



# Certificate of Compliance

**Certificate:** 1358386 **Master Contract:** 165900  
**Project:** 80177488 **Date Issued:** 09/27/2023  
**Issued to:** **Kraus & Naimer Produktion GmbH**  
 Schumanngasse 39  
 Wien, Vienna 1180  
 Austria  
**Attention:** Dipl. Ing. Helmut Bosina

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



**Issued by:** Azad Hacika  
Azad Hacika

## PRODUCTS

C321105 INDUSTRIAL CONTROL EQUIPMENT - Motor Controllers - Manual

AC Cam Type Controllers, open type, suitable for use as motor disconnecting means, single and 3 phase:

### Series KA

Models
KA40, KA40B, KAR40, BKA41, KA41B, KA63, KA63B, KAR63, KAR63B

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	415	440	550	110	220	277	415	440	550			



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				120	240			480	600	120	240			480	600
KA40	40	40	A600	2	5	7.5	7.5	10	10	5	15	-	15	25	30
KA40B	40	40	A600	2	5	7.5	7.5	10	10	5	15	-	15	25	30
KAR40	40	40	A600	2	5	7.5	7.5	10	10	5	15	-	15	25	30
KAR40B	40	40	A600	2	5	7.5	7.5	10	10	5	15	-	15	25	30
KA41	40	40	A600	2	5	7.5	7.5	10	10	5	15	-	15	25	30
KA41B	40	40	A600	2	5	7.5	7.5	10	10	5	15	-	15	25	30
KA63	60	60	A600	3	7.5	7.5	10	15	15	5	15	-	20	30	40
KA63B	60	60	A600	3	7.5	7.5	10	15	15	5	15	-	20	30	40
KAR63	60	60	A600	3	7.5	7.5	10	15	15	5	15	-	20	30	40
KAR63B	60	60	A600	3	7.5	7.5	10	15	15	5	15	-	20	30	40

\* 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

**Series KG**

Models



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KG10, KG10A, KG10B, KG11, KG11A, KG11B, KG20, KG20A, KG20B, KG32, KG32A, KG32B, KG41, KG41B, KG64, KG64B, KG80, KG80C, KG100, KG100C, KG125, KG126, KG127, KG160, KG161, KG162, KG210, KG211, KG212, KG250, KG251, KG252, KG315, KG316, KG317

Type	Amps* at 277Vac	Amps** at 600 Vac	Pilot Duty	HP-ratings at... Vac											
				Single phase, 2-pole						3 phase, 3 or 4-pole					
				110	220	277	415	440	550	110	220	277	415	440	550
				120	240			480	600	120	240			480	600
KG10	20	-	A300	0.5	1	1	-	-	-	1	2	-	-	-	-
KG10A	20	-	A300	0.5	1	1	-	-	-	1	2	-	-	-	-
KG10B	20	-	A300	0.5	1	1	-	-	-	1	2	-	-	-	-
KG11	20	20	A600	0.5	1	1	2	2	2	1	2	-	4.5	5	5
KG11A	20	20	A600	0.5	1	1	2	2	2	1	2	-	4.5	5	5
KG11B	20	20	A600	0.5	1	1	2	2	2	1	2	-	4.5	5	5
KG20	25	25	A600	1	3	3	5	5	5	2	7.5	-	10	15	20
KG20A	25	25	A600	1	3	3	5	5	5	2	7.5	-	10	15	20



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KG20B	25	25	A600	1	3	3	5	5	5	2	7.5	-	10	15	20
KG32	30	30	A600	1,5	5	5	5	7.5	7.5	3	10	-	10	20	25
KG32A	30	30	A600	1,5	5	5	5	7.5	7.5	3	10	-	10	20	25
KG32B	30	30	A600	1,5	5	5	5	7.5	7.5	3	10	-	10	20	25
KG41	40	40	-	2	5	7.5	7.5	10	10	5	15	-	15	25	30
KG41B	40	40	-	2	5	7.5	7.5	10	10	5	15	-	15	25	30
KG64	60	60	-	3	7.5	7.5	10	15	15	5	15	-	20	30	40
KG64B	60	60	-	3	7.5	7.5	10	15	15	5	15	-	20	30	40
KG80	80	80	-	5	10	15	20	20	30	10	25	-	30	50	50
KG80C	80	80	-	5	10	15	20	20	30	10	25	-	30	50	50
KG100	100	100	-	5	15	15	25	30	30	10	25	-	40	50	50
KG100C	100	100	-	5	15	15	25	30	30	10	25	-	40	50	50
KG125	150	150	-	7.5	20	20	-	35	35	15	30	-	-	60	60
KG126	150	150	-	7.5	20	20	-	35	35	15	30	-	-	60	60



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KG127	150	150	-	7.5	20	20	-	35	35	15	30	-	-	60	60
KG160	200	200	-	10	25	25	-	40	40	20	40	-	-	75	75
KG161	200	200	-	10	25	25	-	40	40	20	40	-	-	75	75
KG162	200	200	-	10	25	25	-	40	40	20	40	-	-	75	75
KG210	200	200	-	15	30	30	-	45	50	25	50	-	-	75	75
KG211	200	200	-	15	30	30	-	45	50	25	50	-	-	75	75
KG212	200	200	-	15	30	30	-	45	50	25	50	-	-	75	75
KG250	250	250	-	15	30	30	-	45	50	30	60	-	-	75	75
KG251	250	250	-	15	30	30	-	45	50	30	60	-	-	75	75
KG252	250	250	-	15	30	30	-	45	50	30	60	-	-	75	75
KG315	300	300	-	20	35	35	-	50	60	40	75	-	-	100	100
KG316	300	300	-	20	35	35	-	50	60	40	75	-	-	100	100
KG317	300	300	-	20	35	35	-	50	60	40	75	-	-	100	100

\* 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



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Short Circuit Withstand:

- Types KG10 (A,B) and KG11 (A,B): 5000 A symmetrical at max rated voltage, when protected by Class J fuses.
- Types KG20 (A,B), KG32 (A,B), KG41 (B), KG64 (B), KG80 (C), KG100 (C), KG125, KG126, KG127, KG160, KG161, KG162, KG210, KG211, KG212, KG250, KG251, KG252, KG315, KG316, KG317: 10.000 A symmetrical at 600 Vac max, when protected by RK1 fuses, and GE circuit breakers.
- Types KA(R)40 (B): 5000 A symmetrical, 600 Vac maximum when protected by Class RK5 fuses with a maximum rating of 60 A; 10000 A symmetrical, 600 Vac maximum when protected by Class J fuses with a maximum rating of 90 A; 65000 A symmetrical, 600 Vac maximum when protected by Class J fuses with a maximum rating of 60 A.
- Types KA41 (B): 5000 A symmetrical, 600 Vac maximum when protected by Class RK5 fuses with a maximum rating of 60 A.
- Types KA(R)63 (B): 5000 A symmetrical, 600 Vac maximum when protected by Class RK5 fuses with a maximum rating of 60 A; 10000 A symmetrical, 600 Vac maximum when protected by Class J fuses with a maximum rating of 125 A; 65000 A symmetrical, 600 Vac maximum when protected by Class J fuses with a maximum rating of 70 A.

Notes:

1. The type designations are completed with the numbers and letters indicating the switching combination, type of mounting, operating mechanism and auxiliary devices provided. Devices suitable for motor disconnecting means have additional letter T in the type designation. Additional letter K is used for devices suitable as motor controller only.
2. The controllers 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. Types KG10 and KG11, suitable as motor disconnecting means, must be provided in the final application by a separate front section suitable for locking in the off-position by pad-locks.
4. Types KG10, KG10 (A,B) may be provided with auxiliary contact set(s) rated 20 A 600 V 1 phase 1 pole, duty rated A600.
5. Types KG11, KG11 (A,B) may be provided with auxiliary contact set(s) rated 20 A 300 V 1 phase 1 pole, duty rated A300.
6. Types KG125 and KG160 are rated 125 A respectively 200 A (600 V) 1 phase 2 pole, 3 phase 3 or 4 pole, when provided with double-throw function.
7. The controllers may be provided with Certified auxiliary units as described in this Report and in Report 1358401.
8. The controllers are Certified for use in equipment where the suitability of the combination is to be determined by the CSA.
9. The controllers may be factory assembled with the auxiliary as indicated below:

Cam-Operated Auxiliary Contacts:

- For Series KG20 and KG32  
Rated 600 V ac, general purpose 10 A, 2 phase, 1 pole, pilot duty A600.
- For Series KA40 up to KA63  
Basic units with internal type designation K1 M510C/.A and K1 M510C/.B, rated 600 Vac, general purpose 10 A, 2 phases - 1 pole, pilot duty A600.
- For Series KG41 up to KG100  
Basic units for controllers with provision for front and base-plate mounting rated 600 V ac, general purpose 10 A, 2 phase – 1 pole, pilot duty A600.  
Alternate construction with internal type designation K3B M510 HA and K3B M510 HB, rated 600 V ac, general purpose 10 A, 2 phase, 1 pole, pilot duty A600.  
Alternate construction with internal type designation K3B M510 HC and K3B M510 HD: See tabulation below.

Rack-Operated Auxiliary Contacts for Series KG125 up to KG317:

With internal type designation K3B M510 HA and K3B M510 HB, rated 600 V ac, general purpose 10 A, 2 phase, 1 pole, pilot duty A600.  
With internal type designation K3B M510 HC and K3B M510 HD: See tabulation below:



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Internal Type Designation	Max Voltage ac or dc	Ampere Rating	General Purpose Ampere Ratings at Operational Voltages							
			1	6	12	24	48	110	220	300
K3B M510 HC	300 V ac	Amp ac	-	6	6	5	5	3	2	1.3
	300 V dc	Amp dc	-	4	3	2.2	1.2	0.6	0.3	0.2
K3B M510 HD	300 V ac	Amp ac	6	6	6	5	5	3	2	1.3
	300 V dc	Amp dc	4	4	3	2.2	1.2	0.6	0.3	0.2

Dual Drive Units

Fourth Pole, Lateral Neutral and Lateral Ground Terminal Units for Series KG125 up to KG317:

Rated 600 V ac, 200 A (Series KG125 up to KG162), 600 V ac, 300 A (KG210 up to KG317).

Jumpers for Series KG20 up to KG160: rated as follows:

For Series KG20 and KG32	-	600 V ac, 30 A
For Series KG41 and KG64	-	600 V ac, 60 A
For Series KA40, KA41 and KA63	-	600 V ac, 60 A
For Series KG80 and KG100	-	600 V ac, 100 A
For Series KG125	-	600 V ac, 125 A
For Series KG160	-	600 V ac, 160 A



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**APPLICABLE REQUIREMENTS**

CSA C22.2 NO. 14-18 - Thirteenth Edition; Update No. 1: June 2022 - Industrial control equipment - Thirteenth Edition; Update No. 1: June 2022





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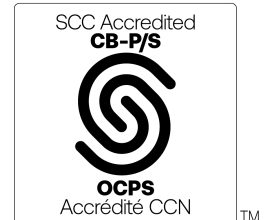
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**Notes:**

Products certified under Class C321105 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). [www.scc.ca](http://www.scc.ca)





## *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**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
80177488	September 27, 2023	Update to Report 1358386 to add alternate housing materials, Type Durethan BKV20FN01+ and Technyl Star S 60X1 V30.
80177487	August 21, 2023	Update to Report 1358386 to address (FC#165892) FIR dated June 29, 2023, alternate components.
80089612	November 12, 2021	Update to Report 1358386 to add new types KA(R)40 to KA(R)63 based on Test Data to the requirement of CSA C22.2 No. 14-18.
80034046	February 25, 2020	Update to Report 1358386 corrections of wrong dimensions of ratchet cover dimensions in Section G.
80000740	July 30, 2019	Update to Report 1358386 to cover addition of "Badamid" Type UL A703 GF20 FR HF, manufactured by Bada AG (E189230); optional construction of Ratchet Cover in Part I and Part T; update material from Nylon to Polyamide; increase the rating of KG160, KG161 and KG162 from 60hp to 75hp based on existing UL test data.
70210465	February 22, 2019	Update to Report 1358386 to cover new Standard Editions, resolving the FIR: CSG#165892181205 and update the name of polymeric suppliers.
70041090	October 14, 2018	Update to Report 1358386 regarding some editorial changes and one correction in the report.
70153509	March 27, 2018	Update to Report 1358386 to cover new ratings for the motor series KG (KG20 to KG80).
70002241	September 13, 2013	Update to Report 1358386 to cover changes to the auxiliary switch K3BM510HB and minor descriptive changes.
2349323	September 28, 2010	Update to Report 1358386 to cover addition of alternate plastic and minor descriptive changes.



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2089600	October 01, 2008	Update to Report 1358386 to cover alternate plastics.
1358386	January 17, 2003	Original Certification of AC cam type controllers, Series KG.