

# TeSys motor starters - open version

D.O.L starters with fuse protection (NF C or DIN fuses, type aM)

0.06 to 315 kW at 400/415 V: type 2 coordination											
Standard power ratings of 3-phase motors 50/60 Hz in category AC-3						Switch-disconnector	aM fuses		Contactor	Thermal overload relay classe 10	
400/415 V		440 V		500 V		Reference <sup>(1)</sup>	Size	Rating	Reference <sup>(2)</sup>	Reference	Setting range
P	I <sub>e</sub>	P	I <sub>e</sub>	P	I <sub>e</sub>			A			A
kW	A	kW	A	kW	A						
0.06	0.2	0.06	0.19	–	–	GS1DD	10 x 38	2	LC1D09	LRD02	0.16...0.25
–	–	0.09	0.28	–	–	GS1DD	10 x 38	2	LC1D09	LRD03	0.25...0.4
0.09	0.3	–	–	–	–						
0.12	0.44	0.12	0.37	–	–	GS1DD	10 x 38	2	LC1D09	LRD04	0.4...0.63
0.18	0.6	0.18	0.55	–	–						
–	–	0.25	0.76	–	–	GS1DD	10 x 38	2	LC1D09	LRD05	0.63...1
0.25	0.85	–	–	0.37	0.88						
0.37	1.1	0.37	1	0.55	1.2						
0.55	1.5	0.55	1.36	0.75	1.5	GS1DD	10 x 38	2	LC1D09	LRD06	1...1.7
0.75	1.9	0.75	1.68	–	–						
–	–	1.1	2.37	1.1	2.2	GS1DD	10 x 38	4	LC1D09	LRD07	1.6...2.5
1.1	2.7	–	–	1.5	2.9						
1.5	3.6	1.5	3.06	2.2	3.9	GS1DD	10 x 38	4	LC1D09	LRD08	2.5...4
2.2	4.9	2.2	4.42	3	5.2	GS1DD	10 x 38	6	LC1D09	LRD10	4...6
3	6.5	3	5.77	4	6.8	GS1DD	10 x 38	8	LC1D09	LRD12	5.5...8
4	8.5	4	7.9	5.5	9.2	GS1DD	10 x 38	10	LC1D09	LRD14	7...10
5.5	11.5	5.5	10.4	7.5	12.4	GS1DD	10 x 38	16	LC1D12	LRD16	9...13
7.5	15.5	7.5	13.7	9	13.9	GS1DD	10 x 38	16	LC1D18	LRD21	12...18
–	–	9	16.9	–	–	GS●F	14 x 51	20	LC1D25	LRD21	12...18
9	18.1	11	20.1	11	17.6						
11	22	–	–	15	23	GS●F	14 x 51	25	LC1D25	LRD22	16...24
15	29	15	26.5	18.5	28	GS●F	14 x 51	32	LC1D32	LRD32	23...32
18.5	35	18.5	32.8	22	33	GS●F	14 x 51	40	LC1D40A	LRD340	30...40
22	41	22	39	30	44	GS●J	22 x 58	50	LC1D50A	LRD350	37...50
–	–	30	51.5	–	–	GS●J	22 x 58	80	LC1D65A	LRD365	48...65
–	–	–	–	37	53	GS●J	22 x 58	80	LC1D65A	LRD365	48...65
30	55	37	64	–	–	GS●J	22 x 58	80	LC1D65A	LRD365	48...65
–	–	–	–	45	64	GS●J	22 x 58	80	LC1D95	LRD3361	55...70
–	–	–	–	55	78	GS●J	22 x 58	100	LC1D115	LR9D5367	60...100
45	80	–	–	–	–	GS●J	22 x 58	100	LC1D95	LRD3365	80...93
55	97	55	90	75	106	GS●L	T0	125	LC1D150	LR9D5369	90...150
75	132	75	125	90	128	GS●L	T0	160	LC1D150	LR9D5369	90...150
90	160	90	146	110	156	GS●N	T1	200	LC1F185	LR9F5371	132...220
110	195	110	178	132	184	GS●N	T1	250	LC1F225	LR9F5371	132...220
132	230	132	215	160	224	GS●QQ	T2	315	LC1F265	LR9F7375	200...330
–	–	160	256	–	–	GS●QQ	T2	315	LC1F330	LR9F7375	200...330
160	280	200	321	200	280	GS●QQ	T2	400	LC1F330	LR9F7375	200...330
–	–	–	–	220	310	GS●QQ	T2	400	LC1F400	LR9F7375	200...330
200	350	–	–	–	–						
220	388	220	353	250	344	GS2S	T3	500	LC1F400	LR9F7379	300...500
250	430	250	401	–	–	GS2S	T3	500	LC1F500	LR9F7379	300...500
–	–	–	–	315	432						
–	–	–	–	355	488	GS2S	T3	630	LC1F500	LR9F7381	380...630
315	540	315	505	–	–	GS2S	T3	630	LC1F630	LR9F7381	380...630
–	–	355	549	–	–						
–	–	400	611	400	552	GS2V	T4	800	LC1F630	LR9F7381	380...630

(1) GS●: GS1 for direct operator or GS2 for external operator.

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

# TeSys motor starters - open version

D.O.L starters with fuse protection (NF C or DIN fuses, type aM)

0.75 to 400 kW at 690 V: type 2 coordination							
Standard power ratings of 3-phase motors 50/60 Hz in category AC-3		Switch-disconnector	aM fuses		Contactor	Thermal overload relay classe 10	
P	I <sub>e</sub>	Reference <sup>(1)</sup>	Size	Rating	Reference <sup>(2)</sup>	Reference	Setting range
kW	A			A			A
0.75	1.1	GS●F	14 x 51	2	LC1D09	LRD06	1...1.6
1.1	1.6	GS●F	14 x 51	2	LC1D09	LRD06	1...1.6
1.5	2.1	GS●F	14 x 51	4	LC1D09	LRD07	1.6...2.5
2.2	2.8	GS●F	14 x 51	4	LC1D09	LRD08	2.5...4
3	3.8	GS●F	14 x 51	6	LC1D09	LRD08	2.5...4
4	4.9	GS●F	14 x 51	6	LC1D09	LRD10	4...6
5.5	6.7	GS●F	14 x 51	8	LC1D09	LRD12	5.5...8
7.5	8.9	GS●F	14 x 51	10	LC1D25	LRD16	9...13
11	12.8	GS●F	14 x 51	16	LC1D25	LRD16	9...13
15	17	GS●F	14 x 51	20	LC1D25	LRD22	16...24
18.5	21	GS●F	14 x 51	25	LC1D32	LRD22	16...24
22	24	GS●J	22 x 58	32	LC1D40A	LRD332	23...32
30	32	GS●J	22 x 58	40	LC1D40A	LRD340	30...40
37	39	GS●J	22 x 58	50	LC1D65A	LRD350	37...50
55	57	GS●J	22 x 58	80	LC1D115	LR2D3359	48...65
75	77	GS●KK	T00	100	LC1D115	LR2D3363	63...80
90	93	GS●KK	T00	125	LC1D150	LR9D5369	90...150
110	113	GS●KK	T00	125	LC1F185	LR9D5369	90...150
132	134	GS●L	T0	160	LC1F265	LR9F5371	132...220
160	162	GS●N	T1	200	LC1F265	LR9F5371	132...220
200	203	GS●N	T1	250	LC1F330	LR9F7375	200...330
220	224	GS●QQ	T2	250	LC1F400	LR9F7375	200...330
250	250	GS●QQ	T2	315	LC1F400	LR9F7375	200...330
315	313	GS●QQ	T2	355	LC1F500	LR9F7379	300...500
355	354	GS●QQ	T2	400	LC1F630	LR9F7379	300...500
400	400	GS2S	T3	500	LC1F630	LR9F7379	300...500

(1) GS●: GS1 for direct operator or GS2 for external operator.

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

# TeSys motor starters - open version

## D.O.L. starters with fuse protection (BS fuses)

0.06 to 375 kW at 415 V: type 2 coordination											
Standard power ratings of 3-phase motors 50/60 Hz in category AC-3						Switch-disconnector-fuse	BS fuses		Contactor	Thermal overload relay	
415 V		440 V		500 V		Reference	Size	Rating	Reference <sup>(1)</sup>	Reference	Setting range
P	I <sub>e</sub>	P	I <sub>e</sub>	P	I <sub>e</sub>						
kW	A	kW	A	kW	A		A			A	
0.06	0.22	0.06	0.19	–	–	GS1DDB	A1	NIT 2	LC1D09	LRD02	0.16...0.25
–	–	0.09	0.28	–	–	GS1DDB	A1	NIT 2	LC1D09	LRD03	0.25...0.4
0.09	0.36	–	–	–	–						
0.12	0.42	0.12	0.37	–	–	GS1DDB	A1	NIT 2	LC1D09	LRD04	0.4...0.63
0.18	0.6	0.18	0.55	–	–	GS1DDB	A1	NIT 2	LC1D09	LRD05	0.63...1
–	–	0.25	0.76	–	–	GS1DDB	A1	NIT 4	LC1D09	LRD05	0.63...1
0.25	0.88	0.37	1	0.37	1						
0.37	1	0.55	1.36	0.55	1.2						
0.55	1.5	0.75	1.68	0.75	1.5	GS1DDB	A1	NIT 6	LC1D09	LRD06	1...1.7
0.75	2	–	–	–	–	GS1DDB	A1	NIT 10	LC1D09	LRD07	1.6...2.5
–	–	–	–	1.5	2.6	GS1DDB	A1	NIT 10	LC1D09	LRD08	2.5...4
1.5	3.5	1.5	3.06	2.2	3.8	GS1DDB	A1	NIT 16	LC1D09	LRD08	2.5...4
2.2	5	2.2	4.42	3	5	GS1DDB	A1	NIT 16	LC1D09	LRD10	4...6
3	6.5	3	5.77	4	6.5	GS1DDB	A1	NIT 20	LC1D09	LRD12	5.5...8
4	8.4	4	7.9	5.5	9	GS1DDB	A1	NIT 20	LC1D09	LRD14	7...10
5.5	11	5.5	10.4	7.5	12	GS1DDB	A1	NIT 20M25	LC1D12	LRD16	9...13
7.5	14	7.5	13.7	9	13.9	GS1DDB	A1	NIT 20M32	LC1D18	LRD21	12...18
9	18.1	9	16.9	–	–	GS2GB	A2	TIA 32M35	LC1D18	LRD21	12...18
11	21	11	20	11	18.4						
–	–	–	–	15	23	GS2GB	A2	TIA 32M50	LC1D25	LRD22	16...24
15	28.5	15	26.5	–	–	GS2GB	A2	TIA 32M63	LC1D32	LRD32	23...32
–	–	–	–	22	33	GS2GB	A3	TIS 63M80	LC1D40	LRD3355	30...40
22	42	22	39	30	45	GS2GB	A3	TIS 63M100	LC1D50	LRD3357	37...50
–	–	30	51.5	–	–	GS2GB	A3	TIS 63M100	LC1D50	LRD3359	48...65
30	57	–	–	–	–	GS2GB	A3	TIS 63M100	LC1D65	LRD3359	48...65
45	81	–	–	55	80	GS2LLB	A4	TCP 100M125	LC1D95	LRD3365	80...93
55	100	–	–	–	–	GS2LLB	A4	TCP 100M160	LC1D115	LR9D5369	90...150
–	–	55	90	–	–	GS2LLB	A4	TCP 100M160	LC1D115	LR9D5367	60...100
–	–	–	–	80	116	GS2LB	B2	TF 200	LC1D150	LR9D5369	90...150
80	138	80	132	–	–	GS2LB	B2	TF 200M250	LC1D150	LR9D5369	90...150
–	–	–	–	100	143						
–	–	–	–	110	156	GS2LB	B2	TF 200M250	LC1F185	LR9F5371	132...220
100	182	100	162	–	–	GS2MMB	B2	TF 200M250	LC1F185	LR9F5371	132...220
110	196	110	178	–	–	GS2MMB	B2	TF 200M315	LC1F225	LR9F5371	132...220
–	–	–	–	140	200	GS2NB	B3	TKF 315M355	LC1F265	LR9F5371	132...220
140	250	140	226	160	220	GS2NB	B3	TKF 315M355	LC1F265	LR9F7375	200...330
160	285	160	256	–	–	GS2QQB	B4	TKF 315M355	LC1F330	LR9F7375	200...330
–	–	–	–	220	310	GS2QQB	B4	TMF 400	LC1F400	LR9F7379	300...500
220	388	220	353	257	362	GS2QQB	B4	TMF 400M450	LC1F400	LR9F7379	300...500
–	–	–	–	270	380	GS2SB	C2	TTM 500	LC1F500	LR9F7379	300...500
257	450	257	412	–	–						
270	460	270	433	–	–	GS2SB	C2	TTM 500	LC1F500	LR9F7381	380...630
375	610	375	577	375	508						
–	–	–	–	425	556	GS2SB	C2	TTM 630	LC1F630	LR9F7381	380...630

(1) 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 1 coordination											
Standard power ratings of 3-phase motors 50/60 Hz in category AC-3									Circuit breaker		Contactor
400/415 V			440 V			500 V			Reference	Setting range of thermal trips	Reference <sup>(2)</sup>
P	I <sub>e</sub>	I <sub>q</sub> <sup>(1)</sup>	P	I <sub>e</sub>	I <sub>q</sub> <sup>(1)</sup>	P	I <sub>e</sub>	I <sub>q</sub> <sup>(1)</sup>		A	
kW	A	kA	kW	A	kA	kW	A	kA			
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	GV2ME07	1.6...2.5	LC1K06 or LC1D09
1.1	2.7	50	–	–	–	1.5	2.9	50	GV2ME08	2.5...4	LC1K06 or LC1D09
1.5	3.6	50	1.5	3.06	50	2.2	3.9	50	GV2ME08	2.5...4	LC1K06 or LC1D09
2.2	4.9	50	2.2	4.42	50	–	–	–	GV2ME10	4...6.3	LC1K06 or LC1D09
–	–	–	3	5.77	50	3	5.2	50	GV2ME10	4...6.3	LC1K06 or LC1D09
3	6.5	50	–	–	–	4	6.8	10	GV2ME14	6...10	LC1K09 or LC1D09
4	8.5	50	4	7.9	15	5.5	9.2	10	GV2ME14	6...10	LC1K09 or LC1D09
5.5	11.5	15	5.5	10.4	8	7.5	12.4	6	GV2ME16	9...14	LC1K12 or LC1D12
7.5	15.5	15	7.5	13.7	8	9	13.9	6	GV2ME20	13...18	LC1D18
–	–	–	9	16.9	8	–	–	–	GV2ME20	13...18	LC1D18
9	18.1	15	11	20.1	6	11	17.6	4	GV2ME21	17...23	LC1D25
11	22	15	–	–	–	15	23	4	GV2ME22	20...25	LC1D25
15	29	10	15	26.5	6	18.5	28	4	GV2ME32	24...32	LC1D32
18.5	35	50	18.5	32.8	50	22	33	10	GV3P40	30...40	LC1D40A
22	41	50	22	39	50	30	44	10	GV3P50	37...50	LC1D50A
30	55	50	37	51.5	50	37	53	10	GV3P65	48...65	LC1D65A
–	–	–	37	64	25	45	64	18	GV7RE80	48...80	LC1D65A
45	80	25	–	–	–	–	–	–	GV7RE100	60...100	LC1D95
–	–	–	50	90	25	–	–	–	GV7RE100	60...100	LC1D115
55	97	25	–	–	–	75	106	30	GV7RE150	90...150	LC1D115
75	132	35	75	125	35	90	128	30	GV7RE150	90...150	LC1D150
–	–	–	90	146	35	–	–	–	GV7RE150	90...150	LC1F185
90	160	35	–	–	–	110	156	30	GV7RE220	132...220	LC1F185
–	–	–	–	–	–	132	184	30	GV7RE220	132...220	LC1F265
–	–	–	110	178	35	160	224	30	GV7RE220	132...220	LC1F265
110	195	35	132	215	35	–	–	–	GV7RE220	132...220	LC1F225

(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 by separate 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 <sub>rm</sub> <sup>(1)</sup>	Reference <sup>(2)</sup>	Reference	Setting range
P	I <sub>e</sub>	I <sub>q</sub>	P	I <sub>e</sub>	I <sub>q</sub>	P	I <sub>e</sub>	I <sub>q</sub>		A	A			A
kW	A	kA	kW	A	kA	kW	A	kA						
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	GV2LE05	1	13	LC1K06	LR2K0306	0.8...1.2
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	GV2LE06	1.6	22.5	LC1K06	LR2K0307	1.2...1.8
–	–	–	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	GV2LE07	2.5	33.5	LC1K06	LR2K0308	1.8...2.6
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<sub>rm</sub>: 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

and overload protection by separate 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 <sub>rm</sub> <sup>(1)</sup>	Reference <sup>(2)</sup>	Reference	Setting range
P	I <sub>e</sub>	I <sub>q</sub>	P	I <sub>e</sub>	I <sub>q</sub>	P	I <sub>e</sub>	I <sub>q</sub>		A	A			A
kW	A	kA	kW	A	kA	kW	A	kA						
30	55	50	37	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	80	<sup>(3)</sup>	-	-	-	-	-	-	NSX100●MA <sup>(3)</sup>	100	1300	LC1D95	LRD3365	80...104
-	-	-	-	-	-	50	90	<sup>(3)</sup>	NSX100●MA <sup>(3)</sup>	100	1200	LC1D115	LRD4365	80...104
-	-	-	-	-	-	75	106	<sup>(3)</sup>	NSX160●MA <sup>(3)</sup>	150	1500	LC1D115	LRD4367	95...120
55	97	<sup>(3)</sup>	-	-	-	-	-	-	NSX160●MA <sup>(3)</sup>	150	1350	LC1D115	LRD4367	95...120
75	132	<sup>(3)</sup>	75	125	<sup>(3)</sup>	90	128	<sup>(3)</sup>	NSX160●MA <sup>(3)</sup>	150	1800	LC1D150	LRD4369	110...140
-	-	-	90	146	<sup>(3)</sup>	-	-	-	NSX160●MA <sup>(3)</sup>	150	1950	LC1F185	LR9F5371	132...220
90	160	<sup>(3)</sup>	-	-	-	110	156	<sup>(3)</sup>	NSX250●MA <sup>(3)</sup>	220	2200	LC1F185	LR9F5371	132...220
110	195	<sup>(3)</sup>	-	-	-	-	-	-	NSX250●MA <sup>(3)</sup>	220	2640	LC1F225	LR9F5371	132...220
-	-	-	110	178	<sup>(3)</sup>	-	-	-	NSX250●MA <sup>(3)</sup>	220	2420	LC1F225	LR9F5371	132...220
-	-	-	-	-	-	132	184	<sup>(3)</sup>	NSX250●MA <sup>(3)</sup>	220	2640	LC1F265	LR9F5371	132...220
-	-	-	132	215	<sup>(3)</sup>	-	-	-	NSX250●MA <sup>(3)</sup>	220	2860	LC1F265	LR9F5371	132...220
132	230	<sup>(3)</sup>	-	-	-	-	-	-	NSX400● + Micrologic 1.3M <sup>(3)</sup>	320	3200	LC1F265	LR9F7375	200...330
-	-	-	-	-	-	160	224	<sup>(3)</sup>	NSX400● + Micrologic 1.3M <sup>(3)</sup>	320	2860	LC1F265	LR9F7375	200...330
-	-	-	160	256	<sup>(3)</sup>	-	-	-	NSX400● + Micrologic 1.3M <sup>(3)</sup>	320	3520	LC1F330	LR9F7375	200...330
160	280	<sup>(3)</sup>	200	321	<sup>(3)</sup>	-	-	-	NSX400● + Micrologic 1.3M <sup>(3)</sup>	320	4160	LC1F330	LR9F7375	200...330
-	-	-	-	-	-	200	280	<sup>(3)</sup>	NSX400● + Micrologic 1.3M <sup>(3)</sup>	320	3840	LC1F330	LR9F7375	200...330
-	-	-	-	-	-	220	310	<sup>(3)</sup>	NSX400● + Micrologic 1.3M <sup>(3)</sup>	320	4160	LC1F400	LR9F7379	300...500
200	350	<sup>(3)</sup>	220	353	<sup>(3)</sup>	-	-	-	NSX630● + Micrologic 1.3M <sup>(3)</sup>	500	5000	LC1F400	LR9F7379	300...500
-	-	-	250	401	<sup>(3)</sup>	-	-	-	NSX630● + Micrologic 1.3M <sup>(3)</sup>	500	5550	LC1F400	LR9F7379	300...500
-	-	-	-	-	-	250	344	<sup>(3)</sup>	NSX630● + Micrologic 1.3M <sup>(3)</sup>	500	5000	LC1F400	LR9F7379	300...500
220	388	<sup>(3)</sup>	-	-	-	-	-	-	NSX630● + Micrologic 1.3M <sup>(3)</sup>	500	5500	LC1F400	LR9F7379	300...500
250	430	<sup>(3)</sup>	280	470	<sup>(3)</sup>	315	432	<sup>(3)</sup>	NSX630● + Micrologic 1.3M <sup>(3)</sup>	500	6000	LC1F500	LR9F7379	300...500
-	-	-	-	-	-	355	488	<sup>(3)</sup>	NSX630● + Micrologic 1.3M <sup>(3)</sup>	500	6500	LC1F500	LR9F7381	380...630

(1) I<sub>rm</sub>: 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 <sub>q</sub> (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

## Technical Data for Designers

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#### TeSys D Green – contactors

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#### TeSys D Green – reversing contactors

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## Characteristics

# TeSys D Green

## Contactors with AC/DC coil

Environment			D09...D18	D25...D38	D40A...D65A DT60A and DT80A	D80A
Rated insulation voltage (Ui)	Conforming to IEC 60947-4-1, overvoltage category III, degree of pollution: 3	V	690			1000
	Conforming to UL, CSA	V	600			
Rated impulse withstand voltage (Uimp)	Conforming to IEC 60947	kV	6			8
Conforming to standards			IEC/EN 60947-4-1, IEC/EN 60947-5-1, UL 508, CSA C22.2 n°14.			
Product certifications			UL <sup>(1)</sup>			
Degree of protection <sup>(2)</sup> (front face)	Conforming to IEC 60529					
	Power circuit connections		Protection against direct finger contact IP20			
	Coil connection		Protection against direct finger contact IP20			
Protective treatment	Conforming to IEC 60068-2-30		"TH"			
Ambient air temperature around the device	Storage	°C	-60...+80			
	Operation	°C	-5...+60			
	Permissible	°C	-40...+70, for operation at U <sub>c</sub>			
Maximum operating altitude	Without derating	m	3000			
Operating positions <sup>(3)</sup>	Without derating in the following positions		<p>AC/DC</p>			
Flame resistance	Conforming to UL 94		V1			
	Conforming to IEC 60695-2-1	°C	850			
Shock resistance <sup>(4)</sup> 1/2 sine wave = 11 ms	Contactor open		10 gn	8 gn	10 gn	8 gn
	Contactor closed		15 gn	15 gn	15 gn	10 gn
Vibration resistance <sup>(4)</sup> 5...300 Hz	Contactor open		2 gn			
	Contactor closed		4 gn	4 gn	4 gn	3 gn

<sup>(1)</sup> UL certified contactors available mid 2017, other certifications by end of 2017 (see data sheet on our web portal).

<sup>(2)</sup> Protection provided for the cabling c.s.a.'s indicated on the next page and for connection by cable. For lug type: add a protective cover.

<sup>(3)</sup> When mounting on a vertical rail, use a stop.

<sup>(4)</sup> Without modifying the contact states, in the most unfavourable direction (coil energised at U<sub>e</sub>).

# TeSys D Green

## Contactors with AC/DC coil

### Pole characteristics

Contactor type		LC1	D09 (3P)	D12 (3P)	D18 (3P)	D25 (3P)	
Rated operational current (Ie) (Ue ≤ 440 V)	In AC-3, θ ≤ 60 °C	<b>A</b>	9	12	18	25	
	In AC-1, θ ≤ 60 °C	<b>A</b>	25 <sup>(1)</sup>	25 <sup>(1)</sup>	32 <sup>(1)</sup>	40 <sup>(1)</sup>	
Rated operational voltage (Ue)	Up to	<b>V</b>	690	690	690	690	
Frequency limits	Of the operational current	<b>Hz</b>	25...400	25...400	25...400	25...400	
Conventional thermal current (Ith)	θ ≤ 60 °C	<b>A</b>	25 <sup>(1)</sup>	25 <sup>(1)</sup>	32 <sup>(1)</sup>	40 <sup>(1)</sup>	
Rated making capacity (440 V)	Conforming to IEC 60947	<b>A</b>	250	250	300	450	
Rated breaking capacity (440 V)	Conforming to IEC 60947	<b>A</b>	250	250	300	450	
Permissible short time rating No current flowing for preceding 15 minutes with θ ≤ 40 °C	For 1 s	<b>A</b>	210	210	240	380	
	For 10 s	<b>A</b>	105	105	145	240	
	For 1 min	<b>A</b>	61	61	84	120	
	For 10 min	<b>A</b>	30	30	40	50	
Fuse protection against short-circuits (U ≤ 690 V)	Without thermal overload relay, gG fuse	type 1	<b>A</b>	25	40	50	63
		type 2	<b>A</b>	20	25	35	40
	With thermal overload relay	<b>A</b>	See pages B11/4 and B11/5, for aM or gG fuse ratings corresponding to the associated thermal overload relay				
Average impedance per pole	At Ith and 50 Hz	<b>mΩ</b>	2.5	2.5	2.5	2	
Power dissipation per pole for the above operational currents	AC-3	<b>W</b>	0.20	0.36	0.8	1.25	
	AC-1	<b>W</b>	1.56	1.56	2.5	3.2	

### Electronic coil circuit characteristics

Rated control circuit voltage (Uc)	<b>V</b>	AC 24...415 V DC 24...500 V
Operation		0.85Uc mini ... 1.1Uc maxi at 60°C in AC or DC
Drop-out		0.1Un max...(eg. 100 to 250 V = 25 V) at 60°C

### Associated contactors

#### T1, T2 (LC1D09 ... D25)

Coil Code		BNE	EHE	KUE	
Coil rating	<b>V</b>	24-60	48-130	100-250	
AC supply at 20 °C	Consumption inrush	<b>VA</b>	15	25	25
	Consumption sealed	<b>VA</b>	1.1	1.4	1.4
	Consumption sealed	<b>mA</b>	28	15	9
	Heat dissipation	<b>W</b>	0.6	0.8	1.1
DC supply at 20 °C	Consumption inrush	<b>W</b>	15	24	18
	Consumption sealed	<b>mA</b>	23	13	7
	Heat dissipation	<b>W</b>	0.7	0.8	1.3
Max operating time <sup>(2)</sup>	Closing «C»	<b>ms</b>	50 ±5 ms		
	Opening «O»	<b>ms</b>	25 ±5 ms		
EMC emission	IEC 60947-4-1 §9.4.3		environment A <sup>(1)</sup>		
Maximum operating rate at ambient temperature ≤ 60 °C		<b>cycle/h</b>	3600		
Mechanical durability at Uc	In millions of operating cycles		See datasheet in schneider-electric.com website.		

<sup>(1)</sup> If use environment B, may cause radio interference, an additional mitigation solution could be requested.

<sup>(2)</sup> The closing time "C" is measured from the moment the coil supply is switched on to closure of the main poles. The opening time "O" is measured from the moment the coil supply is switched off to the moment the main poles separate.

## Characteristics

# TeSys D Green

## Contactors with AC/DC coil

D32	D38	D40A	DT60A	D50A	D65A	DT80A	D80A
32	38	40	–	50	65	80	80
50 <sup>(1)</sup>	50	60	60	80	80	80	80
690	690	690	690	690	690	690	690
25...400	25...400	25...400	25...400	25...400	25...400	25...400	25...400
50	50	60	60	80	80	80	80
550	550	800	800	900	1000	1000	1000
550	550	800	800	900	1000	1100	1100
430	430	720	720	810	900	900	900
260	310	320	320	400	520	520	520
138	150	165	165	208	260	260	160
60	60	72	72	84	110	110	110
63	63	80	80	100	125	125	125
63	63	80	80	100	125	125	125

See pages B11/4 and B11/5 of TeSys global catalogue for aM or gG fuse ratings corresponding to the associated thermal overload relay

2	2	1.5	1.6	1.5	1.5	1.5	1.5
2	3	2.4	–	3.7	6.3	6.3	6.3
5	5	5.4	5.8	9.6	9.6	9.6	9.6

AC 24...415 V DC 24...500 V			AC 24...415 V DC 24...500 V			
0.85Uc mini 1.1Uc maxi at 60°C in AC or DC			0.8Uc mini 1.2Uc maxi at 60 °C		0.85Uc mini 1.1Uc maxi at 60 °C in AC or DC	
0.1Un max...(eg. 100 to 250 V = 25 V)			0.1 Un max...(eg. 100 to 250 V = 25 V)			
<b>T1, T2 (LC1D32...D38)</b>			<b>T3 (LC1D40A...80A, LC1DT60A, LC1DT80A)</b>			
BNE	EHE	KUE	BBE	BNE	EHE	KUE
24-60	48-130	100-250	24 (DC)	24-60	48-130	100-250
15	25	25	-	15	23	18
1.1	1.4	1.4	-	1.2	1.5	1.9
28	15	9	-	35	17	9.5
0.6	0.8	1.1	-	0.8	0.9	1.3
15	24	18	11	16	19	14
23	13	7	20	30	15	7.7
0.7	0.8	1.3	0.5	0.9	0.9	1.4
50 ±5 ms			60 ±5 ms			
25 ± 5 ms			25 ±5 ms			
environment A <sup>(1)</sup>						
3600						

(1) If use environment classe B, may cause radio interference, an additional mitigation solution could be requested.

(2) The closing time "C" is measured from the moment the coil supply is switched on to closure of the main poles. The opening time "O" is measured from the moment the coil supply is switched off to the moment the main poles separate.

# TeSys D Green

## Contactors with AC/DC coil

Power circuit connections									
Screw clamp terminal connections									
Contactor type		LC1	D09 and D12	D18 (3P)	D25 (3P)	D32	D38	D18 and D25 (4P)	D40A to D80A DT60A and DT80A <sup>(1)</sup>
Tightening			Screw clamp terminals					Connector 2 inputs	Screw clamp terminals
Flexible cable without cable end	1 conductor	mm <sup>2</sup>	1...4	1.5...6	2.5...10			2.5...10	1...35
	2 conductors	mm <sup>2</sup>	1...4	1.5...6	2.5...10			2.5...10	1...25 and 1...35
Flexible cable with cable end	1 conductor	mm <sup>2</sup>	1...4	1...6	1...10			2.5...10	1...35
	2 conductors	mm <sup>2</sup>	1...2.5	1...4	1.5...6			2.5...10	1...25 and 1...35
Solid cable without cable end	1 conductor	mm <sup>2</sup>	1...4	1.5...6	1.5...10			2.5...16	1...35
	2 conductors	mm <sup>2</sup>	1...4	1.5...6	2.5...10			2.5...16	1...25 and 1...35
Screwdriver	Philips		N° 2	N° 2	N° 2			N° 2	–
	Flat screwdriver Ø		Ø6	Ø6	Ø6			Ø6	–
Hexagonal key			–	–	–			–	4
Tightening torque		N.m	1.7	1.7	2.5			1.8	5: ≤ 25 mm <sup>2</sup> 8: 35 mm <sup>2</sup>

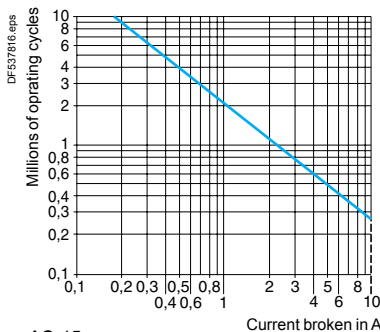
Control circuit connections									
Connection by cable (tightening via screw clamps)									
Flexible cable without cable end	1 conductor	mm <sup>2</sup>	1...4	1...4	1...4	1...4		1...4	1...4
	2 conductors	mm <sup>2</sup>	1...4	1...4	1...4	1...4		1...4	1...4
Flexible cable with cable end	1 conductor	mm <sup>2</sup>	1...4	1...4	1...4	1...4		1...4	1...4
	2 conductors	mm <sup>2</sup>	1...2.5	1...2.5	1...2.5	1...2.5		1...2.5	1...2.5
Solid cable without cable end	1 conductor	mm <sup>2</sup>	1...4	1...4	1...4	1...4		1...4	1...4
	2 conductors	mm <sup>2</sup>	1...4	1...4	1...4	1...4		1...4	1...4
Screwdriver	Philips		N° 2	N° 2	N° 2	N° 2		N° 2	N° 2
	Flat screwdriver Ø		Ø6	Ø6	Ø6	Ø6		Ø6	Ø6
Tightening torque		N.m	1.7	1.7	1.7	1.7		1.7	1.7

<sup>(1)</sup> BTR screws: hexagon socket head. In accordance with local electrical wiring regulations, a size 4 insulated Allen key must be used (reference LAD ALLENA, see page "References", page 14).

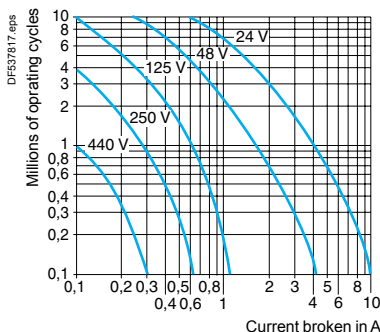
# TeSys D Green

## Contactors with AC/DC coil

Characteristics of auxiliary contacts incorporated in the contactor				
Mechanically linked contacts	Conforming to IEC 60947-5-1		Each contactor has 2 N/O and N/C contacts mechanically linked on the same movable contact holder	
Mirror contact	Conforming to IEC 60947-4-1		The N/C contact on each contactor represents the state of the power contacts and can be connected to a PREVENTA safety module	
Rated operational voltage (Ue)	Up to	V	690	
Rated insulation voltage (Ui)	Conforming to IEC 60947-1	V	690	
	Conforming to UL, CSA	V	600	
Conventional thermal current (Ith)	For ambient temperature ≤ 60 °C	A	10	
Frequency of the operational current		Hz	25...400	
Minimum switching capacity λ = 10 <sup>-8</sup>	U min	V	17	
	I min	mA	5	
Short-circuit protection	Conforming to IEC 60947-5-1		gG fuse: 10 A	
Rated making capacity	Conforming to IEC 60947-5-1, I rms	A	~: 140, ---: 250	
Short-time rating	Permissible for	1 s	A	100
		500 ms	A	120
		100 ms	A	140
Insulation resistance		MΩ	> 10	
Non-overlap time	Guaranteed between N/C and N/O contacts	ms	1.5 (on energisation and on de-energisation)	



AC-15



DC-13

### Operational power of contacts conforming to IEC 60947-5-1 a.c. supply, categories AC-14 and AC-15

Electrical durability (valid for up to 3600 operating cycles/hour) on an inductive load such as the coil of an electromagnet: making current (cos φ 0.7) = 10 times the power broken (cos φ 0.4).

Operating cycles	V	24	48	115	230	400	440	600
1 million	VA	60	120	280	560	960	1050	1440
3 million	VA	16	32	80	160	280	300	420
10 million	VA	4	8	20	40	70	80	100

### d.c. supply, category DC-13

Electrical durability (valid for up to 1200 operating cycles/hour) on an inductive load such as the coil of an electromagnet, without economy resistor, the time constant increasing with the load.

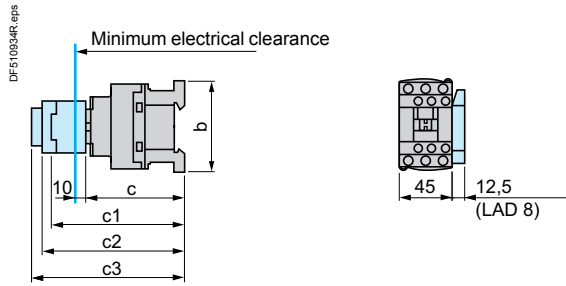
Operating cycles	V	24	48	125	250	440
1 million	W	96	76	76	76	44
3 million	W	48	38	38	32	—
10 million	W	14	12	12	—	—

## Dimensions

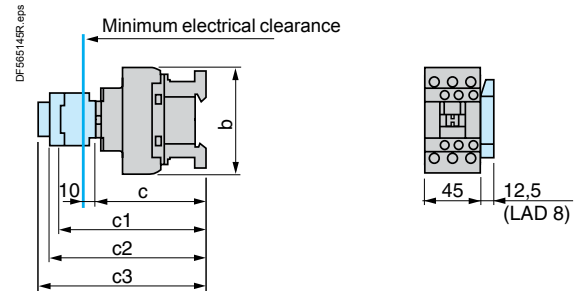
# TeSys D Green

## Contactors with AC/DC coil

### LC1 D09...D18 (3-pole), with AC/DC compatible coil

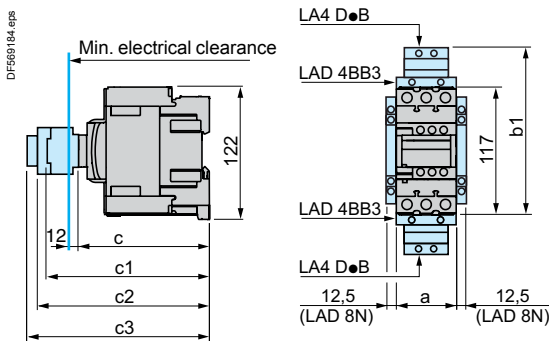


### LC1 D25...D38 (3-pole), with AC/DC compatible coil



LC1	D09...D18	D25...D38
b without add-on blocks	77	85
c without cover or add-on blocks	84	90
with cover, without add-on blocks	86	92
c1 with LAD N or C (2 or 4 contacts)	117	123
c2 with LA6 DK10	129	135
c3 with LAD T, R, S	137	143
with LAD T, R, S and sealing cover	141	147

### LC1 D40A...D80A (3-pole), LC1 DT60A...DT80A (4-pole), with AC/DC compatible coil



LC1	D40A...D65A	DT60A...DT80A
a	55	70
b1 LAD 4BB3	136	–
with LAD4DWB	166	–
c without cover or add-on blocks	118	118
with cover, without add-on blocks	120	120
c1 with LAD N (1 contact)	–	–
with LAD N or C (2 or 4 contacts)	150	150
c2 with LAD 6K10	163	163
c3 with LAD T, R, S	171	171
with LAD T, R, S and sealing cover	175	175

## Mounting

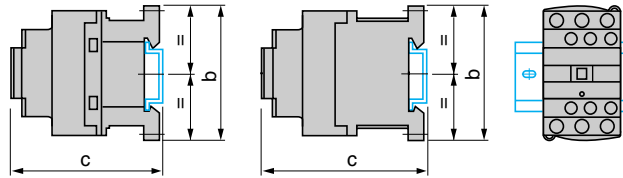
# TeSys D Green

## Contactors with AC/DC coil

**LC1 D09...D38 (3-pole),  
with AC/DC compatible coil**

On mounting rail AM1 DP200, DR200 or AM1 DE200 (width 35 mm)

8106510.eps

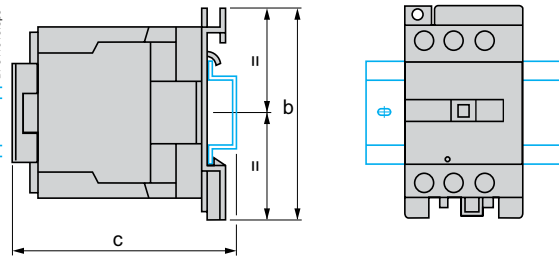


**LC1 D40A...D80A (3-pole), LC1 DT60A and DT80A (4-pole),  
with AC/DC compatible coil**

On mounting rail AM1 DL200 or DL201 (width 75 mm) <sup>(2)</sup>

On mounting rail AM1 ED●●● or AM1 DE200 (width 35 mm)

DF511013.eps



LC1	D09...D18	D25...D38
b	77	85
c (AM1 DP200 or DR200)	88	94
c (AM1 DE200)	96	102

LC1	D40A...D65A DT60A...DT80A
b	122
c (AM1 DL200)	–
c (AM1 DL201)	–
c (AM1 ED●●● or DE200)	128

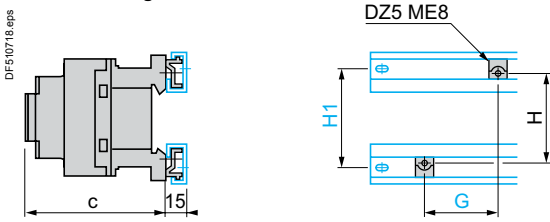
# Mounting

## TeSys D Green

### Contactors with AC/DC coil

#### LC1 D09...D38 (3-pole), with AC/DC compatible coil

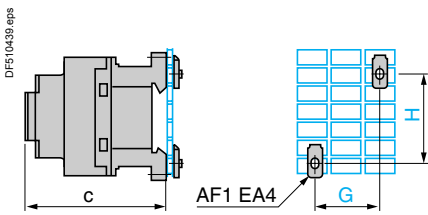
On 2 mounting rails DZ5 MB



LC1	D09...D18	D25...D38
c with cover	86	92
G	35	35
H	60	60
H1	70	70

#### LC1 D09...D38 (3-pole), with AC/DC compatible coil

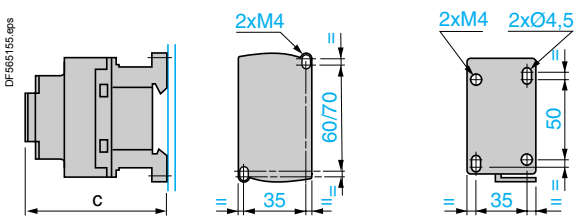
On pre-slotted mounting plate AM1 PA, PB, PC



LC1	D09...D18	D25...D38
c with cover	86	92
G	35	35
H	60/70	60/70

#### LC1 D09...D38 (3-pole), with AC/DC compatible coil

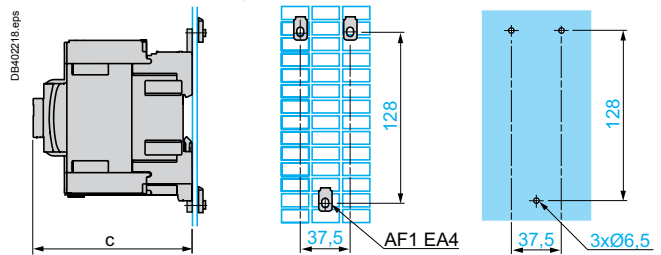
Panel mounted



LC1	D09...D18	D25...D38
c with cover	86	92

#### LC1 D40A...D80A (3-pole), LC1 DT60A...DT80A (4-pole), with AC/DC compatible coil

On pre-slotted mounting plate AM1 PA, PB, PC and panel mounted



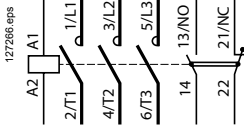
LC1	D40A...D80A, DT60A...DT80A
c with cover	120



### Contactors

**3-pole contactors** (References: pages 6 to 9)

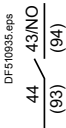
LC1 D09 to D80A



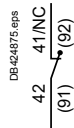
### Front mounting add-on contact blocks

**Instantaneous auxiliary contacts** (References: page 10)

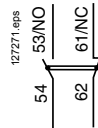
1 N/O LAD N10 <sup>(1)</sup>



1 N/C LAD N01 <sup>(1)</sup>



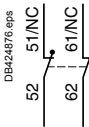
1 N/O + 1 N/C LAD N11



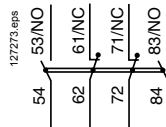
2 N/O LAD N20



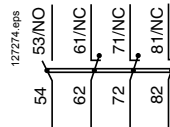
2 N/C LAD N02



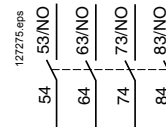
2 N/O + 2 N/C LAD N22



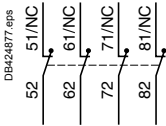
1 N/O + 3 N/C LAD N13



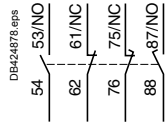
4 N/O LAD N40



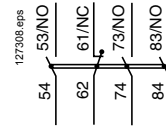
4 N/C LAD N04



2 N/O + 2 N/C including 1 N/O + 1 N/C make before break LAD C22

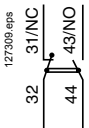


3 N/O + 1 N/C LAD N31

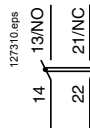


### Instantaneous auxiliary contacts conforming to standard EN 50012 (References: page 10)

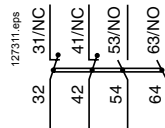
1 N/O + 1 N/C LAD N11G



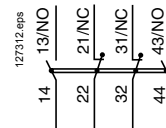
1 N/O + 1 N/C LAD N11P



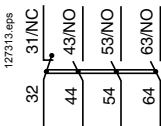
2 N/O + 2 N/C LAD N22G



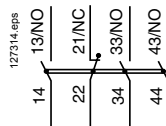
2 N/O + 2 N/C LAD N22P



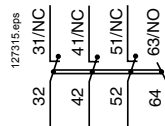
3 N/O + 1 N/C LAD N31G



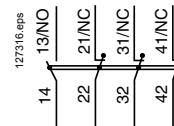
3 N/O + 1 N/C LAD N31P



1 N/O + 3 N/C LAD N13G



1 N/O + 3 N/C LAD N13P



(1) Items in brackets refer to blocks mounted on right-hand side of contactor.

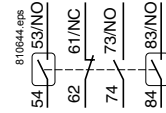
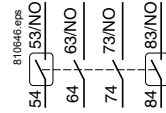
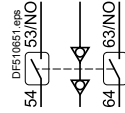
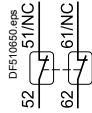
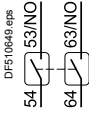
# TeSys D Green

## Contactors with AC/DC coil

### Front mounting add-on contact blocks

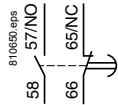
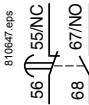
Dust and damp protected instantaneous auxiliary contacts (References: page 10)

2 N/O (24-50 V) LA1 DX20	2 N/C (24-50 V) LA1 DX02	2 N/O (5-24 V) LA1 DY20	2 N/O protected (24-50 V) 2 N/O standard LA1 DZ40	2 N/O protected (24-50 V) + 1 N/O + 1 N/C standard LA1 DZ31
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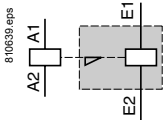
### Time delay auxiliary contacts (References: page 11)

On-delay 1 N/O + 1 N/C LAD T	Off-delay 1 N/O + 1 N/C LAD R	On-delay 1 N/C + 1 N/O break before make LAD S
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### Mechanical latch blocks (References: page 11)

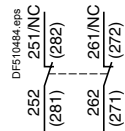
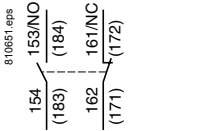
LAD 6K10 and LA6 DK20



### Side mounting add-on contact blocks

Instantaneous auxiliary contacts (References: page 10)

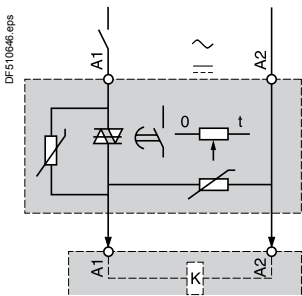
1 N/O + 1 N/C LAD 8N11 <sup>(1)</sup>	2 N/O LAD 8N20 <sup>(1)</sup>	2 N/O LAD 8N02 <sup>(1)</sup>
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<sup>(1)</sup> Items in brackets refer to blocks mounted on right-hand side of contactor.

### Electronic serial timer modules

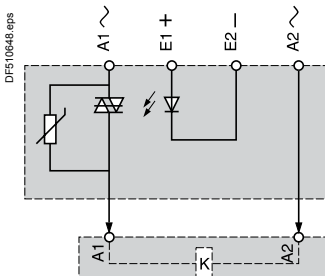
On-delay LA4 DT•U



### Interface modules

Solid state

LA4 DWB

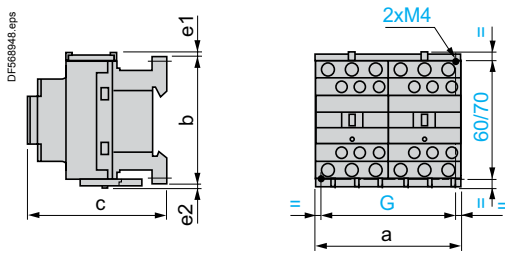


## Dimensions

# TeSys D Green

## Reversing contactors with electronic coil

### LC2 D09 to D38 with electronic coil - composed of 2 x LC1D09 to D38 (3-pole)

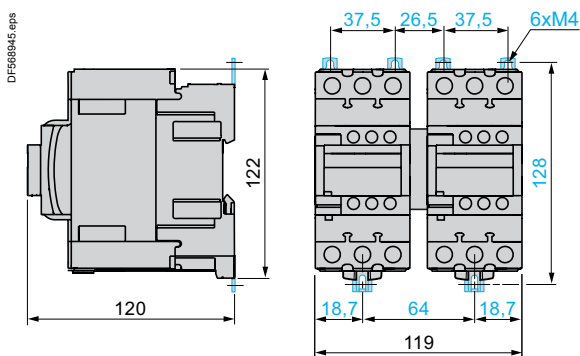


	a	b	c <sup>(1)</sup>	e1	e2	G
<b>D09 to D18</b>	90	77	86	4	1.5	<b>80</b>
<b>D25 to D38</b>	90	85	92	9	5	<b>80</b>

e1 and e2: including cabling.

(1) With safety cover, without add-on block.

### LC2 D40A to D80A with electronic coil - composed of 2 x LC1D40A to D80A (3-pole)



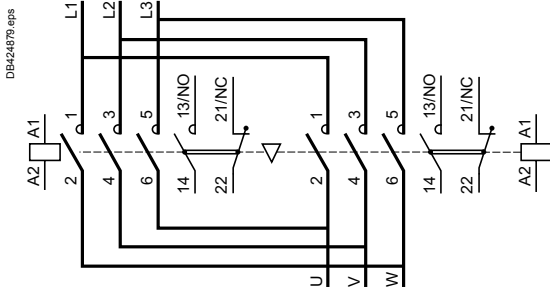
# TeSys D Green

## Reversing contactors with AC/DC coil

### Reversing contactors for motor control

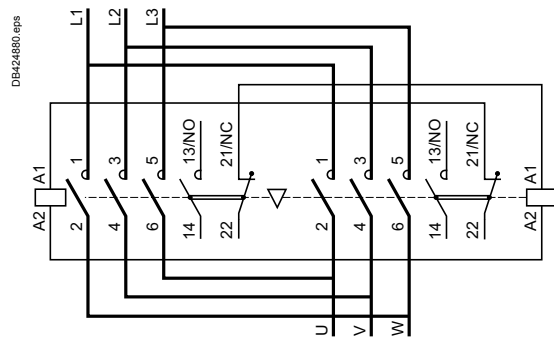
LC2 D09...D80A

Horizontally mounted



LAD 9R1V

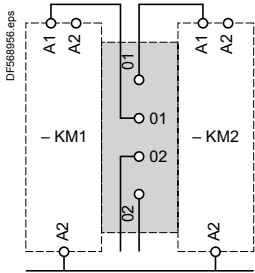
With integral electrical interlocking



### Electrical interlocking of reversing contactors fitted with:

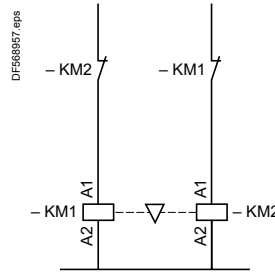
Mechanical interlock with integral electrical contacts

LA9 D4002, LA9 D8002 and LA9 D11502

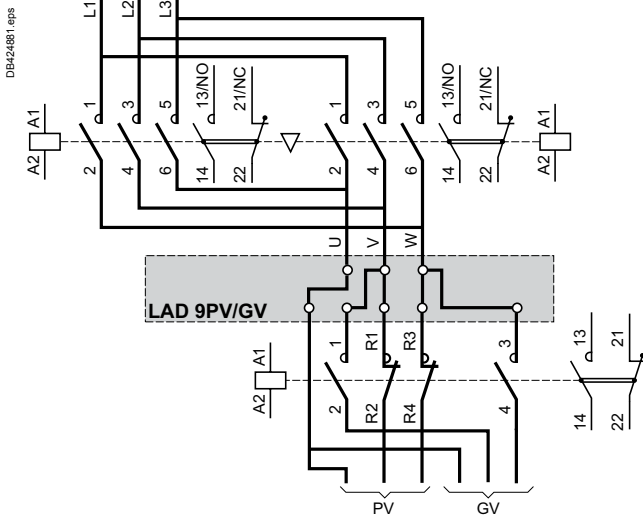


Mechanical interlock without integral electrical contacts

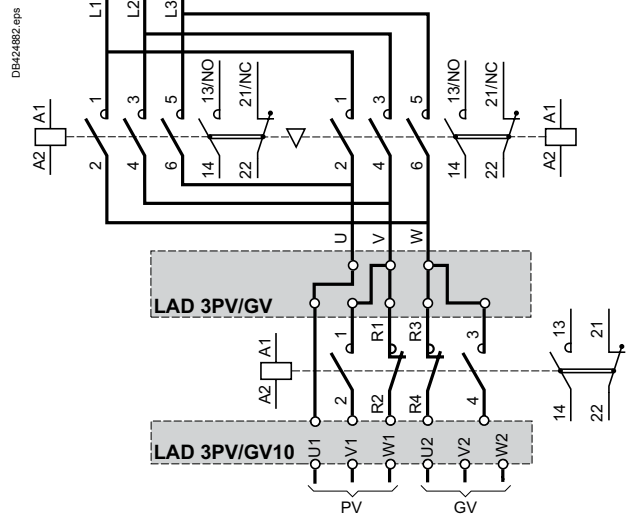
LAD 9V2, LAD 4CM, LA9 D50978 and LA9 D80978



### Low speed - High speed cabling kit, screw clamp terminals



### Low speed - High speed cabling kit, spring terminals



# Notes

# Notes



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