



# Certificate of Compliance

**Certificate:** 70003461

**Master Contract:** 229226

**Project:** 70148444

**Date Issued:** 2018-01-29

**Issued to:** Yaskawa America, Inc  
2121 Norman Dr S  
Waukegan, Illinois 60085  
USA

*The products listed below are eligible to bear the CSA Mark shown*



**Issued by:** *Khalil Ouldchama*  
Khalil Ouldchama, P. Eng.

CSA B44.1 / ASME A17.5

## **PRODUCTS**

CLASS - C241102 - ELEVATOR EQUIPMENT - Enclosed Elevator Electrical Equipment

CLASS - C321106 - INDUSTRIAL CONTROL EQUIPMENT-Motor Controllers - Miscellaneous

Power Conversion Equipment, Regenerative Converter, consisting of:

Model CIMR-, followed by R, followed by A through Z, followed by 2 or 4, followed by A through Z, followed by XXXX, where XXXX is 03P5 through 0300, followed by XXX, where XXX can be any alphanumerical character.

## **Electrical Ratings:**

Input: 200 to 240Vac, 10A to 306A, 50/60Hz; Output: 270-340Vdc, 14A to 413A, 3.5 to 105kW.

Input: 380 to 480Vac, 5A to 466A, 50/60Hz; Output: 510-680Vdc, 7A to 629A, 3.5 to 300kW.



**Certificate:** 70003461

**Master Contract:** 229226

**Project:** 70148444

**Date Issued:** 2018-01-29

As tabulated below:  
Electrical Ratings:

Model CIMR- RX*	AC Input Line**			DC Bus Output**		
	Voltage (Vac)	100% 1min (25%ED)/ 80% continuons (A)	Frequency (Hz)	Voltage (Vdc)	100% 1min (25%ED)/ 80% continuons (A)	Regen Power** (kW)
2x03P5	200 – 240	10/8	50/60	270-340	14/11	3.5
2x0005	200 – 240	15/12	50/60	270-340	20/16	5
2x0007	200 – 240	20/16	50/60	270-340	27/22	7
2x0010	200 – 240	30/24	50/60	270-340	41/32	10
2x0014	200 – 240	41/33	50/60	270-340	55/44	14
2x0017	200 – 240	50/40	50/60	270-340	68/54	17
2x0020	200 – 240	60/48	50/60	270-340	81/65	20
2x0028	200 – 240	83/66	50/60	270-340	112/90	28
2x0035	200 – 240	102/82	50/60	270-340	138/110	35
2x0053	200 – 240	153/122	50/60	270-340	207/165	53
2x0073	200 – 240	209/167	50/60	270-340	282/226	73
2x0105	200 – 240	306/245	50/60	270-340	413/330	105
4x03P5	380 - 480	5/4	50/60	510-680	7/6	3.5
4x0005	380 – 480	8/6	50/60	510-680	11/9	5
4x0007	380 - 480	11/9	50/60	510-680	15/12	7
4x0010	380 - 480	16/13	50/60	510-680	22/17	10
4x0014	380 - 480	22/18	50/60	510-680	30/24	14
4x0017	380 - 480	27/22	50/60	510-680	36/29	17
4x0020	380 - 480	32/26	50/60	510-680	43/35	20
4x0028	380 - 480	43/34	50/60	510-680	58/46	28
4x0035	380 - 480	54/43	50/60	510-680	73/58	35
4x0043	380 - 480	66/53	50/60	510-680	89/71	43
4x0053	380 - 480	81/65	50/60	510-680	109/88	53
4x0073	380 - 480	110/88	50/60	510-680	149/119	73
4x0105	380 - 480	161/129	50/60	510-680	217/174	105
4x0150	380 - 480	237/190	50/60	510-680	320/256	150
4x0210	380 - 480	326/261	50/60	510-680	440/352	210
4x0300	380 - 480	466/373	50/60	510-680	629/503	300

NOTES: (\*) where X is A through Z

(\*\*) Represents Maximum ratings (lower current/power may be marked on the product)

Short Circuit Current Rating: 100 kA, 480 Vac or SCCR of the connected VFD, whichever is less



**Certificate:** 70003461  
**Project:** 70148444

**Master Contract:** 229226  
**Date Issued:** 2018-01-29

**Environmental Ratings:**

Open Type Device, Surrounding Air Temperature: 50°C;  
 Enclosed Type 1 Device, Ambient Air Temperature: 40°C

**Relay Outputs:**

Terminal Board	Designator	Ratings
ETC74050y*	MA, MB, MC, M1, M2	250 V ac/30 V dc, 1 A
ETC74051y, ETC74052y	MA, MB, MC, M1, M2, M3, M4, M5, M6	250 V ac/30 V dc, 1 A

(\* ) where y is any alphanumeric character

**Open Collector Outputs – Powered by Class 2 Source –**

Terminal Board	Designator	Ratings
ETC74050y	P1, P2, PC	48 V dc, 50 mA maximum

All terminal boards Serial Communication Ports, Designated R+, S+, R-, S-, IG Powered by LVLC Source.

Digital Inputs/Outputs: Powered by LVLC source when using internal power supply. If using optional external power supply, shall be powered by Class 2 power source.

Terminal Board	Designator
ETC74050y	S1 – S8, SC
ETC74051y, ETC74052y	S1 – S8, SN, SC, SP

Analog Inputs/Outputs: Powered by LVLC source when using internal power supply. If using optional external power supply, shall be powered by Class 2 power source.

Terminal Board	Designator
ETC74050y, ETC74051y, ETC74052y	+V, -V, A1, A2, A3, AC, AM, FM

**Notes:**

- These devices are certified for use in other certified equipment where the suitability of the combination is determined by CSA International.
- The R1000 series Regenerative Converter are intended to be used with any of submitter’s AC general purpose motor drive system that uses a fixed bus system in industrial applications, such as the bus system used on AC VFD.

**APPLICABLE REQUIREMENTS**

- |                                |   |  |
|--------------------------------|---|--|
| CAN/CSA-C22.2 No. 0-10         | - | General Requirements - Canadian Electrical Code, Part II |
| CSA-C22.2 No. 14-13            | - | Industrial Control Equipment                             |
| CSA-B44.1-14 / ASME A17.5-2014 | - | Elevator and Escalator Electrical Equipment              |
| CSA-C22.2 No. 274-13           | - | Adjustable Speed Drives                                  |



## *Supplement to Certificate of Compliance*

**Certificate:** 70003461

**Master Contract:** 229226

*The products listed, including the latest revision described below,  
are eligible to be marked in accordance with the referenced Certificate.*

### **Product Certification History**

---

<b>Project</b>	<b>Date</b>	<b>Description</b>
70148444	2018-01-29	Update report 70003461 to C22.2 No 274 -13, Update as per Ind. Cont. Notices 35 & 47.
70014799	2014-11-27	General administrative report update to Report 229226-70003461 as per Report draft submitted by customer on 2014-10-28 (Pages required corrections: 1, 2, 4, 6, 8, 11, 13, 14, 19, 21, 31 and 35).
70003461	2014-03-21	Initial Certification of Power Conversion Equipment, Regenerative Converter, R1000 Series, by acceptance of UL Test Data, to the requirements of standard CAN/CSA-C22.2 No.14- 10 and CSA-B44.1-10. Class 241102 and 3211 07.