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File No: 043364 S 000 French

Class No: 3211 04 INDUSTRIAL CONTROL EQUIPMENT Motor Controllers - Magnetic

Master Contract: 164581

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- Motor starters, open types or with general purpose enclosures operating coil 600V ac or less 50/60Hz, with the following main contact max ratings:

Types Open	Amps	Encl.	Horsepower	
			600V ac 3-ph	240V ac 1-ph, 2-pole
LE1-D16	16	16	15	3
LE1-D25	25	25	20	3

Notes:

1. The devices may be provided with voltage suppressors 250V ac, 400V dc max, auxiliary contacts blocks Type LA1-.. as listed under LR 43363, time delay contacts Types LA2-D.. and LA3-D.. as listed under LR 46093 and with aux. contacts rated 600V ac HD, dc SD A600, (P600); the aux. contacts LA9-D09906



and LA9-D16906 are 600V ac HD, dc SD.

- 2. Contactors with 2 N.O. and 2 N.C. contacts are for switching of two phases in a three-phase circuit.
- 3. The basic type designations are completed with suffixes indicating contact arrangement.
 - AC contactors, LP1-D09, -D12, -D16, -D18, -D25, -D32, -D40, -D65, -D80, -REQ, open types, 3 or 4 poles, 60 hp max, 600V max, operating coil 600V dc or less, suffix REQ is for crimped lug terminal.
 - AC reversing contactors Types LP2-D09, -D12, -D16, -D18, -D25, -D32, -D40, -D50, -D65, -D80, open types, 3 or 4 poles, 600V max, operating coil 600V dc or less.

Note: The devices may be provided with aux. contacts 600V ac HD, dc SD, voltage suppressors, LA9-DO998D, 250V ac, 400V dc max, auxiliary contacts Types LA1-D10, with one pole, LA1-D11, LA1-D20 with 2-poles, LA1-D22, LA1-D04, LA1-D40, LA1-D13 and LA1-D1111 with 4 poles, contact rating code A600, Q600 or with time delay, Types LA2-D20 and LA3-D20 With 0.1 up to 3 sec time delay contacts, LA2-D22 and LA3-D22 with 0.1 up to 30 sec time delay and LA2-D24 and LA3-D24 with 10 up to 180 sec time delay contacts, 600V ac HD, dc SD; the aux. contacts LA9-D09906 and LA9-D16906 are 600V ac HD, dc SD.

- Accessories for contactors: Interchangeable thermal and magnetic trip block Types LB1-LC.. and -LD.. or interchangeable magnetic trip block Types LB6-LC.. and -LD.., rated from 0.25 up to 32A in 11 setting ranges for Type -LC.. and from 10 to 63A in setting ranges for Types -LD.., for use with Certified magnetic/manual operated motor starters Types LD.-LC and -LD.

Note: The basic type designations are completed with suffixes indicating magnetic/thermal setting and overload adjustment range.

- Auxiliary switch unit Type LA1-LC with auxiliary contacts for rating codes A600, P600 and/or signal contacts for 3A at 300V ac.
- Contactors, open type, 2, 3 or 4-poles, operation coil 600V max, 50/60Hz or dc, auxiliary contacts, Types LA1-F, rated A600, Q600, with the following rating:

General Purpose	Across the Line Motor				
	Starting 3-ph, 60Hz				
600V, 60Hz	3-ph, 60Hz	200-208V	240V	480V	600V
Model					
LC1-FF	175A	30 hp	40 hp	75 hp	100 hp
LC1-FG	200A	50 hp	60 hp	125 hp	150 hp
LC1-FH	285A	60 hp	75 hp	150 hp	200 hp
LC1-FJ	420A	100 hp	125 hp	250 hp	300 hp
LC1-FK	700A	150 hp	200 hp	400 hp	500 hp
LC1-FL	900A	250 hp	300 hp	600 hp	800 hp
LC1-FX	1500A	-	-	-	-



Notes:

1. The type designations are followed by suffixes indicating contact arrangement.
 2. When mounted in an enclosure the current rating of Types LC1-FK, LC1-FL and LC1-FX are reduced by 10 percent.
- Contactors, open or enclosed type, 3 or 4 pole, operating coil 600V max dc orac, 50/60Hz, auxiliary contacts, rating codes A600, P600, LC1-D323, LC1-D329 and LC2-D329 (reversing), rated:

General Purpose	Across the Line Motor Starting	
3 ph, 60 Hz	1-ph, 50/60Hz	3-ph, 50/60Hz
50A, 600V	120V, 240V	200-208V 240V 480V 600V
-	2 hp, 5 hp	10 hp 10hp 20 hp 30 hp

- AC Contactors, open type, 3- or 4-pole, operating coil 600V ac or less,50/60Hz, with the following max ratings: LC1-DG1, 24A, 10 hp, 600V ac, 3-ph, 2hp, 240V, 1-ph, 2-pole.

Note: Type LC1-DG1 may be provided with this submittor's voltage suppressors Type LA9-D09980 as listed under LR 43364, aux. contact blocks Types LA1-.. as listed under LR 43363, time delay contacts Types LA2-D.. and LA3-D.. as listed under LR 46093.

- AC Contactors, open type 2-, 3-, 4-, 5- or 6-pole, with the following ratings at 600V, 3-ph and 550V dc; Types CV 3-LB and CH 3-LB, 620 hp 800A ac; 388 hp,800A dc, CV 3-MB and CH 3-MB, 1060 hp, 1000A ac; CV 3-PB and CH 3-PB, 1580 hp,1500A ac; CV 3-RB and CH 3-RB, 2100 hp, 2000A ac.
- Contactors, open type, 2- or 3-pole, with the following max ratings at 600V ac 3-ph or dc; Types CV1-FB, 42 hp, 64A ac, 27 hp, 64A dc; CV1-GB, LC1-BG, 85 hp, 125A ac, 54 hp, 125A dc; CV1-HB, LC1-BH, 142 hp, 200A ac, 87 hp, 200A dc; CV1-JB, LC1-BJ, 230 hp, 320A ac, 142 hp, 320A dc; CV1-KB, LC1-BK, 360 hp, 500A ac, 224 hp, 320A ac, 142 hp, 320A dc; CV1-LB, LC1-BL, 620 hp, 800A ac, 388 hp, 800A dc.
- Contactors, open type, 2-, 3-, 4-, or 5-pole, with the following ratings at 600V, 3-ph, Types CV3-FB, 75 hp, 80A; CV3-GB, 150 hp, 160A, CV3-HP, 235 hp, 250A, CV3-JB, 300 hp, 320A, CV3-KB, 470 hp, 500A. Note: For all types CV3, CV1 and LC1-B, operating coil 600V or less, 50/60Hz, or dc. Auxiliary contacts Type ZC4-GM, rating codes A600, P600 or CA2-D ratingcodes A600, Q600. A time delay contact Type ZC2-GG or ZC2-GL, rating codes A600, Q600 (same polarity) may be provided on Type CV3.
- Contactors Types LC1-D09, -D12, -D16, -D17, -D18, -D25, -D32, -D40, -D50, -D63, -D65, -D80, -D95.
- Contactors Types LP4-D09, LP4-D12, LP4-D18, LP4-D25, LP4-REQ, 600V ac max, 20 hp max, 40A max continuous resistive load.
- Reversing contactors Types LP5-D09, LP5-D12, LP5-D18, LP5-D25, 600V ac max, 20 hp max, 40A max continuous resistive load.
- Enclosed motor starters LE1-D09, LE1-D12, 600V max, 1 or 3 ph, 10 hp max, enclosed Type 3R.
- Reversing contactors, open type, 3 or 4 poles, operating coil 600V ac max, 50/60Hz: LC2-D09, -D12, -D18, -D25, -D32, -D40, -D50, -D65, -D80, -D95, suitable for Group Installation when used in combination with Télémécanique Manual Motor Controller GV2.. or GV3.. and protected by fuses or circuit breaker.
- AC contactors Types LC1-F115, -F150, -F185, -F225, -F265, -F330, -F400, -F500, -F630, -F780, -F800,



- 2, 3 or 4 poles, and reversing contactors Types LC2 and LE2 followed by same suffixes as above, accessories, interlocks and power connections Type LA9F, operating coil 600V max, 50/60Hz or dc.
- AC mini-contactors and reversing contactors, Series K, Types LC.K, LP.K, rated 600V ac max, 3 ph, 10 hp max, 20A thermal current, control relays type CA.K, operating coil 600V max, 50/60Hz, or 250V dc max, auxiliary contact block, Type LA1.KN., contact A600, Q600, coil suppressor, Type LA4.K, 250V max. ac, dc; AC electric heating application for contactors Series K, 20A, 600V max, 250,000 operations, single phase and three phase, DC resistive application 14A, 24V max two sets of parallel connected contacts interrupting both sides of the line. Provided with clamp and screw terminals or spring force terminal.
 - Contactors, Types LC1-D-K, 600V ac max, 80 kVAR max for captive switching (100,000 cycles).
 - Class 8502 contactors, open types, operating coils 6 to 600V ac, 50/60Hz with the following max ratings: Type PC1, « hp, 120V ac, 3 ph; 1-1/2 hp, 200-240V ac, 3 ph; 12A, 600V ac, 3 ph; Type PCS1, 1/3 hp, 120V ac, 1 ph, 2-pole; 3/4 hp, 200-240V ac, 1 ph, 2-pole, 16A (gen), 16A (resistive heating), 600V ac; auxiliary contacts rated A600, 10A, 600V ac.
 - Electronic progressive motor starter, Type LH4N followed by suffixes, open type, line voltage 480V ac max, 3-ph, 50/60Hz, 15 hp max, 25.3A max continuous current, line voltage 600V ac from 30 to 75 hp, 85A max continuous current.
 - Magnetic Contactors, three or four poles, Cat. Nos. LC1 D115, LC1 D150, LC2 D115, LC2 D150 followed by digits, rated 600V ac max, 125 hp max, 160A max continuous current; Connecting means Cat. Nos. LA9 D11550 and D11560; Mechanical Interlock, Cat. Nos. LA9 D11502; Power Connections Kits for Horizontal mounting reversing Controller, Cat. Nos. LA9 D115 followed by suffixes.
 - Class 8502 contactors, open types, operating coils 12-600V ac, 50Hz, 60Hz, 50/60Hz with the following max ratings, Type PF1, 2 hp, 115V ac, 1 ph, two poles; 5 hp, 230V ac, 1 ph, two poles; 10 hp, 200-230V ac, 3 ph; 20 hp, 460V ac, 3 ph; 25 hp, 575V ac, 3 ph; 40A general use, 575V ac; Type PF3, 3 hp, 115V ac, 1 ph, two poles; 7.5 hp, 230V ac, 1 ph, two poles; 15 hp, 200-230V ac, 3 ph; 30 hp, 460V ac, 3 ph, 40 hp, 575V ac, 3 ph; 55A general use, 575V ac.
 - Class 8502 contactors, open types, operating coils 6 to 600V ac, 50/60Hz with the following max ratings: Type PC1, 1/2 hp, 120V ac, 3 ph; 1-1/2 hp, 200-240V ac, 3 ph; 12A, 600V ac, 3 ph; Type PCS1, 1/3 hp, 120V ac, 1 ph, 2-pole; 3/4 hp, 200-240V ac, 1 ph, 2-pole, 16A (gen), 16A (resistive heating), 600V ac; auxiliary contacts rated A600, 10A, 600V ac.
 - Class 8502 contactors, open types, Type PC3, Series A or B, operating coils 6-600V ac, 50Hz, 60Hz or 50/60Hz, Type PCD3, Series A or B, operating coils, 6-600V dc, with the following max ratings: 1/3 hp, 120V ac, 1 ph; 3/4 hp, 230V ac, 1 ph; 1/2 hp, 120V ac, 3 ph; 1-1/2 hp, 200-240V ac, 3 ph; 3 hp, 440-600V ac, 3 ph; 12A, 600V ac, 1 or 3 ph; auxiliary contacts rated A600.
 - Class 8502 contactors, open type, Type PC4, operating coils: 6-600V ac, 50Hz, 60Hz, 50/60Hz, with the following max ratings: 3 hp, 240V ac, 3 ph; 5 hp, 440-600V ac, 3 ph; 16A, 600V ac, 1 or 3 ph; auxiliary contacts rated A600.

General Note: The open type devices are Certified as components of other equipment where the suitability of the combination is determined by the Canadian Standards Association.

- AC Contactors and reversing contactors, rated 600V ac max, 3 ph, 25 hp max, 52A thermal current max, operating coil 600V max, 50/60Hz or 575V dc max, auxiliary contact A600-P600 - continuous current 10A. Cat. No. LC1D, LC1D.E.. and LC2D, LC2D.E.. (suffix E version with spring force terminal) size D09 to D38, followed by two digit numbers may be followed by one digit number, followed by one or two letters, may be followed by a digit number. Kits for reversing contactors Cat. No. LAD9R1V and LAD9R1. Suitable for group installation.