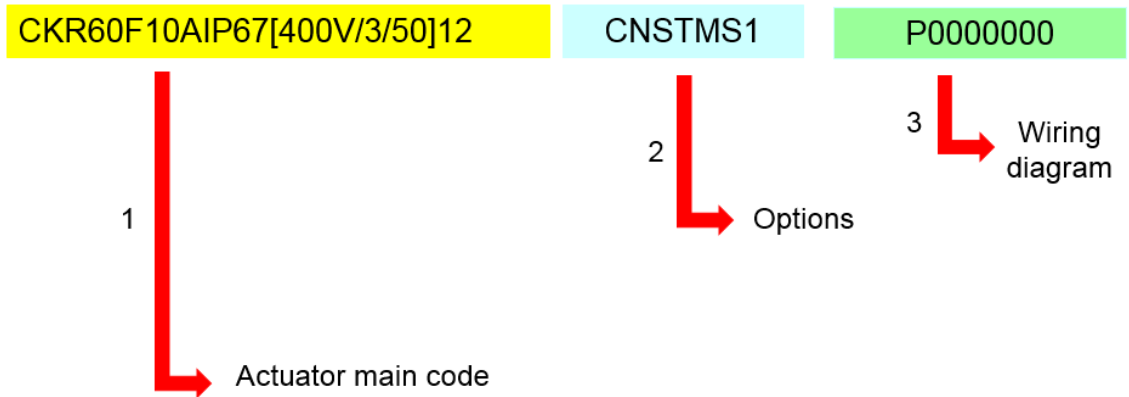


**TITLE:** MULTI-TURN CK ACTUATORS. CODIFIATION SYSTEM  
**MODELS:** CK, CKR, CKC, CKRC

CK range actuators are defined according to a set of parameters and variants. Refer to CK range brochure publication, PUB111-001 document, for a complete description of the CK range actuators.

The following chart shows the actuator code definition. An electric actuator code is defined/composed by 3 different fields, as example:



Where,

**1. Actuator main code:**

Position 1	Position 2	Position 3	Position 4	Position 5	Position 6	Position 7	Position 8
CKR		60	F10	A	WT	[400V/3/50]	12

F07	F07
F10	F10
F14	F14
FA07	FA07
FA10	FA10
FA14	FA14

A	A
B1	B1
B3	B3
B4	B4

[220V/3/50]	AC 3-220V/50Hz
[240V/3/50]	AC 3-240V/50Hz
[380V/3/50]	AC 3-380V/50Hz
[400V/3/50]	AC 3-400V/50Hz
[415V/3/50]	AC 3-415V/50Hz
[440V/3/50]	AC 3-440V/50Hz
[500V/3/50]	AC 3-500V/50Hz
[220V/3/60]	AC 3-220V/60Hz
[240V/3/60]	AC 3-240V/60Hz
[380V/3/60]	AC 3-380V/60Hz
[440V/3/60]	AC 3-440V/60Hz
[460V/3/60]	AC 3-460V/60Hz
[480V/3/60]	AC 3-480V/60Hz
[600V/3/60]	AC 3-600V/60Hz
[110V/1/50]	AC 1-110V/50Hz
[115V/1/50]	AC 1-115V/50Hz
[220V/1/50]	AC 1-220V/50Hz
[230V/1/50]	AC 1-230V/50Hz
[240V/1/50]	AC 1-240V/50Hz
[110V/1/60]	AC 1-110V/60Hz
[115V/1/60]	AC 1-115V/60Hz
[220V/1/60]	AC 1-220V/60Hz
[230V/1/60]	AC 1-230V/60Hz
[240V/1/60]	AC 1-240V/60Hz

9	9 rpm
12	12 rpm
18	18 rpm
24	24 rpm
36	36 rpm
48	48 rpm
72	72 rpm
96	96 rpm
144	144 rpm
192	192 rpm

30	30 N.m
60	60 N.m
120	120 N.m
250	250 N.m
500	500 N.m

	Standard actuator
C	CENTRONIK (integral control unit)

CK	Isolating (On-Off)
CKR	Modulating

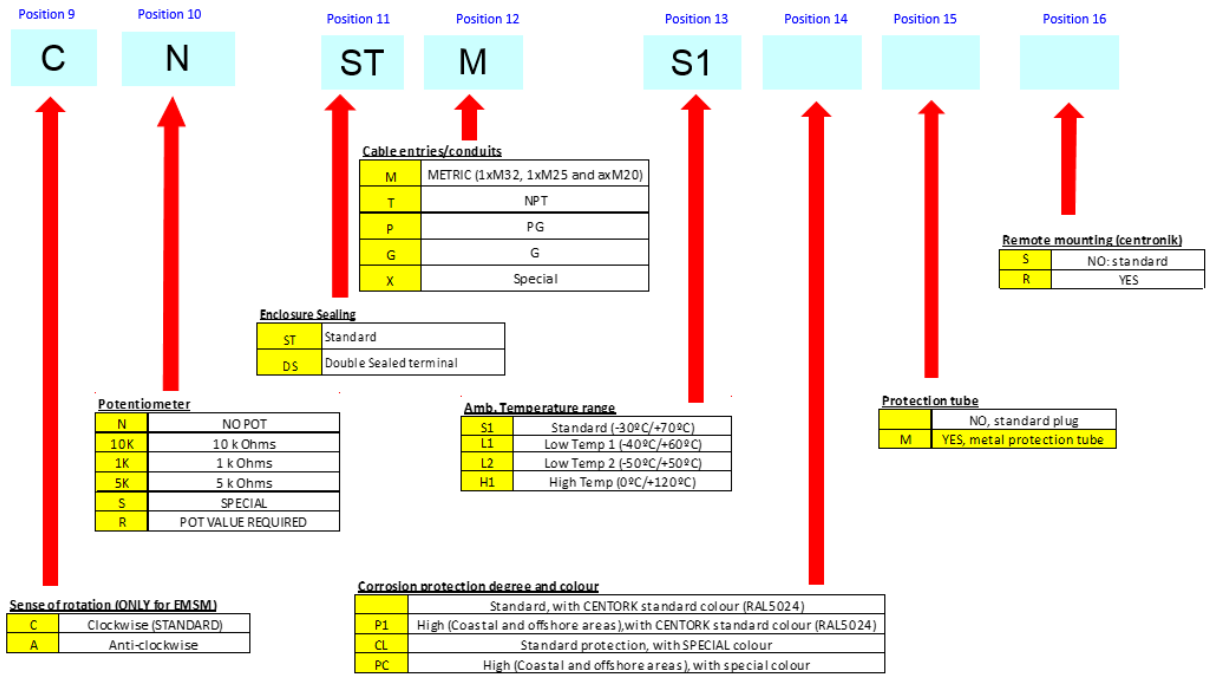
  

WT	IP68, water-tight
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- Due to technical and engineering constrains, not all configurations/variants are possible and or available. Check actuator and motor datasheets.
- Position n°4: F07, F10, F14 according to ISO5210. FA07, FA10, FA14 according to MSS SP-102 standard.

Rotork Controls. All rights reserved. Subject to change without notice. Previous data sheets invalid with the issue of the latest data sheets. Due to production tolerance variation, the electrical values shown are averages compiled from Actuator production test data. Values are therefore provided for guidance only. Individual production tests are available on request (nominal load not included). Rotork Controls underwrite rated torque output only (specified tolerance -0/+10%)

**2. Options code:**



**3. Wiring diagram**

See proper CK range datasheets

- **E. CK00040:** MULTI-TURN CK STANDARD ACTUATORS. TERMINAL AND WIRING DIAGRAMS. CK AND CKR RANGE
- **E. CK00045:** MULTI-TURN CK ACTUATORS WITH CENTRONIK UNITS. TERMINAL AND WIRING DIAGRAMS. CKC AND CKRC RANGE

CK range actuators have an assigned wiring diagram and terminal plan for the specific build of the subject actuator. These are incorporated into one document that details the electrical connections and terminal allocations within the unit. Each document has an assigned code that will be required for actuator commissioning support.

**4. Other information**

For a correct actuator definition, it is recommended to define the valve stroke (number of turns), referred to the actuator output shaft.

- CK range actuators with centronik, with digital switch mechanism -absolute encoder- DSM: Actuator output shaft stroke up to 8.000 turns
- CK range actuators with centronik, with mechanical switch mechanism EMSM: actuator output shaft stroke up to 1.500 turns, optional, up to 15.000 turns. For a correct sizing of some options of the mechanical switch mechanism EMSM (Potentiometer, current transmitter, intermediate position switches...)

Due to technical and engineering constrains, no all configurations/variants are possible. Check that required wiring diagram (WD) exist and is available. Special variants under request. For any additional clarification, contact with Rotork.

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