

**TITLE: MOTOR DATA. MODULATING RANGE S4-50% DUTY CYCLE, AC 3-440V/60Hz THREE PHASE**  
**MODELS: CKR, CKRC**

| 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 $\phi$ | Overcurrent prot. device setting (A) | Contactor | Thyristor | Maximum starts per hour |      |
|----------------|--------------------|----------------------------|----------------------|-------------------|--------------------|---------------------|-----------------------------------|------------------------------------|-------------------------|-----------------------------------|--------------------------------------|-----------|-----------|-------------------------|------|
| CK30           | 011                | 11                         | 30                   | 10                | 720                | 0,22                | 0,51                              | 0,24                               | 0,54                    | 1,03                              | 0,61                                 | 0,54      | N/A       | STANDARD                | 1200 |
|                | 014                | 14                         |                      |                   | 720                | 0,23                | 0,51                              | 0,25                               | 0,57                    | 0,99                              | 0,64                                 | 0,57      | N/A       | STANDARD                | 1200 |
|                | 021                | 21                         |                      |                   | 1440               | 0,15                | 0,33                              | 0,15                               | 0,33                    | 3,17                              | 0,54                                 | 0,33      | N/A       | STANDARD                | 1200 |
|                | 029                | 29                         |                      |                   | 1440               | 0,25                | 0,56                              | 0,32                               | 0,74                    | 3,14                              | 0,49                                 | 0,74      | N/A       | STANDARD                | 1200 |
|                | 043                | 43                         |                      |                   | 1440               | 0,33                | 0,75                              | 0,37                               | 0,84                    | 3,10                              | 0,61                                 | 0,84      | N/A       | STANDARD                | 1200 |
|                | 057                | 57                         |                      |                   | 1440               | 0,34                | 0,76                              | 0,43                               | 0,97                    | 3,13                              | 0,63                                 | 0,97      | N/A       | STANDARD                | 1200 |
|                | 086                | 86                         |                      |                   | 1440               | 0,35                | 0,79                              | 0,50                               | 1,15                    | 3,38                              | 0,49                                 | 1,15      | N/A       | STANDARD                | 1200 |
|                | 115                | 115                        |                      |                   | 1440               | 0,33                | 0,74                              | 0,63                               | 1,43                    | 3,90                              | 0,39                                 | 1,43      | N/A       | STANDARD                | 1200 |
| CK60           | 011                | 11                         | 60                   | 20                | 720                | 0,37                | 0,85                              | 0,42                               | 0,95                    | 1,94                              | 0,47                                 | 0,95      | N/A       | STANDARD                | 1200 |
|                | 014                | 14                         |                      |                   | 720                | 0,38                | 0,86                              | 0,43                               | 0,99                    | 1,99                              | 0,49                                 | 0,99      | N/A       | STANDARD                | 1200 |
|                | 021                | 21                         |                      |                   | 1440               | 0,37                | 0,84                              | 0,50                               | 1,14                    | 3,83                              | 0,45                                 | 1,14      | N/A       | STANDARD                | 1200 |
|                | 029                | 29                         |                      |                   | 1440               | 0,37                | 0,83                              | 0,51                               | 1,17                    | 4,15                              | 0,56                                 | 1,17      | N/A       | STANDARD                | 1200 |
|                | 043                | 43                         |                      |                   | 1440               | 0,37                | 0,83                              | 0,63                               | 1,44                    | 4,05                              | 0,57                                 | 1,44      | N/A       | STANDARD                | 1200 |
|                | 057                | 57                         |                      |                   | 1440               | 0,59                | 1,34                              | 0,77                               | 1,76                    | 6,11                              | 0,51                                 | 1,76      | N/A       | STANDARD                | 1200 |
|                | 086                | 86                         |                      |                   | 1440               | 0,62                | 1,42                              | 0,91                               | 2,07                    | 6,08                              | 0,60                                 | 2,07      | N/A       | STANDARD                | 1200 |
|                | 115                | 115                        |                      |                   | 1440               | 0,62                | 1,42                              | 0,91                               | 2,07                    | 6,08                              | 0,60                                 | 2,07      | N/A       | STANDARD                | 1200 |
| CK120          | 011                | 11                         | 120                  | 40                | 720                | 0,38                | 0,87                              | 0,38                               | 0,87                    | 2,83                              | 0,43                                 | 0,87      | N/A       | STANDARD                | 1200 |
|                | 014                | 14                         |                      |                   | 720                | 0,38                | 0,87                              | 0,38                               | 0,87                    | 2,73                              | 0,37                                 | 0,87      | N/A       | STANDARD                | 1200 |
|                | 021                | 21                         |                      |                   | 1440               | 0,57                | 1,30                              | 0,72                               | 1,63                    | 7,57                              | 0,56                                 | 1,63      | N/A       | STANDARD                | 1200 |
|                | 029                | 29                         |                      |                   | 1440               | 0,57                | 1,30                              | 0,79                               | 1,80                    | 7,73                              | 0,58                                 | 1,80      | N/A       | STANDARD                | 1200 |
|                | 043                | 43                         |                      |                   | 1440               | 0,56                | 1,27                              | 0,98                               | 2,23                    | 7,43                              | 0,57                                 | 2,23      | N/A       | STANDARD                | 1200 |
|                | 057                | 57                         |                      |                   | 1440               | 0,92                | 2,10                              | 1,23                               | 2,80                    | 13,80                             | 0,52                                 | 2,80      | N/A       | STANDARD                | 1200 |
|                | 086                | 86                         |                      |                   | 1440               | 0,81                | 1,83                              | 1,51                               | 3,43                    | 10,23                             | 0,70                                 | 3,43      | N/A       | STANDARD                | 1200 |
|                | 115                | 115                        |                      |                   | 1440               | 0,98                | 2,23                              | 1,95                               | 4,43                    | 13,63                             | 0,61                                 | 4,43      | N/A       | STANDARD                | 1200 |
| CK250          | 011                | 11                         | 250                  | 83,3              | 720                | 0,79                | 1,80                              | 0,92                               | 2,10                    | 5,80                              | 0,47                                 | 2,10      | N/A       | STANDARD                | 1200 |
|                | 014                | 14                         |                      |                   | 720                | 1,28                | 2,90                              | 1,28                               | 2,90                    | 10,97                             | 0,26                                 | 2,90      | N/A       | STANDARD                | 1200 |
|                | 021                | 21                         |                      |                   | 1440               | 0,81                | 1,83                              | 0,81                               | 1,83                    | 13,83                             | 0,48                                 | 1,83      | N/A       | STANDARD                | 900  |
|                | 029                | 29                         |                      |                   | 1440               | 0,78                | 1,77                              | 0,78                               | 1,77                    | 17,03                             | 0,33                                 | 1,77      | N/A       | STANDARD                | 900  |
|                | 043                | 43                         |                      |                   | 1440               | 0,75                | 1,70                              | 1,47                               | 3,33                    | 15,07                             | 0,59                                 | 3,33      | N/A       | STANDARD                | 600  |
|                | 057                | 57                         |                      |                   | 1440               | 0,89                | 2,03                              | 1,94                               | 4,40                    | 15,23                             | 0,67                                 | 4,40      | N/A       | STANDARD                | 600  |
|                | 086                | 86                         |                      |                   | 1440               | 1,32                | 3,00                              | 1,32                               | 3,00                    | 27,53                             | 0,22                                 | 3,00      | N/A       | STANDARD                | 400  |
|                | 115                | 115                        |                      |                   | 1440               | 1,69                | 3,83                              | 3,31                               | 7,53                    | 27,97                             | 0,65                                 | 7,53      | N/A       | STANDARD                | 400  |
| CK500          | 011                | 11                         | 500                  | 166,7             | 720                | 1,31                | 2,97                              | 1,31                               | 2,97                    | 10,70                             | 0,33                                 | 2,97      | N/A       | STANDARD                | 1200 |
|                | 014                | 14                         |                      |                   | 720                | 1,25                | 2,83                              | 1,25                               | 2,83                    | 10,67                             | 0,19                                 | 2,83      | N/A       | STANDARD                | 1200 |
|                | 021                | 21                         |                      |                   | 1440               | 1,69                | 3,83                              | 2,35                               | 5,33                    | 26,97                             | 0,50                                 | 5,33      | N/A       | STANDARD                | 900  |
|                | 029                | 29                         |                      |                   | 1440               | 1,69                | 3,83                              | 2,35                               | 5,33                    | 26,97                             | 0,50                                 | 5,33      | N/A       | STANDARD                | 900  |
|                | 043                | 43                         |                      |                   | 1440               | 1,32                | 3,00                              | 1,32                               | 3,00                    | 26,60                             | 0,07                                 | 3,00      | N/A       | STANDARD                | 600  |
|                | 057                | 57                         |                      |                   | 1440               | 1,47                | 3,33                              | 1,47                               | 3,33                    | 31,07                             | 0,21                                 | 3,33      | N/A       | STANDARD                | 600  |
|                | 086                | 86                         |                      |                   | 1440               | 1,88                | 4,27                              | 1,88                               | 4,27                    | 55,50                             | 0,42                                 | 4,27      | N/A       | STANDARD                | 400  |
|                | 115                | 115                        |                      |                   | 1440               | 1,77                | 4,03                              | 1,77                               | 4,03                    | 55,57                             | 0,29                                 | 4,03      | N/A       | STANDARD                | 400  |

AC 3-440V/60Hz asynchronous motors. Short-time duty S4 – 50%, based on nominal torque at 40°C ambient temperature. Insulation class H .

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 thermostiches to protect the motor windings against overheating. Thermostiches are embedded in the motor windings: If those thermostiches 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 unit, see datasheet for centronik unit current consumption.

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%)