

MOTOR STARTER SELECTION GUIDE

Average Full - Load Current of 3 - Phase Squirrel Cage Motors

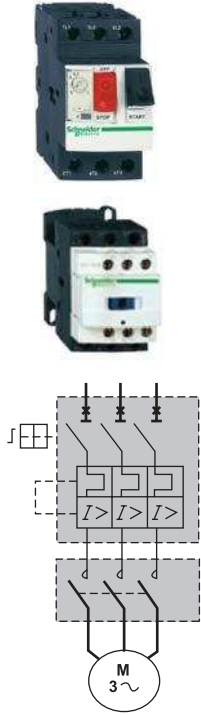
Power In Volts		200/208	220	230 (1)	380	400	415	433/440	460 (1)	500/525	575 (1)	660	690	750	1000
kW	HP	A	A	A	A	A	A	A	A	A	A	A	A	A	A
0.37	0.5	2	1.8	2	1.03	0.98	-	0.99	1	1	0.8	0.6	-	-	0.4
0.55	0.75	3	2.75	2.8	1.6	1.5	-	1.36	1.4	1.21	1.1	0.9	-	-	0.6
0.75	1	3.8	3.5	3.6	2	1.9	2	1.68	1.8	1.5	1.4	1.1	-	-	0.75
1.1	1.5	5	4.4	5.2	2.6	2.5	2.5	2.37	2.6	2	2.1	1.5	-	-	1
1.5	2	6.8	6.1	6.8	3.5	3.4	3.5	3.06	3.4	2.6	2.7	2	-	-	1.3
2.2	3	9.6	8.7	9.6	5	4.8	5	4.42	4.8	3.8	3.9	2.8	-	-	1.9
3	-	12.6	11.5	-	6.6	6.3	6.5	5.77	-	5	-	3.8	3.5	-	2.5
-	5	-	-	15.2	-	-	-	-	7.6	-	6.1	-	-	-	3
4	-	16.2	14.5	-	8.5	8.1	8.4	7.9	-	6.5	-	4.9	4.9	-	3.3
5.5	7.5	22	20	22	11.5	11	11	10.4	11	9	9	6.6	6.7	-	4.5
7.5	10	28.8	27	28	15.5	14.8	14	13.7	14	12	11	6.9	9	-	6
9	-	36	32	-	18.5	18.1	17	16.9	-	13.9	-	10.6	10.5	-	7
11	15	42	39	42	22	21	21	20.1	21	18.4	17	14	12.1	11	9
15	20	57	52	54	30	28.5	28	26.5	27	23	22	17.3	16.5	15	12
18.5	25	70	64	68	37	35	35	32.8	34	28.5	27	21.9	20.2	18.5	14.5
22	30	84	75	80	44	42	40	39	40	33	32	25.4	24.2	22	17
30	40	114	103	104	60	57	55	51.5	52	45	41	54.6	33	30	23
37	50	138	126	130	72	69	66	64	65	55	52	42	40	36	28
45	60	162	150	154	85	81	80	76	77	65	62	49	46.8	42	33
55	75	200	182	192	105	100	100	90	96	80	77	61	58	52	40
75	100	270	240	248	138	131	135	125	124	105	99	82	75.7	69	53
90	125	330	295	312	170	162	165	146	156	129	125	98	94	85	65
110	150	400	356	360	205	195	200	178	180	156	144	118	113	103	78
132	-	480	425	-	245	233	240	215	-	187	-	140	135	123	90
-	200	520	472	480	273	222	260	236	240	207	192	152	-	136	100
160	-	560	520	-	300	285	280	256	-	220	-	170	165	150	115
-	250	-	-	600	-	-	-	-	300	-	240	200	-	-	138
200	-	680	626	-	370	352	340	321	-	281	-	215	203	185	150
220	300	770	700	720	408	388	385	353	360	310	288	235	224	204	160
250	350	850	800	840	460	437	425	401	420	360	336	274	253	230	200
280	-	-	-	-	528	-	-	-	-	-	-	-	-	-	220
315	-	1070	990	-	584	555	535	505	-	445	-	337	321	292	239
-	450	-	-	1080	-	-	-	-	540	-	432	-	-	-	250
355	-	-	1150	-	635	605	580	549	-	500	-	370	350	318	262
-	500	-	-	1200	-	-	-	-	600	-	480	-	-	-	273
400	-	-	1250	-	710	675	650	611	-	540	-	410	390	356	288
450	600	-	-	1440	-	-	-	-	720	-	576	-	-	-	320
500	-	-	1570	-	900	855	820	780	-	680	-	515	494	450	350
560	-	-	1760	-	1000	950	920	870	-	760	-	575	549	500	380
630	-	-	1980	-	1100	1045	1020	965	-	850	-	645	605	550	425
710	-	-	-	-	1260	1200	1140	1075	-	960	-	725	694	630	480
800	1090	-	-	-	1450	-	1320	1250	-	1100	-	830	790	-	550
900	1220	-	-	-	1610	-	1470	1390	-	1220	-	925	880	-	610

Note : (1) Values conforming to the NEC (National Electrical Code)
 These values are given as a guide. They may vary depending on the type of motor and manufacturer

Unit price (excl. VAT) in USD

2 Components - Cấu hình 2 thiết bị với CB tích hợp Relay nhiệt

Standard Performance - for normal life



AC3 400 V			Breaker + Thermal Overload	Ampere Setting	Contactor
KW	HP	Amp			
0.37	0.5	0.98	GV2ME05	0.63 - 1	LC1K06
0.55	0.75	1.5	GV2ME06	1 - 1.6	LC1K06
0.75	1	1.9	GV2ME07	1.6 - 2.5	LC1K06
1.1	1.5	2.5	GV2ME08	2.5 - 4	LC1K06
1.5	2	3.4	GV2ME08	2.5 - 4	LC1K06
2.2	3	4.8	GV2ME10	4 - 6.3	LC1K06
3	4	6.3	GV2ME14	6 - 10	LC1K06
4	5.5	8.1	GV2ME14	6 - 10	LC1K09
5.5	7.5	11	GV2ME16	9 - 14	LC1K12
7.5	10	14.8	GV2ME20	13 - 18	LC1D18
9	12	18.1	GV2ME21	17 - 23	LC1D25
11	15	21	GV2ME22	20 - 25	LC1D25
15	20	28.5	GV2ME32	24 - 32	LC1D32
18.5	25	35	GV3P40	30 - 40	LC1D40A
22	30	42	GV3P50	30 - 40	LC1D50A
30	40	57	GV3P65	48 - 65	LC1D65A
37	50	69	GV7RE80	56 - 80	LC1D80
45	60	81	GV7RE100	56 - 80	LC1D95
55	75	100	GV7RE150	90 - 150	LC1D115
75	100	131	GV7RE150	90 - 150	LC1D150
90	125	160	GV7RE220	132 - 220	LC1F185
110	150	195	GV7RE220	132 - 220	LC1F225

3 Components - Cấu hình 3 thiết bị với CB tích hợp Relay tách rời

Standard Performance - for normal life

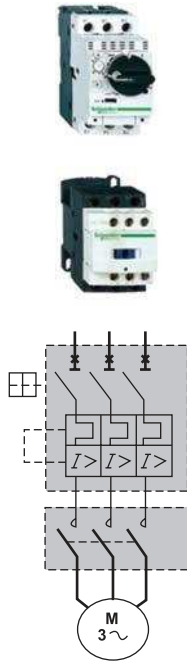


AC3 400 V			Breaker	Contactor	Thermal Overload Relay	Ampere Rating
KW	HP	Amp				
0.37	0.5	0.98	GV2LE05	LC1K06	LR2K0306	0.8 - 1.2
0.55	0.75	1.5	GV2LE06	LC1K06	LR2K0307	1.2 - 1.8
0.75	1	1.9	GV2LE07	LC1K06	LR2K0308	1.2 - 1.8
1.1	1.5	2.5	GV2LE07	LC1K06	LR2K0308	1.8 - 2.6
1.5	2	3.4	GV2LE08	LC1K06	LR2K0310	2.6 - 3.7
2.2	3	4.8	GV2LE10	LC1K06	LR2K0312	3.7 - 5.5
3	4	6.3	GV2LE14	LC1K09	LR2K0314	5.5 - 8
4	5.5	8.1	GV2LE14	LC1K09	LR2K0316	8 - 11.5
5.5	7.5	11	GV2LE16	LC1K12	LR2K0321	10 - 14
7.5	10	14.8	GV2LE20	LC1D18	LRD21	12 - 18
9	12	18.1	GV2LE22	LC1D25	LRD22	16 - 24
11	15	21	GV2LE22	LC1D25	LRD22	16 - 24
15	20	28.5	GV2LE32	LC1D32	LRD232	23 - 32
18.5	25	35	GV3L40	LC1D40A	LRD35	30 - 38
22	30	42	GV3L50	LC1D50A	LRD40	37 - 50
30	40	57	GV3L65	LC1D65A	LRD50	48 - 65
37	50	69	NS80HMA	LC1D80	LRD3363	63 - 80
45	60	81	NS100NMA	LC1D95	LRD3365	80 - 104
55	75	100	NS160NMA	LC1D115	LRD4367	95 - 120
75	100	131	NS160NMA	LC1D150	LRD4369	110 - 140
90	125	162	NS250NMA	LC1F185	LR9F5371	132 - 220
110	150	195	NS250NMA	LC1F225	LR9F5371	132 - 220
132	177	233	NS400HMA	LC1F265	LR9F7375	200 - 330
160	215	285	NS400HMA	LC1F330	LR9F7375	200 - 330
200	268	352	NS630HMA	LC1F400	LR9F7379	300 - 500
220	300	388	NS630HMA	LC1F400	LR9F7379	300 - 500
250	350	437	NS630HMA	LC1F500	LR9F7379	300 - 500



Unit price (excl. VAT) in USD

2 Components - Cấu hình 2 thiết bị với CB tích hợp Relay nhiệt



AC3 400 V			Breaker + Thermal Overload	Ampere Setting	Contactor
KW	HP	Amp			
0.37	0.5	0.98	GV2P05	0.63 - 1	LC1D09
0.55	0.75	1.5	GV2P06	1 - 1.6	LC1D09
0.75	1	1.9	GV2P07	1.6 - 2.5	LC1D09
1.1	1.5	2.5	GV2P08	2.5 - 4	LC1D09
1.5	2	3.4	GV2P08	2.5 - 4	LC1D09
2.2	3	4.8	GV2P10	4 - 6.3	LC1D09
3	4	6.3	GV2P14	6 - 10	LC1D09
4	5.5	8.1	GV2P14	6 - 10	LC1D09
5.5	7.5	11	GV2P16	9 - 14	LC1D25
7.5	10	14.8	GV2P20	13 - 18	LC1D25
9	12	18.1	GV2P21	17 - 23	LC1D25
11	15	21	GV2P22	20 - 25	LC1D25
15	20	28.5	GV2P32	24 - 32	LC1D32
18.5	25	35	GV3P40	25 - 40	LC1D50A
22	30	42	GV3P50	25 - 40	LC1D50A
30	40	57	GV3P65	40 - 63	LC1D80
37	50	69	GV7RS80	56 - 80	LC1D80
45	60	81	GV7RS100	60 - 100	LC1D115
55	75	100	GV7RS150	90 - 150	LC1D150
75	100	131	GV7RS150	90 - 150	LC1D150
90	125	162	GV7RS220	132 - 220	LC1F185
110	150	195	GV7RS220	132 - 220	LC1F225



3 Components - Cấu hình 3 thiết bị với Relay nhiệt tách rời

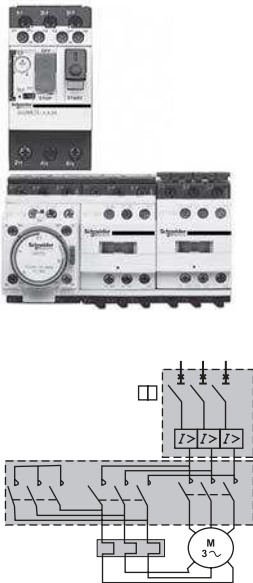


AC3 - 400 V			Breaker	Contactor	Thermal Overload Relay	Ampere Rating
KW	HP	Amp				
0.37	0.5	0.98	GV2LE05	LC1D09	LRD05	0.63 - 1
0.55	0.75	1.5	GV2LE06	LC1D09	LRD06	1 - 1.7
0.75	1	1.9	GV2LE07	LC1D09	LRD07	1.6 - 2.5
1.1	1.5	2.5	GV2LE08	LC1D09	LRD08	2.5 - 4
1.5	2	3.4	GV2LE08	LC1D09	LRD08	2.5 - 4
2.2	3	4.8	GV2LE10	LC1D09	LRD10	4 - 6
3	4	6.3	GV2LE14	LC1D09	LRD12	5.5 - 8
4	5.5	8.1	GV2LE14	LC1D09	LRD14	7 - 10
5.5	7.5	11	GV2LE16	LC1D25	LRD16	9 - 13
7.5	10	14.8	GV2L20	LC1D25	LRD21	12 - 18
9	12	18.1	GV2L22	LC1D25	LRD22	16 - 24
11	15	21	GV2L22	LC1D25	LRD22	16 - 24
15	20	28.5	GV3L32	LC1D40A	LRD332	23 - 32
18.5	25	35	GV3L40	LC1D50A	LRD340	30 - 10
22	30	42	GV3L50	LC1D50A	LRD350	37 - 50
30	40	57	GV3L65	LC1D65A	LRD365	48 - 65
37	50	69	NS80HMA	LC1D80	LRD3363	63 - 80
45	60	81	NS100HMA	LC1D115	LR9D5367	60 - 100
55	75	100	NS160NMA	LC1D115	LR9D5369	90 - 150
75	100	131	NS160NMA	LC1D150	LR9D5369	90 - 150
90	125	162	NS250NMA	LC1F185	LR9F5371	132 - 220
110	150	195	NS250NMA	LC1F225	LR9F5371	132 - 220
132	177	233	NS400NMA	LC1F265	LR9F7375	200 - 330
160	215	285	NS400HMA	LC1F330	LR9F7375	200 - 330
200	268	352	NS630HMA	LC1F400	LR9F7379	300 - 500
220	300	388	NS630HMA	LC1F500	LR9F7379	300 - 500
250	350	437	NS630HMA	LC1F500	LR9F7379	300 - 500



Unit price (excl. VAT) in USD

Cấu hình với CB tích hợp Relay nhiệt



AC 3 400 V			Breaker +	Star Contactor	Delta Contactor	Line Contactor
KW	HP	Amp	Thermal Overload	KM1 c/w Aux cont.	KM3	KM2 c/w Timer
1.5	2	3.4	GV2ME08	LC1K06	LC1K06	LC1K06 LA2KT2●
2.2	3	4.8	GV2ME10	LC1K06	LC1K06	LC1K06 LA2KT2●
3	4	6.3	GV2ME10	LC1K06	LC1K06	LC1K06 LA2KT2●
4	5.5	8.1	GV2ME14	LC1K06	LC1K06	LC1K06 LA2KT2●
5.5	7.5	11	GV2ME16	LC1K06	LC1K09	LC1K09 LA2KT2●
7.5	10	14.8	GV2ME20	LC1K06	LC1K09	LC1K09 LA2KT2●
9	12	18.1	GV2ME21	LC1K09	LC1K12	LC1K12 LA2KT2●
11	15	21	GV2ME22	LC1K09	LC1K12	LC1K12 LA2KT2●
15	20	28.5	GV2ME32	LC1D12	LC1D18	LC1D18 LADS2
18.5	25	35	GV3P40	LC1D12	LC1D25	LC1D25 LADS2
22	30	42	GV3P50	LC1D18	LC1D25	LC1D25 LADS2
30	40	57	GV3P65	LC1D25	LC1D38	LC1D38 LADS2
37	50	69	GV7RE80	LC1D40A	LC1D40A	LC1D40A LADS2
45	60	81	GV7RE100	LC1D40A	LC1D50A	LC1D50A LADS2
55	75	100	GV7RE100	LC1D40A	LC1D65A	LC1D65A LADS2
75	100	131	GV7RE150	LC1D80	LC1D80	LC1D80 LADS2
90	125	162	GV7RE220	LC1D80	LC1D95	LC1D95 LADS2
110	150	195	GV7RE220	LC1D115	LC1D115	LC1D115 LADS2
132	177	233	NS250NMA	LC1D115	LC1D150	LC1D150 LADS2

Note : - LA2KT2 ● is electronic timer. Replace ● with :
 E = 24 - 48 AC/DC Volts or U = 110 - 240 AC Volts
 - LADS2 is electromechanical timer. For electronic timer, see page time relay 3.3.17



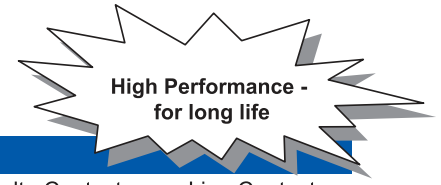
Unit price (excl. VAT) in USD

Cấu hình với Relay nhiệt tách rời

AC3 400 V			Breaker	Star Contactor	Delta Contactor	Line Contactor	Thermal
KW	HP	Amp		KM1 c/w Aux cont.	KM1 c/w Aux cont.	KM2 c/w Timer	Overload Relay
1.5	2	3.4	GV2LE08	LC1K06	LC1K06	LC1K06	LR2K0310
2.2	3	4.8	GV2LE10	LC1K06	LC1K06	LC1K06 LA2KT2●	LR2K0312
3	4	6.3	GV2LE10	LC1K06	LC1K06	LC1K06 LA2KT2●	LR2K0310
4	5.5	8.1	GV2LE14	LC1K06	LC1K06	LC1K06 LA2KT2●	LR2K0312
5.5	7.5	11	GV2LE14	LC1K06	LC1K09	LC1K09 LA2KT2●	LR2K0314
7.5	10	14.8	GV2LE16	LC1K06	LC1K09	LC1K09 LA2KT2●	LR2K0316
9	12	18.1	GV2LE20	LC1K06	LC1K12	LC1K12 LA2KT2●	LR2K0316
11	15	21	GV2LE22	LC1D09	LC1D18	LC1D18 LADS2	LRD21
15	20	28.5	GV2LE32	LC1D12	LC1D18	LC1D18 LADS2	LRD21
18.5	25	35	GV3L40	LC1D12	LC1D25	LC1D25 LADS2	LRD22
22	30	42	GV3L50	LC1D18	LC1D25	LC1D25 LADS2	LRD32
30	40	57	GV3L65	LC1D25	LC1D38	LC1D38 LADS2	LRD35
37	50	69	NS80HMA	LC1D40A	LC1D40A	LC1D40A LADS2	LRD365
45	60	81	NS100NMA	LC1D40A	LC1D50A	LC1D50A LADS2	LRD350
55	75	100	NS100NMA	LC1D40A	LC1D65A	LC1D65A LADS2	LRD365
75	100	131	NS160EMA	LC1D80	LC1D80	LC1D80 LADS2	LRD3363
90	125	162	NS250EMA	LC1D80	LC1D95	LC1D95 LADS2	LRD4365
110	150	195	NS250EMA	LC1D115	LC1D150	LC1D150 LADS2	LRD4369
132	177	233	NS400HMA	LC1D115	LC1D150	LC1D150 LADS2	LRD4369
160	215	285	NS400HMA	LC1F115	LC1F185	LC1F185 LADS2	LR9F5371
200	268	352	NS630HMA	LC1D150	LC1F225	LC1F225 LADS2	LR9F5371
220	300	388	NS630HMA	LC1D150	LC1F225	LC1F225 LADS2	LR9F7375
250	350	437	NS630HMA	LC1D150	LC1F265	LC1F265 LADS2	LR9F7375

Note : - LA2KT2 ● is electronic timer. Replace ● with :
 E = 24 - 48 AC/DC Volts or U = 110 - 240 AC Volts
 - LADS2 is electromechanical timer. For electronic timer, see page time relay 3.3.17



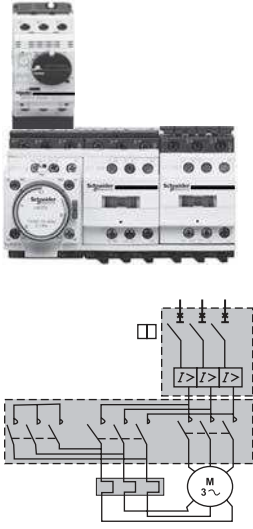


Unit price (excl. VAT) in USD

Cấu hình với CB tích hợp Relay nhiệt

AC3 400 V			Breaker +	Star Contactor	Delta Contactor	Line Contactor
KW	HP	Amp	Thermal Overload	KM1 c/w Aux cont.	KM3	KM2 c/w Timer
1.5	2	3.4	GV2P08	LC1D09	LC1D09	LC1D09
						LADS2
2.2	3	4.8	GV2P10	LC1D18	LC1D18	LC1D18
						LADS2
3	4	6.3	GV2P14	LC1D18	LC1D18	LC1D18
						LADS2
4	5.5	8.1	GV2P14	LC1D18	LC1D18	LC1D18
						LADS2
5.5	7.5	11	GV2P16	LC1D25	LC1D25	LC1D25
						LADS2
7.5	10	14.8	GV2P16	LC1D25	LC1D25	LC1D25
						LADS2
9	12	18.1	GV2P21	LC1D25	LC1D25	LC1D25
						LADS2
11	15	21	GV2P22	LC1D25	LC1D25	LC1D25
						LADS2
15	20	28.5	GV2P32	LC1D40A	LC1D40A	LC1D40A
						LADS2
18.5	25	35	GV3P40	LC1D40A	LC1D50A	LC1D50A
						LADS2
22	30	42	GV3P50	LC1D40A	LC1D50A	LC1D50A
						LADS2
30	40	57	GV3P65	LC1D40A	LC1D65A	LC1D65A
						LADS2
37	50	69	GV7RS80	LC1D80	LC1D80	LC1D80
						LADS2
45	60	81	GV7RS100	LC1D115	LC1D115	LC1D115
						LADS2
55	75	100	GV7RS100	LC1D115	LC1D115	LC1D115
						LADS2
75	100	131	GV7RS150	LC1D150	LC1D150	LC1D150
						LADS2
90	125	162	GV7RS220	LC1D185	LC1D185	LC1D185
						LADS2
110	150	195	GV7RS220	LC1F225	LC1F225	LC1F225
						LADS2

Note : - LADS2 is electromechanical timer. For electronic timer, see page time relay 3.3.17





Unit price (excl. VAT) in USD

Cấu hình với Relay nhiệt tách rời

AC3 400 V			Breaker	Star Contactor	Delta Contactor	Line Contactor	Thermal
KW	HP	Amp		KM1 c/w Aux cont.	KM1 c/w Aux cont.	KM2 c/w Timer	Overload Relay
1.5	2	3.4	GV2L08	LC1D18	LC1D18	LC1D18	LRD08
						LADS2	
2.2	3	4.8	GV2L10	LC1D18	LC1D18	LC1D18	LRD10
						LADS2	
3	4	6.3	GV2L10	LC1D18	LC1D18	LC1D18	LRD10
						LADS2	
4	5.5	8.1	GV2L14	LC1D18	LC1D18	LC1D18	LRD16
						LADS2	
5.5	7.5	11	GV2L16	LC1D25	LC1D25	LC1D25	LRD16
						LADS2	
7.5	10	14.8	GV2L20	LC1D25	LC1D25	LC1D25	LRD21
						LADS2	
9	12	18.1	GV2L22	LC1D25	LC1D25	LC1D25	LRD22
						LADS2	
11	15	21	GV2L22	LC1D25	LC1D25	LC1D25	LRD22
						LADS2	
15	20	28.5	GV3L32	LC1D40A	LC1D40A	LC1D40A	LRD332
						LADS2	
18.5	25	35	GV3L40	LC1D40A	LC1D50A	LC1D50A	LRD340
						LADS2	
22	30	42	GV3L50	LC1D40A	LC1D50A	LC1D50A	LRD350
						LADS2	
30	40	57	GV3L65	LC1D40A	LC1D65A	LC1D65A	LRD365
						LADS2	
37	50	69	NS80HMA	LC1D80	LC1D80	LC1D80	LRD3363
						LADS2	
45	60	81	NS100EMA	LC1D115	LC1D115	LC1D115	LR9D5367
						LADS2	
55	75	100	NS160EMA	LC1D115	LC1D115	LC1D115	LR9D5369
						LADS2	
75	100	131	NS160EMA	LC1D150	LC1D150	LC1D150	LR9D5369
						LADS2	
90	125	162	NS250EMA	LC1F185	LC1F185	LC1F185	LR9D5371
						LADS2	
110	150	195	NS250EMA	LC1F225	LC1F225	LC1F225	LR9F5371
						LADS2	
132	177	233	NS400HMA	LC1F265	LC1F265	LC1F265	LR9F7375
						LADS2	
160	215	285	NS400HMA	LC1F330	LC1F330	LC1F330	LR9F7375
						LADS2	
200	268	352	NS630HMA	LC1F400	LC1F400	LC1F400	LR9F7379
						LADS2	
220	300	388	NS630HMA	LC1F400	LC1F400	LC1F400	LR9F7379
						LADS2	
250	350	437	NS630HMA	LC1F500	LC1F500	LC1F500	LR9F7379
						LADS2	

Note : - LADS2 is electromechanical timer. For electronic timer, see page time relay 3.3.17.

