

**TITLE: MOTOR DATA. ISOLATING RANGE S2-15 MIN DUTY CYCLE, AC 1-110V/50Hz SINGLE PHASE**  
**MODELS: CK, CKA, CKC**

| Actuator model |            | Output speed (rpm) | Max. tripping torque (N.m) | Nominal torque (N.m) | Motor speed (rpm) | Nominal Power (kW) | Nominal current (A) | Power at max tripping torque (kW) | Current at max tripping torque (A) | Locked rot. current (A) | Power factor (nominal) $\cos \varphi$ | Overcurrent prot. device setting (A) | Contactor |
|----------------|------------|--------------------|----------------------------|----------------------|-------------------|--------------------|---------------------|-----------------------------------|------------------------------------|-------------------------|---------------------------------------|--------------------------------------|-----------|
| <b>CK30</b>    | <b>18</b>  | 18                 | <b>30</b>                  | <b>10</b>            | 1440              | 0,23               | 2,1                 | 0,34                              | 3,1                                | 7,6                     | 0,98                                  | 3,1                                  | Standard  |
|                | <b>24</b>  | 24                 |                            |                      | 1440              | 0,23               | 2,1                 | 0,35                              | 3,2                                | 7,6                     | 0,98                                  | 3,2                                  | Standard  |
|                | <b>36</b>  | 36                 |                            |                      | 1440              | 0,24               | 2,2                 | 0,35                              | 3,2                                | 9,4                     | 0,97                                  | 3,2                                  | Standard  |
|                | <b>48</b>  | 48                 |                            |                      | 1440              | 0,23               | 2,1                 | 0,39                              | 3,5                                | 9,5                     | 0,98                                  | 3,5                                  | Standard  |
|                | <b>72</b>  | 72                 |                            |                      | 1440              | 0,39               | 3,5                 | 0,52                              | 4,7                                | 10,5                    | 0,78                                  | 4,7                                  | Standard  |
|                | <b>96</b>  | 96                 |                            |                      | 1440              | 0,40               | 3,6                 | 0,63                              | 5,7                                | 14,9                    | 0,90                                  | 5,7                                  | Standard  |
|                | <b>144</b> | 144                |                            |                      | 2880              | 0,47               | 4,3                 | 0,79                              | 7,2                                | 26                      | 0,97                                  | 7,2                                  | Standard  |
|                | <b>192</b> | 192                | <b>25</b>                  | <b>8,3</b>           | 2880              | 0,56               | 5,1                 | 1,21                              | 11                                 | 26,3                    | 0,95                                  | 11                                   | Standard  |
| <b>CK60</b>    | <b>18</b>  | 18                 | <b>60</b>                  | <b>20</b>            | 1440              | 0,36               | 3,3                 | 0,55                              | 5                                  | 10,7                    | 0,74                                  | 5                                    | Standard  |
|                | <b>24</b>  | 24                 |                            |                      | 1440              | 0,37               | 3,4                 | 1,13                              | 10,3                               | 25,5                    | 0,97                                  | 10,3                                 | Standard  |
|                | <b>36</b>  | 36                 |                            |                      | 1440              | 0,35               | 3,2                 | 0,68                              | 6,2                                | 16                      | 0,88                                  | 6,2                                  | Standard  |
|                | <b>48</b>  | 48                 |                            |                      | 1440              | 0,35               | 3,2                 | 0,61                              | 5,5                                | 15,8                    | 0,89                                  | 5,5                                  | Standard  |
|                | <b>72</b>  | 72                 |                            |                      | 1440              | 0,55               | 5                   | 0,99                              | 9                                  | 24,1                    | 0,74                                  | 9                                    | Standard  |
|                | <b>96</b>  | 96                 |                            |                      | 1440              | 0,53               | 4,8                 | 1,33                              | 12,1                               | 23,5                    | 0,78                                  | 12,1                                 | Standard  |
|                | <b>144</b> | 144                |                            |                      | 2880              | 0,86               | 7,8                 | 1,82                              | 16,5                               | 35,4                    | 0,86                                  | 16,5                                 | Standard  |
|                | <b>192</b> | 192                | <b>50</b>                  | <b>16,7</b>          | 2880              | 0,462              | 4,2                 | 2,002                             | 9,1                                | 18,8                    | 0,695                                 | 9,1                                  | Standard  |
| <b>CK120</b>   | <b>18</b>  | 18                 | <b>120</b>                 | <b>40</b>            | 1440              | 0,55               | 5                   | 0,88                              | 8                                  | 16,9                    | 0,87                                  | 8                                    | Standard  |
|                | <b>24</b>  | 24                 |                            |                      | 1440              | 0,59               | 5,4                 | 0,91                              | 8,3                                | 24,4                    | 0,85                                  | 8,3                                  | Standard  |
|                | <b>36</b>  | 36                 |                            |                      | 1440              | 0,63               | 5,7                 | 1,24                              | 11,3                               | 24,5                    | 0,87                                  | 11,3                                 | Standard  |
|                | <b>48</b>  | 48                 |                            |                      | 1440              | 0,75               | 6,8                 | 1,39                              | 12,6                               | 30,8                    | 0,73                                  | 12,6                                 | Standard  |
|                | <b>72</b>  | 72                 |                            |                      | 1440              | 1,01               | 9,2                 | 1,74                              | 15,8                               | 45,4                    | 0,60                                  | 15,8                                 | Standard  |
|                | <b>96</b>  | 96                 |                            |                      | 1440              | 1,06               | 9,6                 | 1,99                              | 18,1                               | 45,9                    | 0,73                                  | 18,1                                 | Standard  |
| <b>CK250</b>   | <b>18</b>  | 18                 | <b>250</b>                 | <b>83,3</b>          | 1440              | 0,65               | 5,9                 | 1,30                              | 11,8                               | 31,3                    | 0,80                                  | 11,8                                 | Standard  |
|                | <b>24</b>  | 24                 |                            |                      | 1440              | 0,66               | 6                   | 1,42                              | 12,9                               | 30,2                    | 0,82                                  | 12,9                                 | Standard  |
|                | <b>36</b>  | 36                 |                            |                      | 1440              | 1,05               | 9,5                 | 2,11                              | 19,2                               | 46,9                    | 0,62                                  | 19,2                                 | Standard  |
|                | <b>48</b>  | 48                 |                            |                      | 1440              | 1,02               | 9,3                 | 2,51                              | 22,8                               | 46,7                    | 0,61                                  | 22,8                                 | Standard  |

AC 1-110V/50Hz asynchronous motors. Short-time duty S2 - 15 min, based on nominal torque at 40°C ambient temperature. Insulation class F. (H, under request). Motors are suitable for 60 starts/hour operation.

Motor data is approximate, due to manufacturing tolerances, there may be deviations from the stated values. Permissible variation of the mains voltage:  $\pm 10\%$ . Permissible variation of the mains frequency:  $\pm 5\%$  Electric motors are provided with thermoswitches to protect the motor windings against overheating. Thermoswitches are embedded in the motor windings: If those thermoswitches are not connected, or by-passed, in the control circuit actuators will NO longer comply with the essential safety requirements, in that case Rotork warranty will lapse. CKC electric actuators with centronik-atronik unit, see datasheet for centronik-atronik unit current consumption.

**This sheet is valid for CE MARKED MOTORS only.**

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%)