

Electronic units and accessories for upgrading older H&B/S&F actuators to Contrac

Keeps actuators and their reliability in good condition

Option to upgrade actuators of the older generation
to newest technology

Saves costs since costly valves and actuators are kept

Electrical interfaces to old and new DCS

Simple upgrade even on site possible

Up-to-date electronic units for field- or cubicle
installation

Cost-effective solution to ensure lesser down-time
in your facility

Expert advice, planning and realization by a competent
partner

General

S&F actuators of the older generations can be upgraded to the smart and intelligent Contrac type with very low effort. This requires a good actuator condition in general. If this is not the case the upgrade is also possible within a major overhaul in the ABB service workshop or on site.

- Replace the old position transmitter by the Contrac position sensor SP1
- Upgrade the old 2-phase servo motor to Contrac (remove ta-cho generator and brake rectifier, in some cases new motor required)
- Contrac electronic unit EBN 853 or EBS 852 replaces the previous control unit.

- The power electronic unit provides the rotary field for the motor. No phase shifting capacitor required.
- Wiring modification for motor and sensor required.
- Some linear actuators require an exchange of the position transmitter drive.

Upgraded actuators of the older generation provide nearly the entire functions of the Contrac series.

See data sheet 10/68-8.27 and 10/68-8.24 for dimensions and technical detail of electronic units.

See data sheet 10/68-2.40. for user specific software settings.

Part-turn actuators

Conventional Program			Contrac		
Actuator type	Motor	Remark	Actuator type after upgrade	Motor designation after upgrade	New motor
RST/RH 12-10	M 163 L/LT		RHC 12-10	MC 163 LR	
RST/RH 25-10	M 403 L/LT		RHC 25-10	MC 403 LR	
RST/RH 25-30	M 163 L/LT		RHC 25-30	MC 163 LR	
RST/RH 40-10	M 753 L/LT		RHC 40-10	MC 753 LR	
RST/RH 60-10	M 1203 L/LT		RHC 60-10	MC 1203 LR	
RST/RH 60-30	M 403 L/LT		RHC 60-30	MC 403 LR	
RST/RH 60-60	M 163 L/LT		RHC 60-60	MC 163 LR	
RST/RH 125-10	M 2403 L/LT	new motor required	RHC 125-10		MCS 90 BA
RST/RH 125-30	M 753 L/LT		RHC 125-30	MC 753 LR	
RST/RH 125-60	M 403 L/LT		RHC 125-60	MC 403 LR	
RST/RH 200-30	M 1203 L/LT		RHC 200-30	MC 1203 LR	
RST/RH 250-60	M 753 L/LT		RHC 250-60	MC 753 LR	
RST/RH 400-30	M 2403 L/LT	new motor required	RHC 400-30		MCS 90 BA
RST/RH 400-60	M 1203 L/LT		RHC 400-60	MC 1203 LR	

Conventional Program			Contract		
Actuator type	Motor	Remark	Actuator type after upgraded	Motor designation after upgrade	New motor
RHA 250-10	M 403 L/LT		RHB 250-10	MC 403 LR	
RHA 250-30	M 163 L/LT		RHB 250-30	MC 163 LR	
RHA 250-70	M 063	new motor required, no additional gearing	RHB 250-30		MC 163 LR
RHA 500-10	M 1203 L/LT		RHB 500-10	MC 1203 LR	
RHA 500-60	M 163 L/LT		RHB 500-60	MC 163 LR	
RHA 800-15	M 1203 L/LT		RHB 800-15	MC 1203 LR	
RHA 800-35	M 403 L/LT		RHB 800-35	MC 403 LR	
RHA 1250-12	M 2403 L/LT	new motor required	RHB 1250-12		MCS 90 BA
RHA 1250-35	M 753 L/LT		RHB 1250-35	MC 753 LR	
RHA 1250-60	M 403 L/LT		RHB 1250-60	MC 403 LR	
RHA 2500-25	M 2403 L/LT	new motor required	RHB 2500-25		MCS 90 BA
RHA 2500-45	M 1203 L/LT		RHB 2500-45	MC 1203 LR	
RHA 2500-70	M 753 L/LT		RHB 2500-70	MC 753 LR	
RHA 4000-40	M 2403 L/LT	new motor required	RHB 4000-40		MCS 90 BA
RHA 4000-70	M 1203 L/LT		RHB 4000-70	MC 1203 LR	
RHA 8000-80	M 2403 L/LT	new motor required	RHB 8000-80		MCS 90 BA

Linear actuators

Conventional Program			Contrac		
Actuator type	Motor	Remark	Actuator type after upgrade	Motor designation after upgrade	New motor
RS 10-0,4 stroke 25 ... 50 mm	M 063	new motor required, no additional gearing	RSB 10-1,3 stroke 20 ... 100 mm		MC 163 LR
RS 10-0,4 stroke 50 ... 100 mm	M 063	new motor required, no additional gearing; replace position sensor drive	RSB 10-1,3 stroke 20 ... 100 mm		MC 163 LR
RS 10-0,4 stroke 120 ... 300 mm	M 063	new motor required, no additional gearing; replace position sensor drive	RSB 10-1,3 stroke 90 ... 300 mm		MC 163 LR
RS 10-1,3 stroke 25 ... 50 mm	M 163 L/LT		RSB 10-1,3 stroke 20 ... 100 mm	MC 163 LR	
RS 10-1,3 stroke 50 ... 100 mm	M 163 L/LT	replace position sensor drive	RSB 10-1,3 stroke 20 ... 100 mm	MC 163 LR	
RS 10-1,3 stroke 120 ... 300 mm	M 163 L/LT	replace position sensor drive	RSB 10-1,3 stroke 90 ... 300 mm	MC 163 LR	
RS 10-3,0 stroke 25 ... 50 mm	M 403 L/LT		RSB 10-3,0 stroke 20 ... 100 mm	MC 403 LR	
RS 10-3,0 stroke 50 ... 100 mm	M 403 L/LT	replace position sensor drive	RSB 10-3,0 stroke 20 ... 100 mm	MC 403 LR	
RS 10-3,0 stroke 120 ... 300 mm	M 403 L/LT	replace position sensor drive	RSB 10-3,0 stroke 90 ... 300 mm	MC 403 LR	
RS 10-5,0 stroke 25 ... 50 mm	M 753 L/LT		RSB 10-5,0 stroke 20 ... 100 mm	MC 753 LR	
RS 10-5,0 stroke 50 ... 100 mm	M 753 L/LT	replace position sensor drive	RSB 10-5,0 stroke 20 ... 100 mm	MC 753 LR	
RS 10-5,0 stroke 120 ... 300 mm	M 753 L/LT	replace position sensor drive	RSB 10-5,0 stroke 90 ... 300 mm	MC 753 LR	
RS 20-0,6 stroke 25 ... 50 mm	M 163 L/LT		RSB 20-0,6 stroke 20 ... 100 mm	MC 163 LR	
RS 20-0,6 stroke 50 ... 100 mm	M 163 L/LT	replace position sensor drive	RSB 20-0,6 stroke 20 ... 100 mm	MC 163 LR	
RS 20-0,6 stroke 120 ... 300 mm	M 163 L/LT	replace position sensor drive	RSB 20-0,6 stroke 90 ... 300 mm	MC 163 LR	
RS 20-1,5 stroke 25 ... 50 mm	M 403 L/LT		RSB 20-1,5 stroke 20 ... 100 mm	MC 403 LR	
RS 20-1,5 stroke 50 ... 100 mm	M 403 L/LT	replace position sensor drive	RSB 20-1,5 stroke 20 ... 100 mm	MC 403 LR	
RS 20-1,5 stroke 120 ... 300 mm	M 403 L/LT	replace position sensor drive	RSB 20-1,5 stroke 90 ... 300 mm	MC 403 LR	

Conventional Program			Contrac		
Actuator type	Motor	Remark	Actuator type after upgrade	Motor designation after upgrade	New motor
RS 20-2,5 stroke 25 ... 50 mm	M 753 L/LT		RSB 20-2,5 stroke 20 ... 100 mm	MC 753 LR	
RS 20-2,5 stroke 50 ... 100 mm	M 753 L/LT	replace position sensor drive	RSB 20-2,5 stroke 20 ... 100 mm	MC 753 LR	
RS 20-2,5 stroke 120 ... 300 mm	M 753 L/LT	replace position sensor drive	RSB 20-2,5 stroke 90 ... 300 mm	MC 753 LR	
RS 20-4,0 stroke 25 ... 50 mm	M 1203 L/LT		RSB 20-4,0 stroke 20 ... 100 mm	MC 1203 LR	
RS 20-4,0 stroke 50 ... 100 mm	M 1203 L/LT	replace position sensor drive	RSB 20-4,0 stroke 20 ... 100 mm	MC 1203 LR	
RS 20-4,0 stroke 120 ... 300 mm	M 1203 L/LT	replace position sensor drive	RSB 20-4,0 stroke 90 ... 300 mm	MC 1203 LR	
RS 50-1,5 stroke 30 ... 60 mm	M 1203 L/LT		RSB 50-1,5 stroke 25 ... 120 mm	MC 1203 LR	
RS 50-1,5 stroke 60 ... 120 mm	M 1203 L/LT	replace position sensor drive	RSB 50-1,5 stroke 25 ... 120 mm	MC 1203 LR	
RS 50-1,5 stroke 120 ... 300 mm	M 1203 L/LT	replace position sensor drive	RSB 50-1,5 stroke 100 ... 300 mm	MC 1203 LR	
RS 100-0,8 stroke 60 ... 150 mm	M 1203 L/LT	replace position sensor drive	RSB 100-0,8 stroke 25 ... 150 mm	MC 1203 LR	
RS 100-0,8 stroke 120 ... 300 mm	M 1203 L/LT	replace position sensor drive	RSB 100-0,8 stroke 100 ... 300 mm	MC 1203 LR	
RS 100-1,5 stroke 60 ... 150 mm	M 2403 L/LT	new motor required; replace position sensor drive	RSB 100-1,5 stroke 25 ... 150 mm		MCS 90 BA
RS 100-1,5 stroke 120 ... 300 mm	M 2403 L/LT	new motor required; replace position sensor drive	RSB 100-1,5 stroke 100 ... 300 mm		MCS 90 BA
RS 200-0,7 stroke 30 ... 75 mm	M 2403 L/LT	new motor required	RSB 200-0,7 stroke 30 ... 180 mm		MCS 90 BA
RS 200-0,7 stroke 75 ... 180 mm	M 2403 L/LT	new motor required; replace position sensor drive	RSB 200-0,7 stroke 30 ... 180 mm		MCS 90 BA
RS 200-0,7 stroke 120 ... 300 mm	M 2403 L/LT	new motor required; replace position sensor drive	RSB 200-0,7 stroke 100 ... 300 mm		MCS 90 BA

Restrictions

The following actuators are not upgradable, however, a complete Contrac actuator is available as a successor model.

Actuator	Remark
RST/RH 2-60	upgrade option or alternative Contrac actuator not available; replace by Contrac PME if required
RST/RH 4-60	
RST/RH 5-30	replace by CONTRAC PME 120 with adapter plate
RST/RH 8-30	replace by CONTRAC PME 120 with adapter plate
RST/RH 10-60	replace by CONTRAC PME 120 with adapter plate
RS 4-0,5	replace by CONTRAC LME 620
RS 4-1,0	replace by CONTRAC LME 620

Required upgrade measures at the actuator

Change of position transmitter¹⁾

- replace the position sensor by new Contrac sensor; type SP 1
- modify the internal wiring between plug and sensor acc. to wiring scheme 1

Remark:

The relay output contacts of the Contrac electronic units replace the mechanical signal switches of the conventional position transmitter.

Change of position transmitter drive¹⁾

Change the position transmitter drive at the linear actuators as indicated in the tables before. The new drives adapt the mechanical transmission ratio and extend the permissible stroke a to the Contrac actuators.

Modify the servo motor¹⁾

Remove the brake rectifier and the tacho generator (if installed). Replace brake rectifier by resistor (470 Ohm).

Remove the phase shifting capacitor if it was installed in the old actuator. Modify the motor wiring acc. to scheme 2 and 3.

Remark:

For most actuators only the characteristic for 100% motor torque is available. They can not be reduced to 50% or 75% via the user interface.

Change the servo motor¹⁾

The servo motors M 2403 L/LT and M063 B can not be upgraded to a Contrac type. Replace the motors acc. to the table above.

Remark:

Set the actuator speed via graphical user interface to the original value if required.

Labeling of upgraded actuator

We strongly recommend to indicate the changes of motor wiring etc. at the data label and the motor terminal strip. Take the new motor designation from the previous tables.

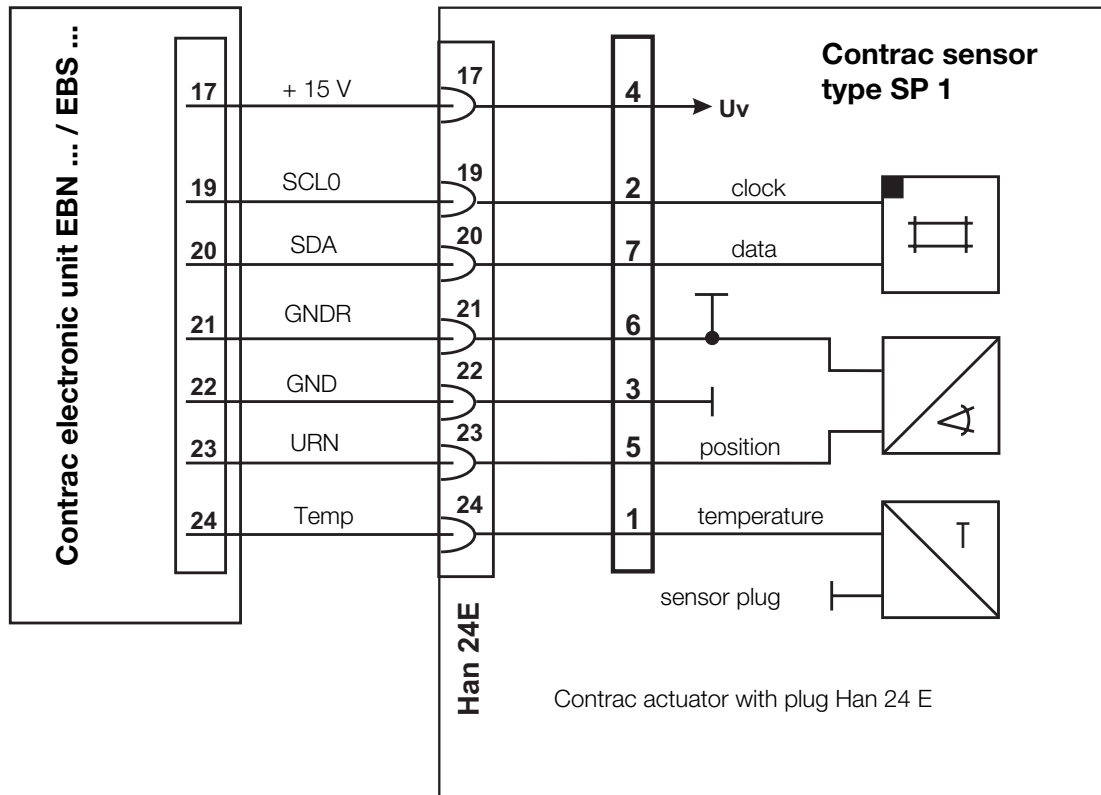
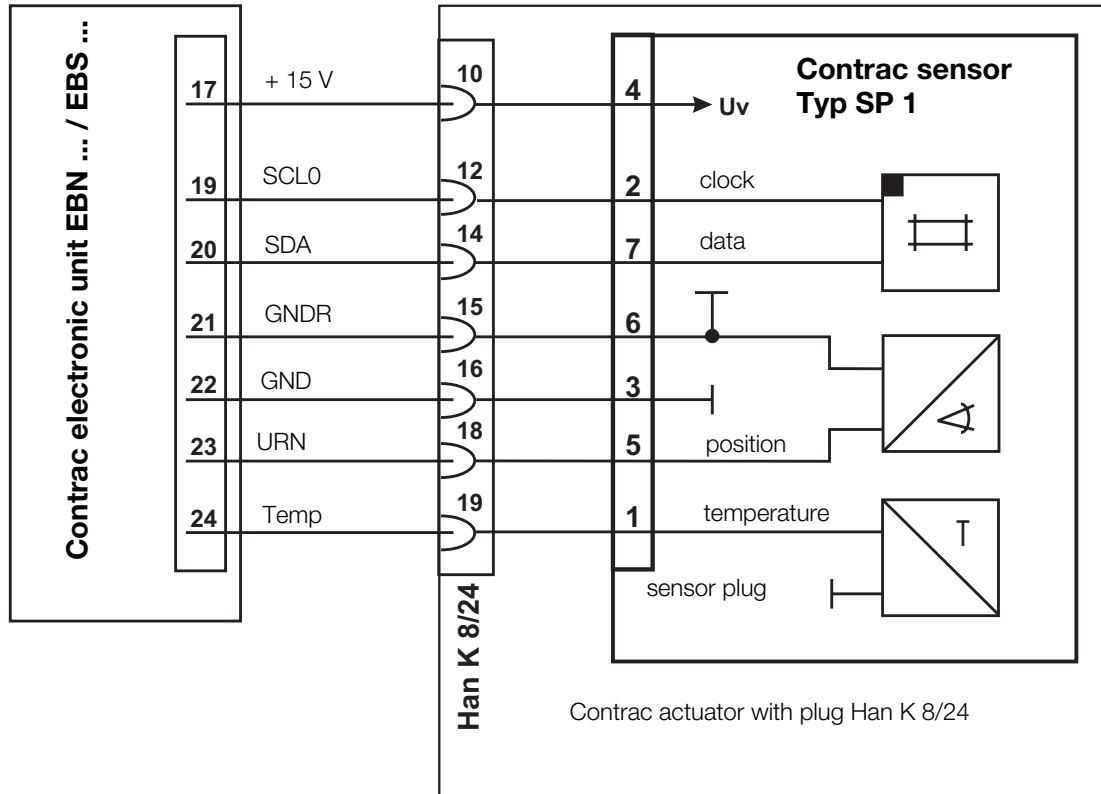
The 470 Ohm resistor mounting kit includes a labeling strip for the motor terminals. The connection chamber of the electronic units comprises 2 data labels for the electronic unit designation.

New power electronic unit¹⁾

The upgraded actuators require a Contrac power electronic unit. These units are available for field installation (protection class IP 66) for installation close to the actuator or for cubicle installation (protection class IP 20) for central installation close to the control room.

¹⁾ For details of ordering data see chapter „Ordering information“ at the end of this data sheet.

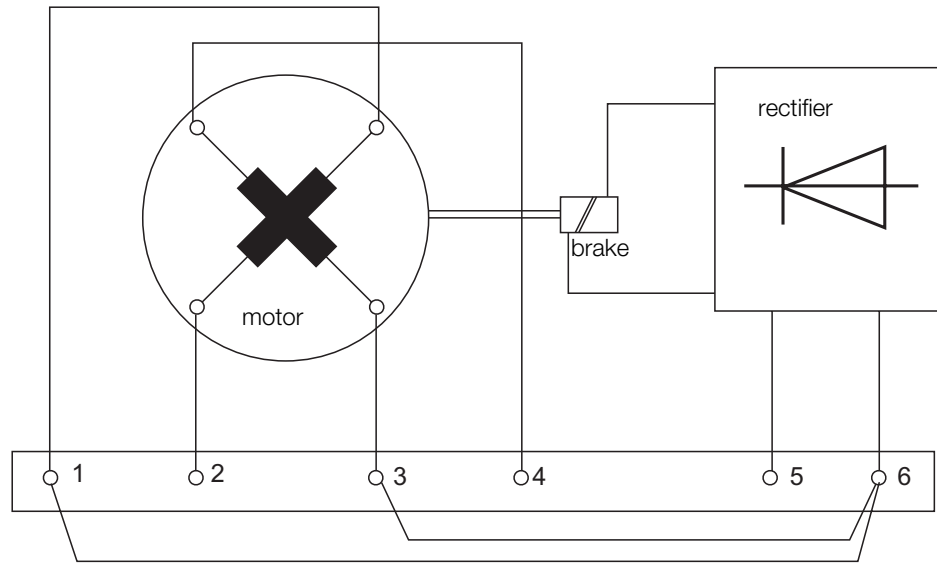
Wiring scheme of the Contrac sensors



(r00369x1)

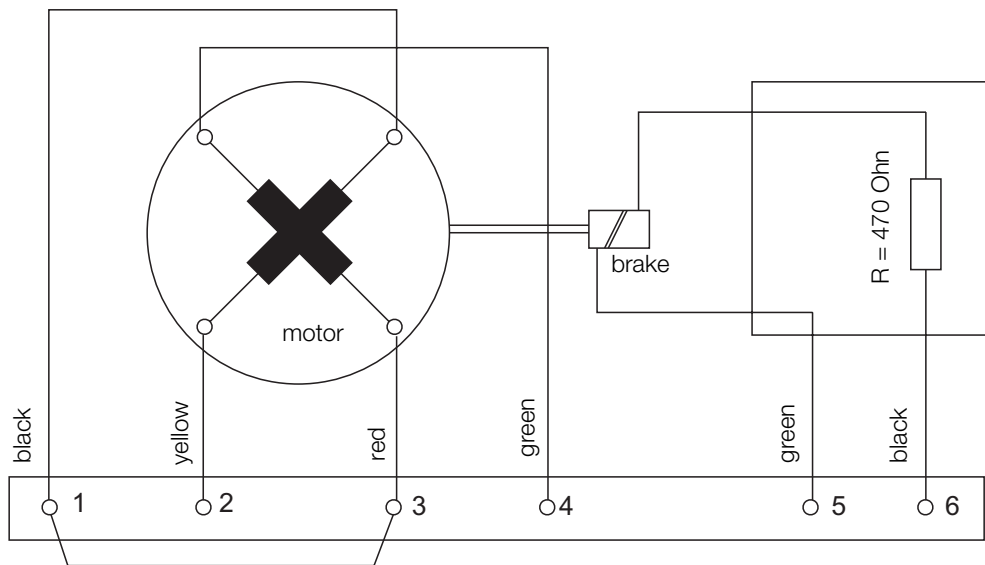
Fig. 1:

Wiring scheme for motor M 163 L M 1203 L



(r00370x1)

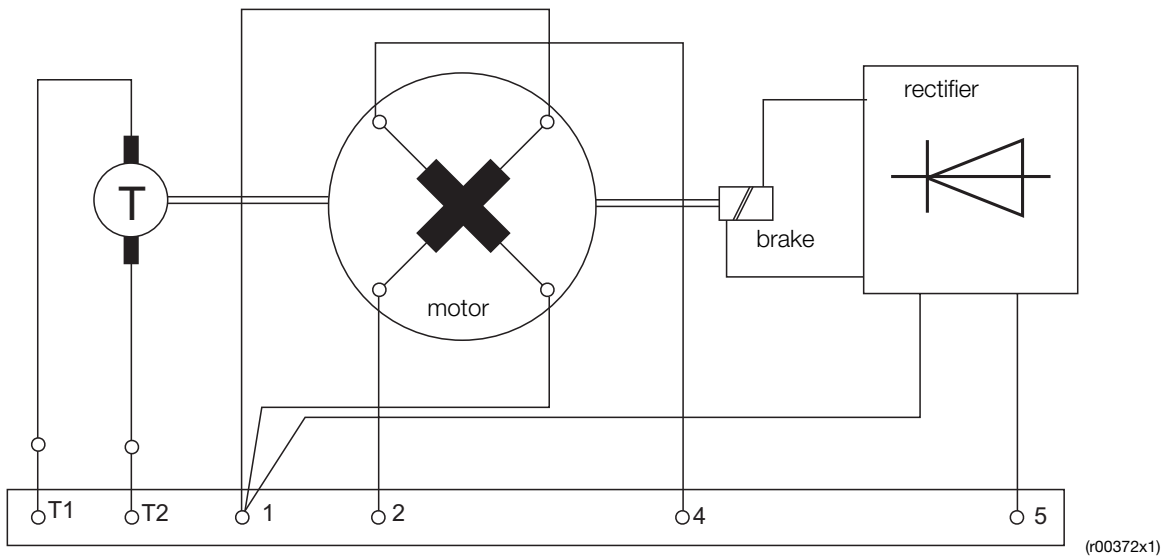
Modified wiring for Contrac MC 163 LR ... MC 1203 LR



(r00371x1)

Fig. 2:

Wiring scheme for motor M 163 LT ... M 1203 LT



Modified wiring for Contrac MC 163 LR ... MC 1203 LR

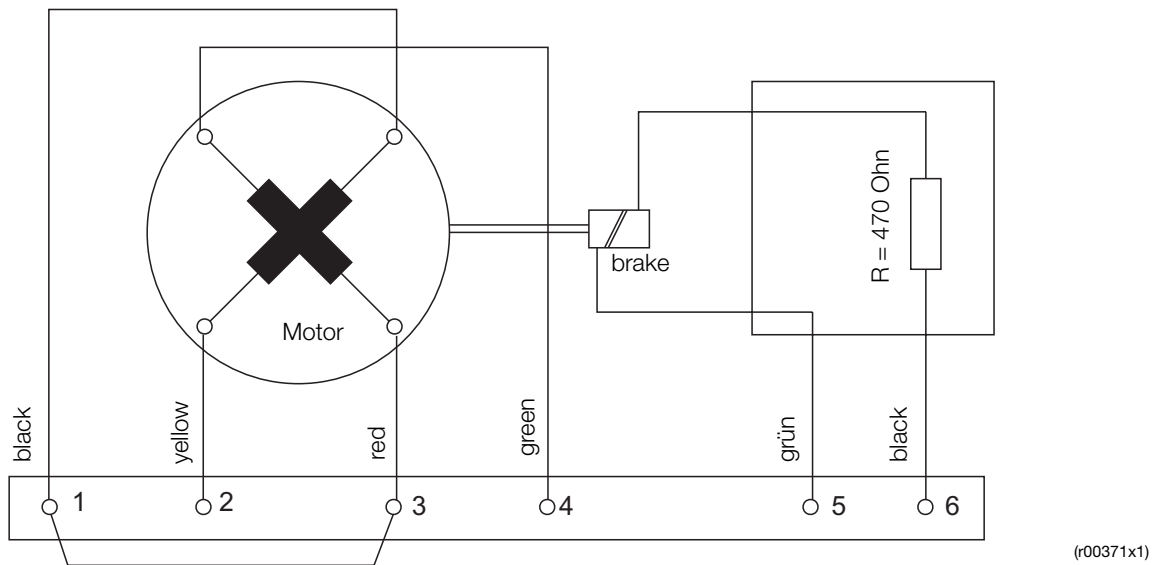
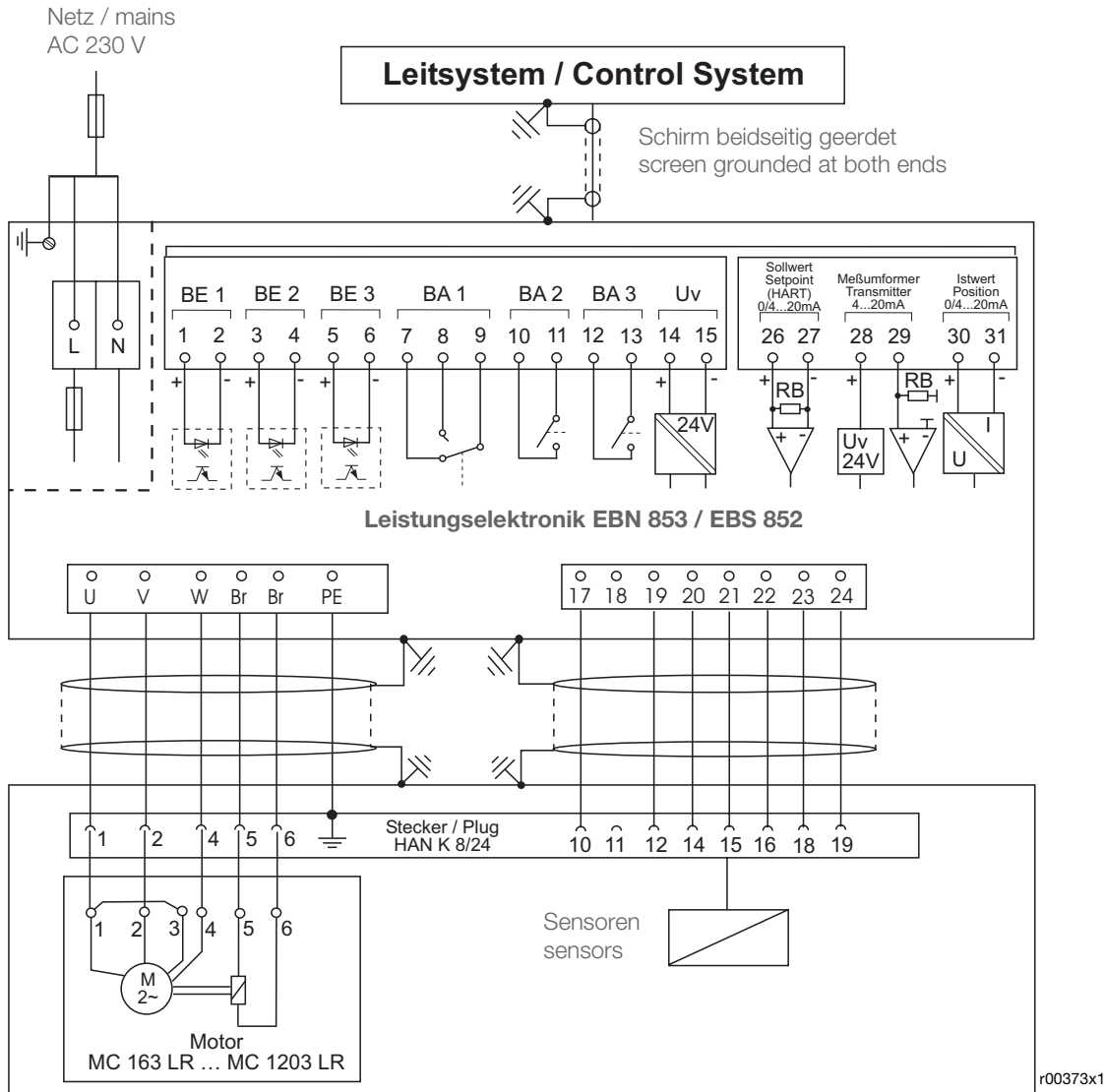


Fig. 3:
 Required wiring modification for servo motors with tachogenerator (M ... LT). Since the tachogenerator becomes obsolete the standard pinout can be used.

(The mounting kit „resistor“ includes a labeling strip for the motor terminals)

Example of wiring scheme for a Contrac actuator

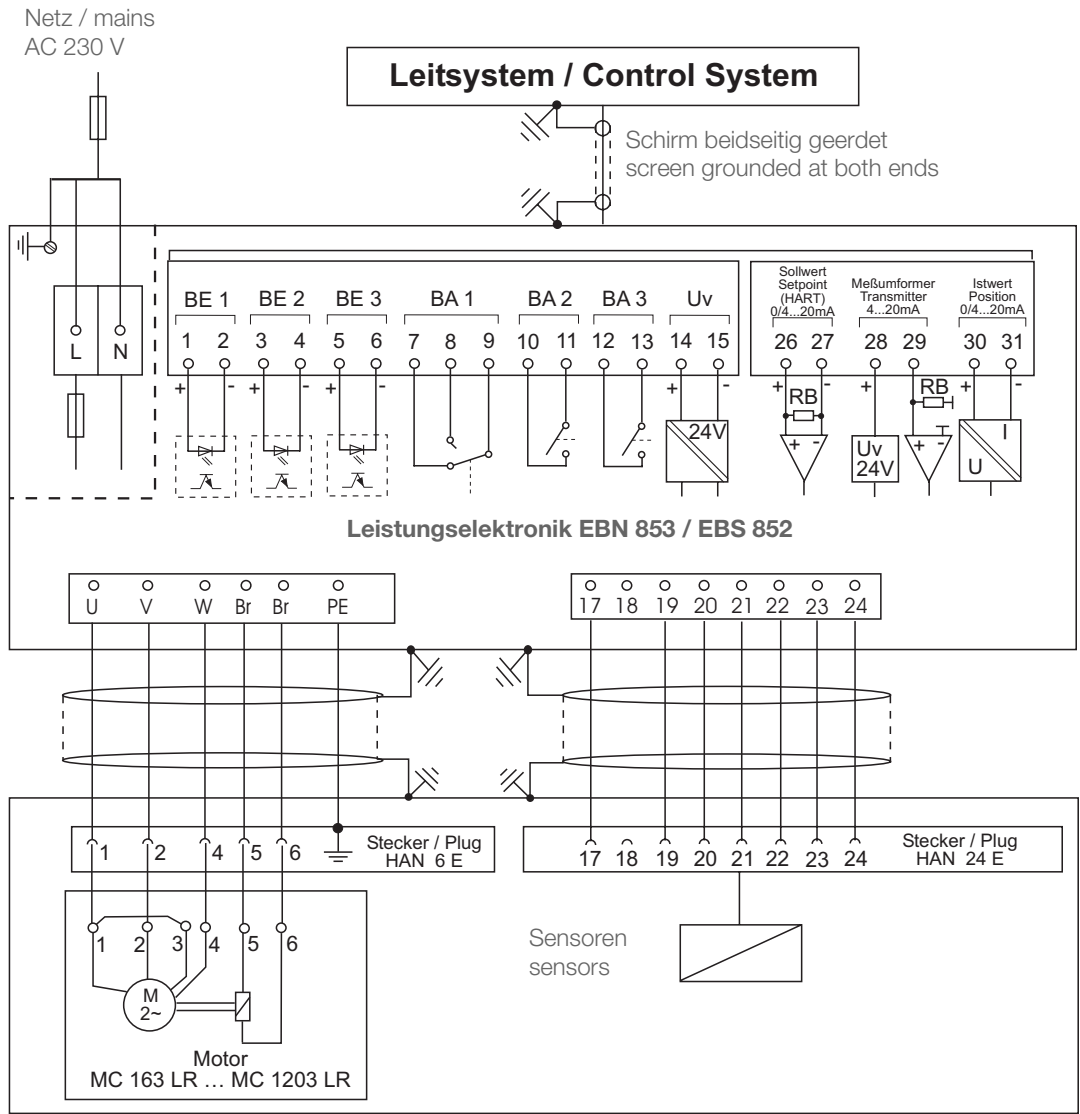
with plug HAN K 8/24 at the actuator



r00373x1

Example of wiring scheme for a Contrac actuator

with plug HAN 6E / HAN 24E at the actuator



Ordering Information for Electronic Unit for Field Installation EBN 853 (IP 66)

For Linear Actuator	Pos. Force	Rat. Speed	Stroke	Type bef. upgr.	Catalog No.	Code		
RSB 10-1,3/100	10 kN	1.3 mm/s	100 mm	RS 10-1,3	V68853 2061			
RSB 10-1,3/300	10 kN	1.3 mm/s	300 mm		V68853 9161			
RSB 10-3,0/100	10 kN	3.0 mm/s	100 mm	RS 10-3,0	V68853 2062			
RSB 10-3,0/300	10 kN	3.0 mm/s	300 mm		V68853 9162			
RSB 10-5,0/100	10 kN	5.0 mm/s	100 mm	RS 10-5,0	V68853 2063			
RSB 10-5,0/300	10 kN	5.0 mm/s	300 mm		V68853 9163			
RSB 20-0,6/100	20 kN	0.6 mm/s	100 mm	RS 20-0,6	V68853 2064			
RSB 20-0,6/300	20 kN	0.6 mm/s	300 mm		V68853 9164			
RSB 20-1,5/100	20 kN	1.5 mm/s	100 mm	RS 20-1,5	V68853 2065			
RSB 20-1,5/300	20 kN	1.5 mm/s	300 mm		V68853 9165			
RSB 20-2,5/100	20 kN	2.5 mm/s	100 mm	RS 20-2,5	V68853 2066			
RSB 20-2,5/300	20 kN	2.5 mm/s	300 mm		V68853 9166			
RSB 20-4,0/100	20 kN	4.0 mm/s	100 mm	RS 20-4,0	V68853 2067			
RSB 20-4,0/300	20 kN	4.0 mm/s	300 mm		V68853 9167			
RSB 50-1,5/120	50 kN	1.5 mm/s	120 mm	RS 50-1,5	V68853 3071			
RSB 50-1,5/300	50 kN	1.5 mm/s	300 mm		V68853 9171			
RSB 100-0,8/150	100 kN	0.8 mm/s	150 mm	RS 100-0,8	V68853 2181			
RSB 100-0,8/300	100 kN	0.8 mm/s	300 mm		V68853 9181			
RSB 100-1,5/150	100 kN	1.5 mm/s	150 mm	RS 100-1,5	V68853 2182			
RSB 100-1,5/300	100 kN	1.5 mm/s	300 mm		V68853 9182			
RSB 200-0,7/180	200 kN	0.7 mm/s	180 mm	RS 200-0,7	V68853 5491			
RSB 200-0,7/300	200 kN	0.7 mm/s	300 mm		V68853 9191			

Ordering Information for Electronic Unit for Field Installation EBN 853 (IP 66)

For Linear Actuator	Pos. Force	Rat. Speed	Stroke	Type before upgr	Catalog No.	Code		
RHC 12-10	120 Nm		9,0 °/s (10 s/90°)	RST 12-10 RH 12-10	V68853 0535			
RHC 25-10	250 Nm		9,0 °/s (10 s/90°)	RST 25-10 RH 25-10	V68853 0536			
RHC 25-30	250 Nm		3,0 °/s (30 s/90°)	RST 25-30 RH 25-30	V68853 0537			
RHC 40-10	400 Nm		9,0 °/s (10 s/90°)	RST 40-10 RH 40-10	V68853 0538			
RHC 60-10	600 Nm		9,0 °/s (10 s/90°)	RST 60-10 RH 60-10	V68853 0539			
RHC 60-30	600 Nm		3,0 °/s (30 s/90°)	RST 60-30 RH 60-30	V68853 0540			
RHC 60-60	600 Nm		1,5 °/s (60 s/90°)	RST 60-60 RH 60-60	V68853 0541			
RHC 125-10	1250 Nm		9,0 °/s (10 s/90°)	RST 125-10 RH 125-10	V68853 0542			
RHC 125-30	1250 Nm		3,0 °/s (30 s/90°)	RST 125-30 RH 125-30	V68853 0543			
RHC 125-60	1250 Nm		1,5 °/s (60 s/90°)	RST 125-60 RH 125-60	V68853 0544			
RHC 200-30	2000 Nm		3,0 °/s (30 s/90°)	RST 200-30 RH 200-30	V68853 0545			
RHC 250-60	2000 Nm		1,5 °/s (60 s/90°)	RST 250-60 RH 250-60	V68853 0546			
RHC 400-30	4000 Nm		3,0 °/s (30 s/90°)	RST 400-30 RH 400-30	V68853 0547			
RHC 400-60	4000 Nm		1,5 °/s (60 s/90°)	RST 400-60 RH 400-60	V68853 0548			
RHC 800-60	8000 Nm		1,5 °/s (60 s/90°)	RST 800-60 RH 800-60	V68853 0549			
RHB 250-10			9,0 °/S (10 s/90°)		V68853 0101			
RHB 250-30	250 Nm		3,0 °/S (30 s/90°)		V68853 0102			
RHB 500-10			9,0 °/S (10 s/90°)		V68853 0111			
RHB 500-30	500 Nm		1,5 °/S (60 s/90°)		V68853 0112			
RHB 800-15			6,0 °/S (15 s/90°)		V68853 0113			
RHB 800-35	800 Nm		2,5 °/S (35 s/90°)		V68853 0114			
RHB 1250-12			7,5 °/S (12 s/90°)		V68853 0121			
RHB 1250-35	1250 Nm		2,5 °/S (35 s/90°)		V68853 0122			
RHB 1250-60			12,5 °/S (60 s/90°)		V68853 0123			
RHB 2500-25			3,6 °/S (25 s/90°)		V68853 0124			
RHB 2500-45	2500 Nm		2,0 °/S (45 s/90°)		V68853 0125			
RHB 2500-70			1,3 °/S (70 s/90°)		V68853 0126			
RHB 4000-40			2,25 °/S (40 s/90°)		V68853 0131			
RHB 4000-70	4000 Nm		1,25 °/S (70 s/90°)		V68853 0132			
RHB 8000-80	8000 Nm		1,12 °/S (80 s/90°)		V68853 0133			

Ordering Information for Electronic Unit for Field Installation EBN 853 (IP 66)

	Code		
Special features of electronic unit (select at least one feature)			
Supply voltage	AC 230 V 1 PH	380	
	AC 115 V 1 Ph	381	
Frequency	50 Hz	382	
	60 Hz	383	
Digital communication	RS 232	384	
	RS 232 + HART	385	
	Profibus DP	386	
Electrical connection to actuator	w ithout cable (plug at actuator)	335	
Standard settings for electronic unit (see techn. data)		390	
Customer specific settings for electronic unit (see data sheet 10/68-2.40)		391	
Additional features of electronic unit (selection not necessarily required)			
Electrical connection thread	Set NPT adapter (joint metric / NPT thread)	680	
	Set PG adapter (joint metric / PG thread)	681	
Anti-condensation heater in actuator "ON"		359	
Identification on data label	(alphanumeric; max. 32 characters)	295	
F. No. of associated actuator on data label of electronic unit		297	
Factory certificate 2.1 acc. to EN 10204		291	
Certificate B acc. to EN 10202		292	
Manual (give total quantity)			
German (no remark for 1 copy)		Z2D	
English (code no. alw ays required)		Z2E	

Ordering Information for Electronic Unit for Cubicle Installation EBS 852 (IP 20)

For Linear Actuator	Pos. Force	Rat. Speed	Stroke	Type before upgr	Catalog No.	Code		
RSB 10-1,3/100	10 kN	1.3 mm/s	100 mm		V68852 2061			
RSB 10-1,3/300	10 kN	1.3 mm/s	300 mm		V68852 9161			
RSB 10-3,0/100	10 kN	3.0 mm/s	100 mm		V68852 2062			
RSB 10-3,0/300	10 kN	3.0 mm/s	300 mm		V68852 9162			
RSB 10-5,0/100	10 kN	5.0 mm/s	100 mm		V68852 2063			
RSB 10-5,0/300	10 kN	5.0 mm/s	300 mm		V68852 9163			
RSB 20-0,6/100	20 kN	0.6 mm/s	100 mm		V68852 2064			
RSB 20-0,6/300	20 kN	0.6 mm/s	300 mm		V68852 9164			
RSB 20-1,5/100	20 kN	1.5 mm/s	100 mm		V68852 2065			
RSB 20-1,5/300	20 kN	1.5 mm/s	300 mm		V68852 9165			
RSB 20-2,5/100	20 kN	2.5 mm/s	100 mm		V68852 2066			
RSB 20-2,5/300	20 kN	2.5 mm/s	300 mm		V68852 9166			
RSB 20-4,0/100	20 kN	4.0 mm/s	100 mm		V68852 2067			
RSB 20-4,0/300	20 kN	4.0 mm/s	300 mm		V68852 9167			
RSB 50-1,5/120	50 kN	1.5 mm/s	120 mm		V68852 3071			
RSB 50-1,5/300	50 kN	1.5 mm/s	300 mm		V68852 9171			
RSB 100-0,8/150	100 kN	0.8 mm/s	150 mm		V68852 2181			
RSB 100-0,8/300	100 kN	0.8 mm/s	300 mm		V68852 9181			
RSB 100-1,5/150	100 kN	1.5 mm/s	150 mm		V68852 2182			
RSB 100-1,5/300	100 kN	1.5 mm/s	300 mm		V68852 9182			
RSB 200-0,7/180	200 kN	0.7 mm/s	180 mm		V68852 5491			
RSB 200-0,7/300	200 kN	0.7 mm/s	300 mm		V68852 9191			

Ordering Information for Electronic Unit for Field Installation EBS 852 (IP 20)

For Part-Turn Actuator	Pos. Torque	Rat. Speed	Type before upgr	Catalog No.	Code		
RHC 12-10	120 Nm	9.0 °/s (10 s/90°)	RST 12-10 RH 12-10	V68852 0535			
RHC 25-10	250 Nm	9.0 °/s (10 s/90°)	RST 25-10 RH 25-10	V68852 0536			
RHC 25-30	250 Nm	3.0 °/s (30 s/90°)	RST 25-30 RH 25-30	V68852 0537			
RHC 40-10	400 Nm	9.0 °/s (10 s/90°)	RST 40-10 RH 40-10	V68852 0538			
RHC 60-10	600 Nm	9.0 °/s (10 s/90°)	RST 60-10 RH 60-10	V68852 0539			
RHC 60-30	600 Nm	3.0 °/s (30 s/90°)	RST 60-30 RH 60-30	V68852 0540			
RHC 60-60	600 Nm	1.5 °/s (60 s/90°)	RST 60-60 RH 60-60	V68852 0541			
RHC 125-10	1250 Nm	9.0 °/s (10 s/90°)	RST 125-10 RH 125-10	V68852 0542			
RHC 125-30	1250 Nm	3.0 °/s (30 s/90°)	RST 125-30 RH 125-30	V68852 0543			
RHC 125-60	1250 Nm	1.5 °/s (60 s/90°)	RST 125-60 RH 125-60	V68852 0544			
RHC 200-30	2000 Nm	3.0 °/s (30 s/90°)	RST 200-30 RH 200-30	V68852 0545			
RHC 250-60	2000 Nm	1.5 °/s (60 s/90°)	RST 250-60 RH 250-60	V68852 0546			
RHC 400-30	4000 Nm	3.0 °/s (30 s/90°)	RST 400-30 RH 400-30	V68852 0547			
RHC 400-60	4000 Nm	1.5 °/s (60 s/90°)	RST 400-60 RH 400-60	V68852 0548			
RHC 800-60	8000 Nm	1.5 °/s (60 s/90°)	RST 800-60 RH 800-60	V68852 0549			
RHB 250-10	250 Nm	9.0 °/S (10 s/90°)		V68852 0101			
RHB 250-30		3.0 °/S (30 s/90°)		V68852 0102			
RHB 500-10	500 Nm	9.0 °/S (10 s/90°)		V68852 0111			
RHB 500-30		1.5 °/S (60 s/90°)		V68852 0112			
RHB 800-15	800 Nm	6.0 °/S (15 s/90°)		V68852 0113			
RHB 800-35		2.5 °/S (35 s/90°)		V68852 0114			
RHB 1250-12	1250 Nm	7.5 °/S (12 s/90°)		V68852 0121			
RHB 1250-35		2.5 °/S (35 s/90°)		V68852 0122			
RHB 1250-60		12.5 °/S (60 s/90°)		V68852 0123			
RHB 2500-25	2500 Nm	3.6 °/S (25 s/90°)		V68852 0124			
RHB 2500-45		2.0 °/S (45 s/90°)		V68852 0125			
RHB 2500-70		1.3 °/S (70 s/90°)		V68852 0126			
RHB 4000-40	4000 Nm	2.25 °/S (40 s/90°)		V68852 0131			
RHB 4000-70		1.25 °/S (70 s/90°)		V68852 0132			
RHB 8000-80	8000 Nm	1.12 °/S (80 s/90°)		V68852 0133			

Ordering Information for Electronic Unit for Field Installation EBS 852 (IP 20)

	Code		
Special features of electronic unit (select at least one feature)			
Supply voltage	AC 230 V 1 Ph	380	
	AC 115 V 1 Ph	381	
Frequency	50 Hz	382	
	60 Hz	383	
Digital communication	RS 232	384	
	RS 232 + HART	385	
Standard settings for electronic unit (see techn. data)		390	
Customer specific settings for electronic unit (see data sheet 10/68-2.40)		391	
Additional features of electronic unit (selection not necessarily required)			
Anti-condensation heater in actuator "ON"		359	
Identification on data label (alphanumeric; max. 32 characters)		295	
F. No. of associated actuator on data label of electronic unit		297	
Factory certificate 2.1 acc. to EN 10204		291	
Certificate B acc. to EN 10202		292	
Manual (give total quantity)			
German (no remark for 1 copy)		Z2D	
English (code no. always required)		Z2E	

Ordering Information for Accessories

	Catalog No.			
Position Sensor Typ SP 1	8689123			
Assembly kit "protective resistor"	764725			
Motor MCS 90 BA with special flange; shaft like M 2403 Replacement for M 2403 L/LT	9101215			
Motor MC 163 LR with pinion for RHB 250-30 Replacement for M 063 B	789 473			
Motor MC 163 LR with pinion for RSB 10-1,3 Replacement for M 063 B	789 485			
Gearings for position transmitter at linear actuators				
for RS 10-... stroke ... 100 mm	774 217			
for RS 10-... stroke ... 300 mm	774 218			
for RS 20-... stroke ... 100 mm	774 217			
for RS 20-... stroke ... 300 mm	774 218			
for RS 50-... stroke ... 120 mm	774 221			
for RS 50-... stroke ... 300 mm	774 222			
for RS 100-... stroke ... 150 mm	767 662			
for RS 100-... stroke ... 300 mm	786 302			
for RS 200-... stroke ... 180 mm	786 460			
for RS 200-... stroke ... 300 mm	786 461			

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