LC1D32**	**LRD32**	23…32
18.5	35	100	**18.5**	32.8	100	**GS•F**	14 x 51	40	3 x **LC1D40A**	**LRD340**	30…40
22	42	100	**22**	39	100	**GS•J**	22 x 58	50	3 x **LC1D50A**	**LRD350**	37…50
30	57	100	**30**	51.5	100	**GS•J**	22 x 58	80	3 x **LC1D65A**	**LRD365**	48…65
37	69	100	**37**	64	100	**GS•J**	22 x 58	80	3 x **LC1D80**	**LRD3363**	63…80
–	–	–	**45**	76	100	**GS•J**	22 x 58	80	3 x **LC1D80**	**LRD3365**	80…93
45	81	100	–	–	–	**GS•J**	22 x 58	100	3 x **LC1D115**	**LR9D5367**	60…100
–	–	–	**55**	90	100	**GS•L**	T0	125	3 x **LC1D115**	**LR9D5369**	90…150
55	100	100	–	–	–	**GS•L**	T0	125	3 x **LC1D150**	**LR9D5369**	90…150
–	–	–	**75**	125	100	**GS•L**	T0	160	3 x **LC1D150**	**LR9D5369**	90…150
75	135	100	–	–	–	**GS•L**	T0	160	3 x **LC1F185**	**LR9D5369**	90…150
90	165	100	**90**	146	100	**GS•N**	T1	200	3 x **LC1F185**	**LR9F5371**	132…220
110	200	100	**110**	178	100	**GS•N**	T1	250	3 x **LC1F225**	**LR9F5371**	132…220
132	240	100	**132**	215	100	**GS•QQ**	T2	315	3 x **LC1F265**	**LR9F7375**	200…330
160	285	100	**160**	256	100	**GS•QQ**	T2	400	3 x **LC1F330**	**LR9F7375**	200…330
–	–	–	**200**	321	100	**GS•QQ**	T2	400	3 x **LC1F330**	**LR9F7379**	300…500
200	352	100	**220**	353	100						
220	388	100	**250**	401	100	**GS2S**	T3	500	3 x **LC1F400**	**LR9F7379**	300…500
250	437	100	–	–	–	**GS2S**	T3	500	3 x **LC1F500**	**LR9F7379**	300…500
315	555	100	**315**	505	100	**GS2S**	T3	630	3 x **LC1F630**	**LR9F7381**	380…630
–	–	–	**355**	549	100						
–	–	–	**400**	611	100	**GS2V**	T4	800	3 x **LC1F630**	**LR9F7381**	380…630
355	605	100	–	–	–	**GS2V**	T4	800	3 x **LC1F780**	**LR9F7381**	380…630

TeSys motor starters - open version

Star-delta starters with fuse protection (BS fuses), contactors and thermal overload relay

1.5 to 375 kW at 415 V: type 2 coordination

Maximum operating rate: LC1 D: 30 starts/hour; LC1 F: 12 starts/hour.
Maximum starting time: LC1 D: 30 seconds; LC1 F: 20 seconds.

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3						Switch-disconnector-fuse	BS fuses		Star-delta contactors	Thermal overload relay	
415 V			440 V			Reference	Size	Rating	Reference	Reference	Setting range
P	Ie	Iq	P	Ie	Iq						
kW	A	kA	kW	A	kA			A			A
1.5	3.5	50	**1.5**	3.06	50	**GS1DDB**	A1	NIT 16	3 x **LC1D09**	**LRD08**	2.5…4
2.2	5	50	**2.2**	4.42	50	**GS1DDB**	A1	NIT 16	3 x **LC1D09**	**LRD10**	4…6
3	6.5	50	**3**	5.77	50	**GS1DDB**	A1	NIT 20	3 x **LC1D09**	**LRD12**	5.5…8
4	8.4	50	**4**	7.9	50	**GS1DDB**	A1	NIT 20	3 x **LC1D09**	**LRD14**	7…10
5.5	11	50	**5.5**	10.4	50	**GS1DDB**	A1	NIT 20M25	3 x **LC1D12**	**LRD16**	9…13
7.5	14.8	50	**7.5**	13.7	50	**GS1DDB**	A1	NIT 20M32	3 x **LC1D18**	**LRD21**	12…18
9	18.1	50	**9**	16.9	50	**GS2GB**	A2	TIA 32M35	3 x **LC1D18**	**LRD21**	12…18
11	21	50	**11**	20.1	50	**GS2GB**	A2	TIA 32M50	3 x **LC1D25**	**LRD22**	16…24
15	28.5	50	**15**	26.5	50	**GS2GB**	A2	TIA 32M63	3 x **LC1D32**	**LRD32**	23…32
22	42	50	**22**	39	50	**GS2GB**	A3	TIS 63M80	3 x **LC1D50A**	**LRD350**	37…50
–	–	–	**30**	51.5	50	**GS2GB**	A3	TIS 63M100	3 x **LC1D65A**	**LRD365**	48…65
30	57	50	**–**	–	–	**GS2GB**	A3	TIS 63M100	3 x **LC1D65A**	**LRD365**	48…65
45	81	50	**45**	76	50	**GS2LLB**	A4	TCP 100M125	3 x **LC1D80**	**LRD3363**	63…80
55	100	80	**55**	90	80	**GS2LLB**	A4	TCP 100M160	3 x **LC1D115**	**LR9D5369**	90…150
80	138	80	**80**	132	80	**GS2LB**	B2	TF 200M250	3 x **LC1D150**	**LR9D5369**	90…150
100	182	80	**100**	162	80	**GS2MMB**	B2	TF 200M250	3 x **LC1F185**	**LR9F5371**	132…220
110	196	80	**110**	178	80	**GS2MMB**	B2	TF 200M315	3 x **LC1F225**	**LR9F5371**	132…220
140	250	80	**140**	226	80	**GS2NB**	B3	TFK 315M355	3 x **LC1F265**	**LR9F7375**	200…330
160	285	80	**160**	256	80	**GS2QQB**	B3	TFK 315M355	3 x **LC1F330**	**LR9F7375**	200…330
220	388	80	**220**	353	80	**GS2QQB**	B4	TMF 400M450	3 x **LC1F400**	**LR9F7379**	300…500
257 **270**	450 460	80 80	**257** **270**	412 433	80 80	**GS2SB**	C2	TTM 500	3 x **LC1F500**	**LR9F7379**	300…500
375	610	80	**375**	577	80	**GS2SB**	C2	TTM 630	3 x **LC1F630**	**LR9F7381**	380…630

TeSys motor starters - open version

Star-delta starters with circuit breaker and overload protection built into the circuit breaker

1.5 to 110 kW at 400/415 V: type 1 coordination

Maximum operating rate: LC3 K: 12 starts/hour; LC3 D: 30 starts/hour.
Maximum starting time: 30 seconds.

Standard power ratings of 3-phase motors 50-60 Hz in category AC-3								Circuit breaker		Star-delta contactors
400/415 V				440 V				Reference *References in italics are available in CEE zone only*	Setting range of thermal trips	Reference
P	Ie	IrD (1)	Iq (2)	P	Ie	IrD (1)	Iq (2)			
kW	A	A	kA	kW	A	A	kA		A	
1.5	3.6	2	50	**1.5**	3.06	1.8	50	**GV2ME08** *GV2ME08AP*	2.5…4	**LC3K06**
2.2	4.9	2.9	50	**2.2**	4.42	2.6	50	**GV2ME10** *GV2ME10AP*	4…6.3	**LC3K06**
–	–	–	–	**3**	5.77	3.3	50			
3	6.5	3.8	50	–	–	–	–	**GV2ME14** *GV2ME14AP*	6…10	**LC3K06**
4	8.5	4.9	50	**4**	7.9	4.6	15			
5.5	11.5	6.4	15	**5.5**	10.4	6	8	**GV2ME16** *GV2ME16AP*	9…14	**LC3K06**
7.5	15.5	8.6	15	**7.5**	13.7	7.9	8	**GV2ME20** *GV2ME20AP*	13…18	**LC3K09**
–	–	–	–	**9**	16.9	9.8	8	**GV2ME20** *GV2ME20AP*	13…18	**LC3D12A**
9	18.1	10	15	**11**	20.1	12	6	**GV2ME21** *GV2ME21AP*	17…23	**LC3D12A**
11	22	12	15	–	–	–	–	**GV2ME22** *GV2ME22AP*	20…25	**LC3D12A**
15	29	17	10	**15**	26.5	15	6	**GV2ME32** *GV2ME32AP*	24…32	**LC3D18A**
18.5	35	20	50	**18.5**	32.8	19	50	**GV3P40**	30…40	**LC3D18A**
–	–	–	–	**22**	39	23	50	**GV3P50**	37…50	**LC3D32A**
22	41	24	50	**30**	51.5	30	50	**GV3P50**	37…50	**LC3D32A**
30	55	33	50	**30**	51.5	30	50	**GV3P65**	48…65	**LC3D32A**
37	66	40	50	**37**	64	37	50	**GV3P65**	48…65	3 x **LC1D40A** (3)
37	66	40	100	**37**	64	37	70	**GV4P80**	40…80	3 x **LC1D40A** (3)
–	–	–	–	**45**	76	44	70	**GV4P80**	40…80	2 x **LC1D50A** +1 x **LC1D40A** (3)
45	80	47	100	–	–	–	–	**GV4P115**	65…115	2 x **LC1D50A** +1 x **LC1D40A** (3)
55	97	58	100	**55**	90	52	70	**GV4P115**	65…115	2 x **LC1D65A** +1 x **LC1D40A** (3)
75	132	78	35	**75**	125	72	35	**GV5P150F**	70…150	**LC3D80**
–	–	–	–	**90**	146	84	35	**GV5P150F**	0…150	**LC3D115**
90	160	95	35	**110**	178	103	35	**GV5P220F**	100…220	**LC3D115**
110	195	115	35							
–	–	–	–	**132**	215	124	35	**GV5P220F**	100…220	**LC3D150**
132	230	135	36	–	–	–	–	**GV6P320F**	160...320	**LC3D150** or 3 x **LC1F150**
160	270	158	36	**160**	256	94	35	**GV6P320F**	160...320	3 x **LC1F185**
220	380	220	36	**250**	401	146	35	**GV6P500F**	250...500	3 x **LC1F265**
250	430	250	36	**300**	480	175	35	**GV6P500F**	250...500	3 x **LC1F330**

(1) IrD: current in the motor windings in delta connection.
*(2) The breaking performance of circuit breakers **GV2 ME** can be increased by adding a current limiter **GV1 L3**, see page B6/23.*
*(3) For mounting 3 contactors **LC1 D●●A**, star-delta starter kit **LAD 9SD3** must be ordered separately, see page B8/30.*

TeSys motor starters - open version

Star-delta starters with circuit breaker and overload protection built into the circuit breaker

1.5 to 110 kW at 400/415 V: type 2 coordination

Maximum operating rate: LC1 D: 30 starts/hour; LC1 F: 12 starts/hour.
Maximum starting time: LC1 D: 30 seconds; LC1 F: 20 seconds.

Standard power ratings of 3-phase motors 50-60 Hz in category AC-3								Circuit breaker		Star-delta contactors
400/415 V				440 V				Reference	Setting range of thermal trips	Reference
P	Ie	IrD (8)	Iq	P	Ie	IrD (8)	Iq (1)			
kW	A	A	kA	kW	A	A	kA		A	
1.5	3.6	–	130	**1.5**	3.06	–	130	**GV2P08**	2.5…4	3 x **LC1D09** (2)
2.2	4.9	–	130	**2.2**	4.42	–	130	**GV2P10**	4…6.3	3 x **LC1D18** (3)
–	–	–	–	**3**	5.77	–	130	**GV2P10**	4...6.3	3 x **LC1D18** (3)
3	6.5	–	130	–	–	–	–	**GV2P14**	6…10	3 x **LC1D18** (3)
4	8.5	–	130	**4**	7.9	–	130	**GV2P14**	6…10	3 x **LC1D18** (3)
5.5	11.5	–	130	**5.5**	10.4	–	50	**GV2P16**	9…14	3 x **LC1D25** (3)
–	–	–	–	**7.5**	13.7	–	50	**GV2P16**	9…14	3 x **LC1D25** (3)
7.5	15.5	–	50	**9**	16.9	–	20	**GV2P20**	13…18	3 x **LC1D25** (3)
9	18.1	–	50	**11**	20.1	–	20	**GV2P21**	17…23	3 x **LC1D25** (3)
11	22	–	50	–	–	–	–	**GV2P22**	20…25	3 x **LC1D25** (3)
15	29	–	50	**15**	26.5	–	50	**GV3P32**	23…32	3 x **LC1D40A** (4)
18.5	35	–	50	–	–	–	–	**GV3P40**	30…40	2 x **LC1D50A** +1 x **LC1D40A** (3)
–	–	–	–	**18.5**	32.8	–	50	**GV3P40**	30…40	2 x **LC1D65A** +1 x **LC1D40A** (4)
22	41	–	50	–	–	–	–	**GV3P50**	37…50	2 x **LC1D50A** +1 x **LC1D40A** (3)
–	–	–	–	**22**	39	–	50	**GV3P50**	37…50	2 x **LC1D65A** +1 x **LC1D40A** (4)
30	55	–	50	**30**	51.5	–	50	**GV3P65**	48…65	2 x **LC1D65A** +1 x **LC1D40A** (4)
37	66	–	100	**45**	76	–	70	**GV4P80**	40…80	3 x **LC1D80** (5)
–	–	–	–	**37**	64	–	70	**GV4P80**	40…80	3 x **LC1D65A** (4)
45	80	–	100	–	–	–	–	**GV4P115**	65…115	3 x **LC1D115** (6)
55	97	–	100	**55**	90	–	70	**GV4P115**	65…115	3 x **LC1D115** (6)
75	132	78	70	**75**	125	74	65	**GV5P150H**	70…150	3 x **LC1D150** (6)
–	–	–	–	**90**	146	86	65	**GV5P150H**	70…150	3 x **LC1D150** (6)
90	160	95	70	**110**	178	104	65	**GV5P220H**	100…220	3 x **LC1F185** (7)
110	195	115	70	**132**	215	126	65	**GV5P220H**	100…220	3 x **LC1F225** (7)
132	230	135	70	–	–	–	–	**GV6P320H**	160...320	**LC3D150** or 3 x **LC1F150**
160	270	156	70	**160**	256	150	65	**GV6P320H**	160...320	3 x **LC1F185**
220	380	220	70	**250**	401	234	65	**GV6P500H**	250...500	3 x **LC1F265**
250	430	250	70	**300**	480	279	65	**GV6P500H**	250...500	3 x **LC1F330**

*(1) The breaking performance of circuit breakers **GV2 P** can be increased by adding a current limiter **GV1 L3**, see page B6/54.*
*(2) For mounting 3 contactors **LC1 D09**, star-delta starter kit **LAD 91217** must be ordered separately, see page B8/30.*
*(3) For mounting 3 contactors **LC1 D18** or **LC1 D25**, star-delta starter kit **LAD 93217** must be ordered separately, see page B8/30.*
*(4) For mounting 3 contactors **LC1 D●●A**, star-delta starter kit **LAD 9SD3** must be ordered separately, see page B8/30.*
*(5) For mounting 3 contactors **LC1 D80**, star-delta starter kit **LA9 D8017** must be ordered separately, see page B8/30.*
*(6) For mounting 3 contactors **LC1 D115** or **LC1 D150**, see A2/13.*
*(7) For mounting 3 contactors **LC1 F185** or **LC1 F225**, see pages A2/15 and A2/17.*
(8) IrD: current in the motor windings in delta connection.

TeSys motor starters - open version

Star-delta starters with circuit breaker, contactors and thermal overload relay

1.5 to 315 kW at 400/415 V: type 1 coordination

Maximum operating rate: LC3 K and LC3 F: 12 starts/hour; LC3 D: 30 starts/hour.
Maximum starting time: LC3 K and LC3 D: 30 seconds; LC3 F: 20 seconds.

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3								Circuit breaker			Star-delta contactors	Thermal overload relay	
400/415 V				440 V				Reference	Rating	Irm (2)	Reference	Reference	Setting range
P	Ie	IrD (1)	Iq	P	Ie	IrD (1)	Iq						
kW	A	A	kA	kW	A	A	kA		A	A			A
–	–	–	–	**1.5**	3.06	1.8	50	**LC3D32A**	4	51	**LC3K06**	**LR2K0308**	1.8…2.6
1.5	3.6	2	50	**2.2**	4.42	3	50						
2.2	4.9	3	50	**3**	5.77	3	50	**GV2LE10**	6.3	78	**LC3K06**	**LR2K0310**	2.6…3.7
3	6.5	4	50	–	–	–	–	**GV2LE14**	10	138	**LC3K06**	**LR2K0312**	3.7…5.5
–	–	–	–	**4**	7.9	5	50	**GV2LE10**	6.3	78	**LC3K06**	**LR2K0312**	3.7…5.5
4	8.5	5	50	–	–	–	–	**GV2LE14**	10	138	**LC3K06**	**LR2K0312**	3.7…5.5
–	–	–	–	**5.5**	10.4	6	15	**GV2LE14**	10	138	**LC3K06**	**LR2K0314**	5.5…8
5.5	11.5	6	15	–	–	–	–	**GV2LE16**	14	170	**LC3K06**	**LR2K0314**	5.5…8
–	–	–	–	**7.5**	13.7	8	8	**GV2LE16**	14	170	**LC3K09**	**LR2K0316**	8…11.5
7.5	15.5	9	15	–	–	–	–	**GV2LE20**	18	223	**LC3K09**	**LR2K0316**	8…11.5
–	–	–	–	**9**	16.9	1	8	**GV2LE16**	14	170	**LC3D12A**	**LRD16**	9…13
9	18.1	10	15	–	–	–	–	**GV2LE22**	25	327	**LC3K12**	**LR2K0316**	8…11.5
–	–	–	–	**11**	20.1	12	8	**GV2LE20**	18	223	**LC3K12**	**LR2K0321**	10…14
11	22	12	15	–	–	–	–	**GV2LE22**	25	327	**LC3K12**	**LR2K0321**	10…14
–	–	–	–	**15**	26.5	15	6	**GV2LE22**	25	327	**LC3D18A**	**LRD21**	12…18
15	29	16	10	–	–	–	–	**GV2LE32**	32	384	**LC3D18A**	**LRD21**	12…18
18.5	35	20	50	**18.5**	32.8	19	50	**GV3L40**	40	560	**LC3D18A**	**LRD22**	16…24
22	41	24	50	**22**	39	23	50	**GV3L50**	50	700	**LC3D32A**	**LRD32**	23…32
–	–	–	–	**30**	51.5	30	50	**GV3L65**	65	910	**LC3D32A**	**LRD32**	23…32
30	55	33	50	–	–	–	–	**GV3L65**	65	910	**LC3D32A**	**LRD35**	30…38
–	–	–	–	**37**	64	37	50	**GV3L65**	65	910	3 x **LC1D40A** (4)	**LRD340**	30…40
37	66	40	100	–	–	–	–	**GV4L80**	80	640	3 x **LC1D40A** (4)	**LRD350**	37…50
–	–	–	–	**37**	64	37	70	**GV4L80**	80	640	3 x **LC1D40A** (4)	**LRD340**	30…40
–	–	–	–	**45**	76	44	70	**GV4L80**	80	800	2 x **LC1D50A** +1 x **LC1D40A** (4)	**LRD350**	30…40
45	80	47	100	–	–	–	–	**GV4L115**	115	805	2 x **LC1D50A** +1 x **LC1D40A** (4)	**LRD350**	30…40
55	97	58	100	**55**	90	52	70	**GV4L115**	115	805	2 x **LC1D50A** +1 x **LC1D40A** (4)	**LRD350**	30…40
–	–	–	–	**75**	125	72	(3)	**NSX160●MA** (3)	150	1200	**LC3D80**	**LRD3363**	63…80
75	132	78	(3)	–	–	–	–	**NSX160●MA** (3)	150	1200	**LC3D80**	**LRD3363**	63…80
–	–	–	–	**90**	146	85	(3)	**NSX160●MA** (3)	150	1200	**LC3D115**	**LRD4365**	80…104
90	160	96	(3)	**110**	178	103	(3)	**NSX250●MA** (3)	220	1760	**LC3D115**	**LRD4365**	80…104
–	–	–	–	**132**	215	125	(3)	**NSX250●MA** (3)	220	1760	**LC3D150**	**LRD4369**	110…140
110	195	116	(3)	–	–	–	–	**NSX250●MA** (3)	220	1760	**LC3D115**	**LRD4367**	95…120
–	–	–	–	**160**	256	148	(3)	**NSX400●** + **Micrologic 1.3M** (3)	320	2240	**LC3D150**	**LR9D5369**	90…150
–	–	–	–	**200**	321	186	(3)	**NSX630●** + **Micrologic 1.3M** (3)	500	3150	**LC3F225**	**LR9F5371**	132…220
132	230	139	(3)	–	–	–	–	**NSX400●** + **Micrologic 1.3M** (3)	320	2240	**LC3D150**	**LRD4369**	110…140
160	280	165	(3)	–	–	–	–	**NSX400●** + **Micrologic 1.3M** (3)	320	2560	**LC3F185**	**LR9F5371**	132…220
200	350	204	(3)	**220**	353	204	(3)	**NSX630●** + **Micrologic 1.3M** (3)	500	3150	**LC3F225**	**LR9F5371**	132…220
220	388	225	(3)	**250**	401	233	(3)	**NSX630●** + **Micrologic 1.3M** (3)	500	3500	**LC3F265**	**LR9F7375**	200…330
280	480	278	(3)	–	–	–	–	**NSX630●** + **Micrologic 1.3M** (3)	500	4000	**LC3F330**	**LR9F7375**	200…330
–	–	–	–	**315**	505	295	(3)	**NSX800●** + **Micrologic 5.0 - LR off**	800	4000	**LC3F330**	**LR9F7375**	200…330
315	540	322	(3)	**355**	518	300	(3)	**NSX800●** + **Micrologic 5.0 - LR off**	800	4500	**LC3F330**	**LR9F7375**	200…330
–	–	–	–	**375**	575	334	(3)	**NSX800●** + **Micrologic 5.0 - LR off**	800	5000	**LC3F400**	**LR9F7379**	300…500

(1) IrD: current in the motor windings in delta connection.
(2) Irm: setting current of the magnetic trip.
(3) Products marketed under the Merlin Gerin brand. Reference to be completed by replacing the ● with the breaking performance code:

Breaking performance Iq (kA)	NSX100●MA		NSX160●MA, NSX250●MA		NSX400●, NSX630●		NS800●	
400/415 V	36	70	36	70	70	150	70	150
440 V	35	65	35	65	65	130	65	130
Code	**F**	**H**	**F**	**H**	**H**	**L**	**H**	**L**

*(4) For mounting 3 contactors **LC1 D●●A**, star-delta starter kit **LAD 9SD3** must be ordered separately, see page B8/30.*

TeSys motor starters - open version

Star-delta starters with circuit breaker, contactors and thermal overload relay

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

Maximum operating rate: LC3 D: 30 starts/hour; LC3 F: 12 starts/hour.
Maximum starting time: LC3 D: 30 seconds; LC3 F: 20 seconds.

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3						Circuit breaker			Star-delta contactors	Thermal overload relay	
400/415 V			440 V			Reference	Rating	Irm (1)	Reference	Reference	Setting range
P	Ie	Iq	P	Ie	Iq						
kW	A	kA	kW	A	kA		A	A			A
1.5	3.6	130	**1.5**	3.06	130	**GV2L08**	4	51	3 x **LC1D09**	**LRD08**	2.5…4
2.2 **3**	4.9 6.5	130 130	**2.2** **3**	4.42 5.77	130 130	**GV2L10**	6.3	78	3 x **LC1D09**	**LRD10**	4…6
–	–	–	**4**	7.9	20	**GV2L14**	10	138	3 x **LC1D18**	**LRD14**	7…10
4	8.5	130	–	–	–	**GV2L14**	10	138	3 x **LC1D18**	**LRD16**	9…13
5.5	11.5	50	**5.5**	10.4	20	**GV2L16**	14	170	3 x **LC1D25**	**LRD16**	9…13
7.5	15.5	50	**7.5**	13.7	20	**GV2L20**	18	223	3 x **LC1D25**	**LRD21**	12…18
–	–	–	**9**	16.9	20	**GV2L22**	25	327	3 x **LC1D25**	**LRD21**	12…18
9 **11**	18.1 22	50 50	– **11**	– 20.1	– 20	**GV2L22**	25	327	3 x **LC1D25**	**LRD22**	16…24
15	29	50	**15**	26.5	50	**GV3L32**	32	448	3 x **LC1D40A** (2)	**LRD332**	23…32
18.5	35	50	–	–	–	**GV3L40**	40	560	2 x **LC1D50A** +1 x **LC1D40A** (2)	**LRD340**	30…40
–	–	–	**18.5**	32.8	50	**GV3L40**	40	560	2 x **LC1D65A** +1 x **LC1D40A** (2)	**LRD340**	30…40
22	41	50	–	–	–	**GV3L50**	50	700	2 x **LC1D50A** +1 x **LC1D40A** (2)	**LRD350**	37…50
–	–	–	**22**	39	50	**GV3L50**	50	700	2 x **LC1D65A** +1 x **LC1D40A** (2)	**LRD350**	37…50
30	55	50	**30**	51.5	50	**GV3L65**	65	910	2 x **LC1D65A** +1 x **LC1D40A** (2)	**LRD365**	48…65
–	–	–	**37**	64	50	**GV3L65**	65	910	3 x **LC1D80**	**LRD3359**	48…65
37	66	100	–	–	–	**GV4L80**	80	640	3 x **LC1D80**	**LRD3363**	63…80
–	–	–	**45**	76	70	**GV4L80**	80	800	3 x **LC1D80**	**LRD3363**	63…80
45	80	100	–	–	–	**GV4L115**	115	805	3 x **LC1D115**	**LR9D5367**	60…100
–	–	–	**55**	90	70	**GV4L115**	115	920	3 x **LC1D115**	**LR9D5367**	60…100
55	97	100	–	–	–	**GV4L115**	115	920	3 x **LC1D115**	**LR9D5369**	90…150
55	97	(3)	–	–	–	**NSX160●MA** (3)	150	1200	3 x **LC1D115**	**LR9D5369**	90…150
–	–	–	**75**	125	(3)	**NSX160●MA** (3)	150	1200	3 x **LC1D150**	**LR9D5369**	90…150
75	132	(3)	**90**	146	(3)	**NSX160●MA** (3)	150	1200	3 x **LC1D150**	**LR9D5369**	90…150
90	160	(3)	**110**	178	(3)	**NSX250●MA** (3)	220	1760	3 x **LC1F185**	**LR9F5371**	132…220
110	195	(3)	–	–	–	**NSX250●MA** (3)	220	1760	3 x **LC1F225**	**LR9F5371**	132…220
–	–	–	**132**	215	(3)	**NSX250●MA** (3)	220	1760	3 x **LC1F225**	**LR9F7375**	200…330
132	230	(3)	**160**	256	(3)	**NSX400● + Micrologic 1.3M** (3)	320	2240	3 x **LC1F265**	**LR9F7375**	200…330
160	280	(3)	–	–	–	**NSX400● + Micrologic 1.3M** (3)	320	2560	3 x **LC1F330**	**LR9F7375**	200…330
–	–	–	**200**	321	(3)	**NSX400● + Micrologic 1.3M** (3)	320	2880	3 x **LC1F330**	**LR9F7379**	300…500
200	350	(3)	**220**	353	(3)	**NSX630● + Micrologic 1.3M** (3)	500	3150	3 x **LC1F400**	**LR9F7379**	300…500
220	388	(3)	**250**	401	(3)	**NSX630● + Micrologic 1.3M** (3)	500	3500	3 x **LC1F400**	**LR9F7379**	300…500
250	430	(3)	–	–	–	**NSX630● + Micrologic 1.3M** (3)	500	4000	3 x **LC1F500**	**LR9F7379**	300…500

(1) Irm: setting current of the magnetic trip.
*(2) For mounting 3 contactors **LC1 D●●A**, star-delta starter kit **LAD 9SD3** must be ordered separately, see page B8/30.*
(3) Products marketed under the Merlin Gerin brand. Reference to be completed by replacing the ● with the breaking performance code:

Breaking performance Iq (kA)	NSX100●MA		NSX160●MA, NSX250●MA		NSX400●, NSX630●	
400/415 V	36	70	36	70	70	150
440 V	35	65	35	65	65	130
Code	**F**	**H**	**F**	**H**	**H**	**L**