



Certificate of Compliance

Certificate: 1358399

Master Contract: 165900

Project: 80051431

Date Issued: 2020-07-30

Issued To: Kraus & Naimer Produktion GmbH
Schumannngasse 31 - 39
Vienna, Vienna, W, 1181
Austria

Attention: Helmut Bosina

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

Issued by: *Azad Hacika*
Azad Hacika



PRODUCTS

CLASS - C321105 - INDUSTRIAL CONTROL EQUIPMENT Motor Controllers - Manual

AC Cam Type Controllers, open type, single and 3-phase.

Series CH, Types:

CH6,		
CH10,	CH10B,	CH10R,
CH16,	CH16B,	CH16R.

Series CHR, Types:

CHR6,



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CHR10, CHR10B, CHR10R,
 CHR16, CHR16B, CHR16R.

The controllers are rated as follows:

Type	Amps* at 277 Vac	Amps** at 600 Vac	Pilot Duty	HP-ratings at... Vac								
				Single phase, 2-pole					3 phase, 3 or 4-pole			
				110	220	277	440	550	110	220	440	550
				120	240		480	600	120	240	480	600
CH6	20	20	A600	0.5	1	2	2	2	1.5	3	5	5
CH10	20	20	A600	0.5	1	2	2	2	1.5	3	5	5
CH10B	20	20	A600	0.5	1	2	2	2	1.5	3	5	5
CH10R	20	20	A600	0.5	1	2	2	2	1.5	3	5	5
CH16	25	25	A600	1	2	3	5	5	2	5	10	10
CH16B	25	25	A600	1	2	3	5	5	2	5	10	10
CH16R	25	25	A600	1	2	3	5	5	2	5	10	10
CHR6	20	20	A600	0.5	1	2	2	2	1.5	3	5	5
CHR10	20	20	A600	0.5	1	2	2	2	1.5	3	5	5
CHR10B	20	20	A600	0.5	1	2	2	2	1.5	3	5	5
CHR10R	20	20	A600	0.5	1	2	2	2	1.5	3	5	5
CHR16	25	25	A600	1	2	3	5	5	2	5	10	10
CHR16B	25	25	A600	1	2	3	5	5	2	5	10	10
CHR16R	25	25	A600	1	2	3	5	5	2	5	10	10

- * Amp rating at 277 V is 1 phase 1 pole, 3 phase 3 or 4 pole
- ** Amp rating at 600 V is 1 phase 2 pole, 3 phase 3 or 4 pole

Short Circuit Withstand:

5000 A symmetrical 600 V ac max when protected Class RK1 fuses.



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CSA PRODUCT CLASS

4652 04 - SWITCHES – Miscellaneous

AC Cam Type Controllers, open type, poly phase.

Series CH, Types:

CH11, CH11, CH11R,
 CH12, CH12B, CH12R.

Series CHR, Types:

CHR11, CHR11, CHR11R,
 CHR12, CHR12B, CHR12R.

The switches are rated as follows:

Type	Amp Rating at V ac								
	1	6	12	24	48	60	110	240	300
CH11	6	6	6	5	5	3.5	3	2	1.3
CH11B	6	6	6	5	5	3.5	3	2	1.3
CH11R	6	6	6	5	5	3.5	3	2	1.3
CH12	-	6	6	5	4	3.5	3	1.8	1.3
CH12B	-	6	6	5	4	3.5	3	1.8	1.3
CH12R	-	6	6	5	4	3.5	3	1.8	1.3
CHR11	6	6	6	5	5	3.5	3	2	1.3
CHR11B	6	6	6	5	5	3.5	3	2	1.3
CHR11R	6	6	6	5	5	3.5	3	2	1.3
CHR12	-	6	6	5	4	3.5	3	1.8	1.3
CHR12B	-	6	6	5	4	3.5	3	1.8	1.3
CHR12R	-	6	6	5	4	3.5	3	1.8	1.3

Type	Amp. Rating at V dc								
	1	6	12	24	48	60	110	240	300
CH11	4	4	3	2.2	1.2	1	0.6	0.3	0.2
CH11B	4	4	3	2.2	1.2	1	0.6	0.3	0.2
CH11R	4	4	3	2.2	1.2	1	0.6	0.3	0.2
CH12	-	4	3	2.2	1.2	1	0.6	0.3	0.2
CH12B	-	4	3	2.2	1.2	1	0.6	0.3	0.2
CH12R	-	4	3	2.2	1.2	1	0.6	0.3	0.2
CHR11	4	4	3	2.2	1.2	1	0.6	0.3	0.2
CHR11B	4	4	3	2.2	1.2	1	0.6	0.3	0.2



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CHR11R	4	4	3	2.2	1.2	1	0.6	0.3	0.2
CHR12	-	4	3	2.2	1.2	1	0.6	0.3	0.2
CHR12B	-	4	3	2.2	1.2	1	0.6	0.3	0.2
CHR12R	-	4	3	2.2	1.2	1	0.6	0.3	0.2

Notes:

1. The type designations are combined with numbers and letters indicating the switching combination, type of mounting, operating mechanism and auxiliary devices provided.
2. The controllers and switches are for back-of-panel mounting or for base plate mounting. The operating mechanism may be provided with special purpose equipment as required for key operating, locking etc.
3. Switches are not suitable for use as disconnect or isolating switches in accordance with the Canadian Electrical Code, Part 1, rule 13-402 and 27-602.
4. All components were Certified for use in equipment where the suitability of the combination is to be determined by CSA group or another NRTL.

APPLICABLE REQUIREMENTS

CSA C22.2 No. 14-18 - Industrial Control Equipment



Supplement to Certificate of Compliance

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

Product Certification History

Project	Date	Description
80051431	2020-07-30	Update to Report 1358399 to correct SCCR marking requirement
80000736	2019-07-30	Update of Report 1358399 to cover change of manufacturer and type designation for Frianyl; addition of "Badamid" Type UL A703 GF20 FR HF, manufactured by Bada AG (E189230) and update material from Nylon to Polyamide;
70002245	2013-11-11	Update to cover change of the ratings for the cam controllers series CH, CHR and minor changes in the descriptive report. According C22.2 No. 14-13.
2089609	2008-10-01	Update to report 1358399 to cover alternate plastics
1358399	2003-01-17	Original Certification