Certificate of Compliance

Certificate Number: LR 700066

Date Issued: October 17, 1997

Issued To: Allen-Bradley Company, Incorporated
1201 South Second Street
Milwaukee, WI 53204

The products listed below are eligible to bear the CSA Mark.

Issued By: **N. Graham**
Toronto, ON Canada

Signature N. Graham

PRODUCTS

Class No: 3211 05 INDUSTRIAL CONTROL EQUIPMENT - Motor Controllers - Manual

TO THE REQUIREMENTS OF C22.2 NO 14-M1987 AND ECN NOS 575 AND 575A:

- AC manual motor controllers, open type for 600V ac, 3-ph or 1-ph, Type 140-MN-... for 0.1 up to 25A in 13 setting ranges, at 600V ac, 3-ph, 5 hp, 200V, 7.5 hp, 230V, 15 hp, 460V, 20 hp, 575V ac, 3-ph, 2 hp, 115V and 3 hp, 230V ac, 1-ph, general use 25A, 600V ac, 3-ph, with or without internal auxiliary contact Type 140-A10, -A210, -A01, -A10L, code rated B600 and/or R300 and/or 5A 600V ac, or trip indication auxiliary contact block Type 140-T10 or -T01, code rated B600 and/or Q600 and/or 5A 600V ac.
- AC cam-type controllers, open type, for speed control and similar applications, Series 194L-..., rated as follows: Horsepower Code General Use 3-phase 1-phase, 2 pole Rated

Type	A	V ac	Hp	V ac	Hp	V ac	
194L-.12	12	600	5	600	3	600	A600
194L-.16	16	600	7.5	600	3	600	A600
194L-.20	20	600	10	600	5	600	-

194L-.25	25	600	15	600	7.5	600	-

Notes:

1. The motor starter may be used in combination with:
Current limiter Type 140-CL2 rated 55A, 600V ac max.
External auxiliary contact Type 140-A11 or -A20 or -A02, code rated A600 and/or Q600 and/or 10A 600V ac. Undervoltage trip Types 140-UV*, 149-CUV, for 600V ac max (*may be letters and/or numbers denoting operating coil voltages). Shunt trip Types 140-RT*, 140-CRT for 600V ac max (*may be letters and/or numbers denoting operating coil voltages). Supply block Type 140-LD rated 65A, 600V ac max. Busbar Type 140-L452 or -L454 or L455 or -L12 or -L11 or L1 rated 65A, 600V ac max. Mechanical accessories such as operating knobs, locks etc.
2. Short Circuit Ratings:
Max Circuit Capacity
RMS sym (kA)

	140-MN-...	**140-MN-..+**	**Voltage**
Type		140-CL2	(ac, 3-ph)
140-MN-0016	42	42	600
140-MN-0025	42	42	600
140-MN-0040	42	42	600
140-MN-0063	42	42	600
140-MN-0100	42	42	600
140-MN-0160	42	42	600
140-MN-0250	42	42	600
140-MN-0400	42	42	600
140-MN-0630	10 42	42 42	600 480
140-MN-1000	10 14	42 42	600 480
140-MN-1600	5 10	14 42	600 480
140-MN-2000	5 10	10 14	600 480
140-MN-2500	5 10	10 10	600 480

- AC manual motor controllers, open type for 600V ac, 3 ph or 1 ph, Type 140- followed by CMN, or CA or CT followed by 2500, or 4000, or 6300; or 9000; or 02; or -11; or -20; or -01-01; -10-10; 01-10; or -10-01, for 0.1 up to 25A in 13 setting ranges, at 600V ac, 3 ph, 5 hp, 200V, 7.5 hp, 230V, 15 hp, 460V, 20 hp, 575V ac, 3 ph, 2 hp, 115V and 3 hp, 230V ac, 1 ph, general use 25A, 600V ac, 3 ph, with or without internal auxiliary contacts, code rated B600 and/or R300 and/or 5A, 600V ac or trip indication auxiliary contact blocks, code rated B600 and/or Q600 and/or 5A, 600V ac. 3. Group Installation: Type 140-MN-..., with or without 140-CL2, as mentioned in the table above, is suitable for group installation when protected by fuses with a max rating of 1200A or when protected by the inverse time circuit breaker Westinghouse Type PCF3200 (max 1200A). 4. Types 194L-E.. are for panel mounting, Types 194L-A.. are for rear mounting. 5. Spare parts of the controller Type 194L-... may be shipped separately. 6. Controllers Type 194L-... may be provided with front elements Types 194L-HE..-.... which may be shipped separately. 7. Controllers Type 194L-E.. may be provided with front elements Types 194L-HC..-.... which may be shipped separately.
- Manual motor controllers, Cat Nos 194E/w/suffixes, open type, with suffixes, 3-ph or 1-ph, with max ratings as follows:

	Two Pole Horsepower Ratings				Three Phase Three Pole Horsepower Ratings			
V	110 120	200 240	440 480	550 600	110 120	200 240	440 480	550 600
Cat Nos 194E-25A, -E, -25 max hp FLA (A)	 0.5 9.8	 1.5 10	 3 8.5	 3 6.8	 2 13.6	 5 15.2	 10 14	 10 11
Cat Nos 194E-32A, -E, -32 max hp FLA (A)	 1 16	 2 12	 5 14	 5 11.2	 3 19.2	 7.5 22	 15 21	 15 17
Cat Nos 194E-40A, -E, -40 max hp FLA (A)`	 2 24	 3 17	 7.5 21	 7.5 16	 5 28	 10 28	 20 27	 20 22
Cat Nos 194E-63A, -E, -63 max hp FLA (A)	 3 34	 5 28	 10 26	 10 20	 7.5 40	 15 42	 25 34	 25 27

Cat Nos 194E-80A, -E, -80								
max hp	5	10	15	15	10	25	40	50
FLA (A)	56	50	34	27	56	68	52	52
Cat Nos 194E-100A, -E, -100								
max hp	7.5	15	25	25	15	30	50	50
FLA (A)	80	68	55	44	84	80	65	52

General Purpose Ratings			
194E/w/suffixes Types	V ac	Single Phase Two Pole	Three Phase Three or Four Pole
-25	600	25	25
-32	600	32	32
-40	600	40	40
-63	600	63	63
-80	600	80	80
-100	600	100	100

- Auxiliary contacts rated A600, Q600 pilot duty.

Note: Cat Nos 194E may be followed by suffixes -1763, -Q, -R, -NP, -PE, -TN, G3660, G3661, G3662, P11, PL11, P22, L22, C3, C4.

MARKINGS

The CSA Mark, file number 700066; model designation; and any "Cautions" or other information as specified in the Certification Report.

CERTIFICATION RECORD

The company named below has been authorized by CSA to represent the products listed in this record as "CSA Certified" and to affix the CSA Mark to these products according to the terms and conditions of the CSA Service Agreement and applicable CSA program requirements (including additional Markings).

Alternate File: 700066

Class No: 3211 05 INDUSTRIAL CONTROL EQUIPMENT - Motor Controllers - Manual

LISTEE

2655 Allen-Bradley Company, Incorporated
1201 South Second Street
Milwaukee, WI 53204
USA
Attention: Mr. Ken Thomas

October 17, 1997(Replaces:July 9, 1997)

TO THE REQUIREMENTS OF C22.2 NO 14-M1987 AND ECN NOS 575 AND 575A:

- AC manual motor controllers, open type for 600V ac, 3-ph or 1-ph, Type 140-MN-... for 0.1 up to 25A in 13 setting ranges, at 600V ac, 3-ph, 5 hp, 200V, 7.5 hp, 230V, 15 hp, 460V, 20 hp, 575V ac, 3-ph, 2 hp, 115V and 3 hp, 230V ac, 1-ph, general use 25A, 600V ac, 3-ph, with or without internal auxiliary contact Type 140-A10, -A210, -A01, -A10L, code rated B600 and/or R300 and/or 5A 600V ac, or trip indication auxiliary contact block Type 140-T10 or -T01, code rated B600 and/or Q600 and/or 5A 600V ac.
- AC cam-type controllers, open type, for speed control and similar applications, Series 194L-..., rated as follows: Horsepower Code General Use 3-phase 1-phase, 2 pole Rated

Type	A	V ac	Hp	V ac	Hp	V ac	
194L-.12	12	600	5	600	3	600	A600
194L-.16	16	600	7.5	600	3	600	A600
194L-.20	20	600	10	600	5	600	-
194L-.25	25	600	15	600	7.5	600	-

Notes:

1. The motor starter may be used in combination with:
Current limiter Type 140-CL2 rated 55A, 600V ac max.
External auxiliary contact Type 140-A11 or -A20 or -A02, code rated A600 and/or Q600 and/or 10A 600V ac. Undervoltage trip Types 140-UV*, 149-CUV, for 600V ac max (*may be letters and/or numbers denoting operating coil voltages). Shunt trip Types 140-RT*, 140-CRT for 600V ac max (*may be letters and/or numbers denoting operating coil voltages). Supply block Type 140-LD rated 65A, 600V ac max. Busbar Type 140-L452 or -L454 or L455 or -L12 or -L11 or L1 rated 65A, 600V ac max. Mechanical accessories such as operating knobs, locks etc.

2. Short Circuit Ratings:
Max Circuit Capacity
RMS sym (kA)

	140-MN-...	140-MN-..+	Voltage
Type		140-CL2	(ac, 3-ph)
140-MN-0016	42	42	600
140-MN-0025	42	42	600
140-MN-0040	42	42	600
140-MN-0063	42	42	600
140-MN-0100	42	42	600
140-MN-0160	42	42	600
140-MN-0250	42	42	600
140-MN-0400	42	42	600
140-MN-0630	10 42	42 42	600 480
140-MN-1000	10 14	42 42	600 480
140-MN-1600	5 10	14 42	600 480
140-MN-2000	5 10	10 14	600 480
140-MN-2500	5 10	10 10	600 480

- AC manual motor controllers, open type for 600V ac, 3 ph or 1 ph, Type 140- followed by CMN, or CA or CT followed by 2500, or 4000, or 6300; or 9000; or 02; or -11; or -20; or -01-01; -10-10; 01-10; or -10-01, for 0.1 up to 25A in 13 setting ranges, at 600V ac, 3 ph, 5 hp, 200V, 7.5 hp, 230V, 15 hp, 460V, 20 hp, 575V ac, 3 ph, 2 hp, 115V and 3 hp, 230V ac, 1 ph, general use 25A, 600V ac, 3 ph, with or without internal auxiliary contacts, code rated B600 and/or R300 and/or 5A, 600V ac or trip indication auxiliary contact blocks, code rated B600 and/or Q600 and/or 5A, 600V ac. 3. Group Installation: Type 140-MN-..., with or without 140-CL2, as mentioned in the table above, is suitable for group installation when protected by fuses with a max rating of 1200A or when protected by the inverse time circuit breaker Westinghouse Type PCF3200 (max 1200A). 4. Types 194L-E.. are for panel mounting, Types 194L-A.. are for rear mounting. 5. Spare parts of the controller Type 194L-... may be shipped separately. 6. Controllers Type 194L-... may be provided with front elements Types 194L-HE..-.... which may be shipped separately. 7. Controllers Type 194L-E.. may be provided with front elements Types 194L-HC..-.... which may be shipped separately.

- Manual motor controllers, Cat Nos 194E/w/suffixes, open type, with suffixes, 3-ph or 1-ph, with max ratings as follows:

	Two Pole Horsepower Ratings				Three Phase Three Pole Horsepower Ratings			
V	110 120	200 240	440 480	550 600	110 120	200 240	440 480	550 600
Cat Nos 194E-25A, -E, -25								
max hp	0.5	1.5	3	3	2	5	10	10
FLA (A)	9.8	10	8.5	6.8	13.6	15.2	14	11
Cat Nos 194E-32A, -E, -32								
max hp	1	2	5	5	3	7.5	15	15
FLA (A)	16	12	14	11.2	19.2	22	21	17
Cat Nos 194E-40A, -E, -40								
max hp	2	3	7.5	7.5	5	10	20	20
FLA (A)	24	17	21	16	28	28	27	22
Cat Nos 194E-63A, -E, -63								
max hp	3	5	10	10	7.5	15	25	25
FLA (A)	34	28	26	20	40	42	34	27
Cat Nos 194E-80A, -E, -80								
max hp	5	10	15	15	10	25	40	50
FLA (A)	56	50	34	27	56	68	52	52

Cat Nos 194E-100A, -E, -100								
max hp	7.5	15	25	25	15	30	50	50
FLA (A)	80	68	55	44	84	80	65	52

General Purpose Ratings			
194E/w/suffixes Types	V ac	Single Phase Two Pole	Three Phase Three or Four Pole
-25	600	25	25
-32	600	32	32
-40	600	40	40
-63	600	63	63
-80	600	80	80
-100	600	100	100

- Auxiliary contacts rated A600, Q600 pilot duty.

Note: Cat Nos 194E may be followed by suffixes -1763, -Q, -R, -NP, -PE, -TN, G3660, G3661, G3662, P11, PL11, P22, L22, C3, C4.

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