



# Certificate of Compliance

**Certificate:** 70021797

**Master Contract:** 153247

**Project:** 80199371

**Date Issued:** 2024-03-12

**Issued To:** Rotork Controls Inc.  
675 Mile Crossing Blvd  
Rochester, New York, 14624  
United States

**Attention:** Anastasiya Fixel

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only*



**Issued by:**

Oong Lee

## **PRODUCTS**

**CLASS 2252 06** - PROCESS CONTROL EQUIPMENT Process Control Equipment

**CLASS 2252 86** - PROCESS CONTROL EQUIPMENT Certified to US Standards

Model(s)

PART A – CK series and CKc series isolating duty valve actuators

CK series and CKc series isolating duty valve actuators, 3 phase, rated 220, 240, 380, 400, 415, 440, 500 V at 50 Hz, 3 phase, rated 220, 240, 380, 440, 460, 480, 600 V at 60 Hz, 3 phase, with ten actuator speeds for each model  
CK30, CK60, CK120, CK250, CK500, CKc30, CKc60, CKc120, CKc250, CKc500 of 9, 12, 18, 24, 36, 48, 72, 96, 144, 192 RPM (at 50 Hz), 11, 14, 21, 29, 43, 57, 86, 115, 173, 230 RPM (at 60 Hz), with a duty cycle of S2-30 min, S4-25% or S4-50% for 3 phase models, maximum external load contacts 150 Vac, 5 A inductive load (cos > 0.8), 0.5 A resistive load; operating ambient temperature range -40 °C to +70 °C.



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CK series and CKc series isolating duty valve actuators, 1 phase,  
 rated 110, 115, 220, 230, 240 V at 50 Hz, 1 phase,  
 rated 110, 115, 220, 230, 240 V at 60 Hz, 1 phase,  
 with 8 actuator speeds for each model CK30, CK60, CKc30, CKc60 of  
 18, 24, 36, 48, 72, 96, 144, 192 RPM (at 50 Hz),  
 21, 29, 43, 57, 86, 115, 173, 230 RPM (at 60 Hz),

rated 110, 115, 220, 230, 240 V at 50 Hz, 1 phase,  
 rated 110, 115, 220, 230, 240 V at 60 Hz, 1 phase,  
 with 8 actuator speeds for each model CK120, CKc120 of  
 18, 24, 36, 48, 72, 96, 144, 192 RPM (at 50 Hz),  
 21, 29, 43, 57, 86, 115, 173, 230 RPM (at 60 Hz),

rated 220, 230, 240 V at 50 Hz, 1 phase,  
 rated 220, 230, 240 V at 60 Hz, 1 phase,  
 with 2 actuator speeds for each model CK120, CKc120 of  
 144, 192 RPM (at 50 Hz),  
 173, 230 RPM (at 60 Hz),

rated 110, 115, 220, 230, 240 V at 50 Hz, 1 phase,  
 rated 110, 115, 220, 230, 240 V at 60 Hz, 1 phase,  
 with 4 actuator speeds for each model CK250, CKc250, of  
 18, 24, 36, 48 RPM,

with a duty cycle of S2-30 min, S4-25% or S4-50% for 1 phase models,  
 maximum external load contacts 150 Vac, 5 A inductive load (cos > 0.8), 0.5 A resistive load;  
 operating ambient temperature range -40 °C to +70 °C.

The actuator range consisting of the following model types:

**Overview technical data – Isolating CK Standard / CKc – 3 phase**

Models	Rated output torque (max.) (lbs.ft.)	Rated output torque (operational) (lbs.ft.)	RPM (at 50 Hz)	RPM (at 60 Hz)**
CK30 and CKc30	22	7	9, 12, 18, 24, 36, 48, 72, 96, 144	11, 14, 21, 29, 43, 57, 86, 115, 173
	18		192	230
CK60 and CKc60	44	15	9, 12, 18, 24, 36, 48, 72, 96, 144	11, 14, 21, 29, 43, 57, 86, 115, 173
	37		192	230



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<b>CK120 and CKc120</b>	89	30	9, 12, 18, 24, 36, 48, 72, 96, 144	11, 14, 21, 29, 43, 57, 86, 115, 173
	74		192	230
<b>CK250 and CKc250</b>	184	61	9, 12, 18, 24, 36, 48, 72, 96, 144	11, 14, 21, 29, 43, 57, 86, 115, 173
	148		192	230
<b>CK500 and CKc500</b>	369	123	9, 12, 18, 24, 36, 48, 72, 96, 144	11, 14, 21, 29, 43, 57, 86, 115, 173
	295		192	230

**Overview technical data – Isolating CK Standard / CKc – 1 phase**

<b>Models</b>	<b>Rated output torque (max.) (lbs.ft.)</b>	<b>Rated output torque (operational) (lbs.ft.)</b>	<b>RPM (at 50 Hz)</b>	<b>RPM (at 60 Hz)**</b>
<b>CK30 and CKc30</b>	22	7	18, 24, 36, 48, 72, 96, 144	21, 29, 43, 57, 86, 115, 173
	18		192	230
<b>CK60 and CKc60</b>	44	15	18, 24, 36, 48, 72, 96, 144	21, 29, 43, 57, 86, 115, 173
	37		192	230
<b>CK120 and CKc120</b>	89	30	18, 24, 36, 48, 72, 96, 144*	21, 29, 43, 57, 86, 115, 173*
	74		192*	230*
<b>CK250 and CKc250</b>	184	61	18, 24, 36, 48	21, 29, 43, 57

Note: \* 110 V and 115 V is not available for this actuator size and speed combination.

**Notes:**

- (1) All models class I, pollution degree 2, overvoltage category II, IP68 protected.
- (2) Mode of operation: Short-term operation.
- (3) Environmental Conditions: 2000 m max.

\*\*60 Hz actuator operating speed will be 120% of 50Hz



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Model(s)
PART B – CKr series and CKrc series regulating/modulating duty valve actuators

CKr series and CKrc series regulating/modulating duty valve actuators, rated 220, 240, 380, 400, 415, 440, 500 V at 50 Hz, 3 phase, rated 220, 240, 380, 440, 460, 480, 600 V at 60 Hz, 3 phase, with eight actuator speeds for each model  
 CKr30, CKr60, CKr120, CKr250, CKr500, CKrc30, CKrc60, CKrc120, CKrc250, CKrc500 of 9, 12, 18, 24, 36, 48, 72, 96 RPM, with a duty cycle of S2-30 min, S4-25% or S4-50% for 3 phase models, maximum external load contacts 150 Vac, 5 A inductive load (cos > 0.8), 0.5 A resistive load; operating ambient temperature range -40 °C to +70 °C.

The actuator range consisting of the following model types:

**Overview technical data – Regulating/modulating CKr Standard / CKrc**

Models	Rated output torque (max.) (lbs.ft.)	Rated output torque (operational) (lbs.ft.)	RPM (at 50 Hz)	RPM (at 60 Hz)**
<b>CKr30 and CKrc30</b>	22	11	9, 12, 18, 24, 36, 48, 72, 96	11, 14, 21, 29, 43, 57, 86, 115
<b>CKr60 and CKrc60</b>	44	22	9, 12, 18, 24, 36, 48, 72, 96	11, 14, 21, 29, 43, 57, 86, 115
<b>CKr120 and CKrc120</b>	89	44	9, 12, 18, 24, 36, 48, 72, 96	11, 14, 21, 29, 43, 57, 86, 115
<b>CKr250 and CKrc250</b>	184	89	9, 12	11, 14
			18, 24	21, 29
			36, 48	43, 57
			72, 96	86, 115
<b>CKr500 and CKrc500</b>	369	148	9, 12	11, 14
			18, 24	21, 29
			36, 48	43, 57
			72, 96	86, 115

Notes:

- (1) All models class I, pollution degree 2, overvoltage category II, IP68 protected.
- (2) Mode of operation: Short-term operation.
- (3) Environmental Conditions: 2000 m max.



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\*\*60 Hz actuator operating speed will be 120% of 50Hz

Model(s)
PART C – CKA, CKRA series isolating and modulating duty valve actuators

**CK series and CKRA series Isolating duty valve actuators – 3 Phase models**

CK series and CKA series isolating duty valve actuators  
 Rated 220, 240, 380, 400, 415, 440, 500 V at 50 Hz,  
 rated 220, 240, 380, 440, 460, 480, 600 V at 60 Hz  
 with a duty cycle of up to S2-30 min (See overview technical data)  
 maximum external load contacts 250 Vac, 2 A; Customer Supply 24VDC, 120VAC 5W;  
 Optional External load Contacts 24VDC, 2A; 250 Vac 0.5A;  
 operating ambient temperature range -40 °C to +70 °C.

**CK series and CKRA, series modulating duty valve actuators – 3 Phase models**

CK series and CKA series modulating duty valve actuators,  
 Rated 220, 240, 380, 400, 415, 440 V at 50 Hz,  
 rated 220, 240, 380, 440, 460, 480 V at 60 Hz  
 with a duty cycle of up to S2-30 min or S4-25% (See overview technical data)  
 maximum external load contacts 250 Vac, 2 A; Customer Supply 24VDC, 120VAC 5W;  
 Optional External load Contacts 24VDC, 2A; 250 Vac 0.5A;  
 operating ambient temperature range -40 °C to +70 °C.

**CK series and CKA, series Isolating duty valve actuators – 1 Phase models**

CK series and CKA series isolating duty valve actuators,  
 Rated 110, 115, 220, 230, 240 V at 50 Hz, 1 phase,  
 rated 110, 115, 220, 230, 240 V at 60 Hz, 1 phase,  
 with a duty cycle of up to S2-15 min (See overview technical data)  
 maximum external load contacts 250 Vac, 2 A; Customer Supply 24VDC, 120VAC 5W;  
 Optional External load Contacts 24VDC, 2A; 250 Vac 0.5A;  
 operating ambient temperature range -40 °C to +70 °C.

**Overview technical data – Isolating CK Standard / CKA – 3 phase**

Models	Rated output torque (max.) (lbs.ft.)	Rated output torque (operational) (lbs.ft.)	RPM (at 50 Hz)	RPM (at 60 Hz)**
CK30 and CKA30	22	7	9, 12, 18, 24, 36, 48, 72, 96, 144	11, 14, 21, 29, 43, 57, 86, 115, 173
	18		192	230



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<b>CK60 and CKA60</b>	44	15	9, 12, 18, 24, 36, 48, 72, 96, 144	11, 14, 21, 29, 43, 57, 86, 115, 173
	37		192	230
<b>CK120 and CKA120</b>	89	30	9, 12, 18, 24, 36, 48, 72, 96, 144	11, 14, 21, 29, 43, 57, 86, 115, 173
	74		192	230
<b>CK250 and CKA250</b>	184	61	9, 12, 18, 24, 36, 48, 72, 96, 144	11, 14, 21, 29, 43, 57, 86, 115, 173
	148		192	230
<b>CK500 and CKA500</b>	369	123	9, 12, 18, 24, 36, 48, 72, 144	11, 14, 21, 29, 43, 57, 86, 173
	295		192	230

**Overview technical data – Isolating CK Standard / CKa – 1 phase**

Models	Rated output torque (max.) (lbs.ft.)	Rated output torque (operational) (lbs.ft.)	RPM (at 50 Hz)	RPM (at 60 Hz)**
<b>CK30 and CKA30</b>	22	7	18, 24, 36, 48, 72, 96, 144	21, 29, 43, 57, 86, 115, 173
	18		192	230
<b>CK60 and CKA60</b>	44	15	18, 24, 36, 48, 72, 96, 144	21, 29, 43, 57, 86, 115, 173
	37		192	230
<b>CK120 and CKA120</b>	89	30	18, 24, 36, 48, 72, 96, 144	21, 29, 43, 57, 86, 115, 173
	74		192	230
<b>CK250 and CKA250</b>	184	61	18,24, 36, 48	21, 29, 43, 57

**Overview technical data – Modulating CK Standard / CKRA – 3 phase**

Models	Rated output torque (max.) (lbs.ft.)	Rated output torque (operational) (lbs.ft.)	RPM (at 50 Hz)	RPM (at 60 Hz)**
<b>CK30 and CKRA30</b>	22	7	9, 12, 18, 24, 36, 48, 72, 96	11, 14, 21, 29, 43, 57, 86, 115
<b>CK60 and CKRA60</b>	44	15	9, 12, 18, 24, 36, 48, 72, 96	11, 14, 21, 29, 43, 57, 86, 115
<b>CK120 and CKRA120</b>	89	30	9, 12, 18, 24, 36	11, 14, 21, 29



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<b>CK250 and CKRA250</b>	184	61	9, 12	11, 14
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**Notes:**

- (1) All models class I, pollution degree 2, overvoltage category II, IP68 protected.
- (2) Mode of operation: Short-term operation.
- (3) Environmental Conditions: 2000 m max.
- (4) During 60 Hz supply, actuator operating speed will be 120% of 50Hz

Conditions of Acceptability

- (1) A switch or circuit breaker must be included in the wiring installation to the actuator. The switch or circuit breaker shall meet the relevant requirements of IEC60947-1 and IEC60947-3 or equivalent standard, which shall be an approved type acceptable to the authorities in the country where the equipment is sold and shall be suitable for the application. The switch or circuit breaker shall not disconnect the protective earth conductor. The switch or circuit breaker shall be mounted as close to the actuator as possible and shall be marked to indicate that it is the disconnect device for that particular actuator.
- (2) The main supply cord set shall be an approved type acceptable to the authorities in the country where the equipment is sold. The rating of supply cord installed at final equipment is specified in user manual, the consideration and evaluation is taken at final system.
- (3) The overcurrent protection device shall be an approved type acceptable to the authorities where the equipment is sold and shall be suitable for the application.
- (4) Equipment is only to be installed by trained personnel.
- (5) If at any time there is a conflict between the system safety provisions and any relevant local (national or regional) requirements, the local requirements always take precedence.
- (6) Equipment has only been tested for electrical safety. No evaluation of functional safety and performance characteristics has been conducted.
- (7) Equipment is not intended for use in hazardous locations.

**APPLICABLE REQUIREMENTS**

<b>Standards Used</b>	<b>Description</b>
CSA C22.2 No. 61010-1-12, Rev May 11, 2012	Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use
UL 61010-1, Third Edition, Rev May 11, 2012	UL Standard for Safety Electrical Equipment For Measurement, Control, and Laboratory Use; Part 1: General Requirements - Third Edition



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**MARKINGS**

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.


Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.



The following markings appear on the product:

1. Submitter's identification (company name and/or file number and/or registered tradename);
2. Model designation;
3. Electrical rating;
4. Date of manufacture: Month and year of manufacture or date code. If a serial number is used instead of date of manufacture, a record of serial numbers shall be kept traceable to date of manufacture. (Not related to date of sale).
5. The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US, or with adjacent indicator 'US' for US only, or without either indicator for Canada only:



6. Protective earthing TERMINAL is identified by the IEC 60417 No 5019 symbol , adjacent to the TERMINAL.
7. The IEC 60417 Symbols 5007-a and 5008-a ("I" and "O"), or equivalent, on or adjacent to the principal on/off switch/circuit breaker when serving as a disconnect device; "I" inside a circle for push-push type switches.

The following additional markings are also provided:




Symbol	Reference	Title
	IEC 60417-5032-1	Three-phase alternating current
	IEC 60417-5019	Protective earth (ground)





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Symbol	Reference	Title
	IEC 60417-5007	“ON” (power)
	IEC 60417-5008	“OFF” (power)
	ISO 7000-0434A	Caution

**Notes:**

Products certified under Class C225206, C225286 have been certified under CSA’s ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). [www.scc.ca](http://www.scc.ca)

