Bettis RTS

CM64 Modification from 100 to 300 Revolutions





This page intentionally left blank

Table of Contents

Section 1:	Modification of CM64 from max.100 to max. 300 rev./stroke	
1.1	Requirements	1
1.2	Modification Procedure	1

Table of Contents i

This page intentionally left blank

Section 1: Modification of CM64 from max.100 to max. 300 rev./stroke

1.1 Requirements

- Dismount actuator from valve
- Bring actuator in a workshop/workbench
- Prepare all tools and required parts
- This application only applies to CM64, not CM32

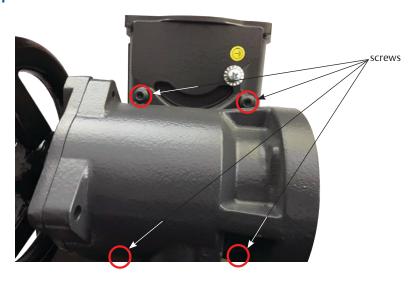
1.2 Modification Procedure

1. Open the screws between electric housing and mechanical housing.

NOTE:

Make sure that the display is on top position because mechanical housing is filled with oil.

Figure 1



Modification of CM64

Figure 2





2. Remove the pinion by loosening the worm screw.

Figure 3





2 Modification of CM64

3. Remove the clipper and replace on the groove below.

Figure 4





4. Mount the pinion back on the shaft and secure it with the worm screw.

Figure 5



Modification of CM64 3

5. Place the washer on the shaft and afterwards put the pinion on it.

Figure 6



6. Secure the pinion with a clipper.

Figure 7



- 7. Make sure that this gear is rotating well by turning the handwheel.
- 8. Assemble both housings together, making sure the pinions from the electrical and mechanical housings interlock correctly.

4 Modification of CM64

- 9. Parameter configuration
 - Go to System parameters P19.1 and enter password (the password is different for each actuator).
 - For standard SmartTool License Users, please consult Emerson Sales Team for Smart Key to change the parameters.
- A. Change from 100 to 300 revolutions per stroke

Table 1. P19.10

Old value	New value
4	5
9	10
12	13
16	17

Table 2. P19.11

Old value	New value
0	1

B. Change from 300 to 100 revolutions per stroke

Table 3. P19.10

Old value	New value
5	4
10	9
13	12
17	16

Table 4. P19.11

Old value	New value
1	0

C. Parameter P19.10 actuator type references

Table 5. P19.10

4	CM06 up 100U BLDC 9.3
5	CM06 more than 100U BLDC 9.3
9	CM06 up 100U BLDC 8.3
10	CM06 more than 100U BLDC 8.3
12	CM06 24V up 100U BLDC 9.1
13	CM06 24V more than 100U BLDC 9.1
16	CM06 up 100U BLDC 10.3
17	CM06 more than 100U BLDC 10.3

10. Set end limits.

Modification of CM64 5

World Area Configuration Centers (WACC) offer sales support, service, inventory and commissioning to our global customers. Choose the WACC or sales office nearest you:

NORTH & SOUTH AMERICA

MIDDLE EAST & AFRICA

19200 Northwest Freeway Houston TX 77065

USA

T+1 281 477 4100

Av. Hollingsworth 325 Iporanga Sorocaba SP 18087-105

Brazil

T+55 15 3413 8888

ASIA PACIFIC

No. 9 Gul Road #01-02 Singapore 629361 T +65 6777 8211

No. 1 Lai Yuan Road Wuqing Development Area Tianjin 301700 P. R. China T +86 22 8212 3300

P. O. Box 17033 Jebel Ali Free Zone

Dubai

T+971 4 811 8100

P. O. Box 10305 Iubail 31961 Saudi Arabia T+966 3 340 8650

24 Angus Crescent

Longmeadow Business Estate East P.O. Box 6908 Greenstone 1616 Modderfontein Extension 5

South Africa T+27 11 451 3700

EUROPE

Holland Fasor 6 Székesfehérvár 8000 Hungary

T+36 22 53 09 50

Strada Biffi 165 29017 Fiorenzuola d'Arda (PC)

Italy

T+39 0523 944 411

For complete list of sales and manufacturing sites, please visit www.emerson.com/actuationtechnologieslocations or contact us at info.actuationtechnologies@emerson.com

www.emerson.com/bettis

VCIOM-17117-EN ©2022 Emerson. All rights reserved.

The Emerson logo is a trademark and service mark of Emerson Electric Co. Bettis™ is a mark of one of the Emerson family of companies. All other marks are property of their respective owners.

The contents of this publication are presented for information purposes only, and while effort has been made to ensure their accuracy, they are not to be construed as warranties or guarantees, express or implied, regarding the products or services described herein or their use or applicability. All sales are governed by our terms and conditions, which are available on request. We reserve the right to modify or improve the designs or specifications of our products at any time without notice.



