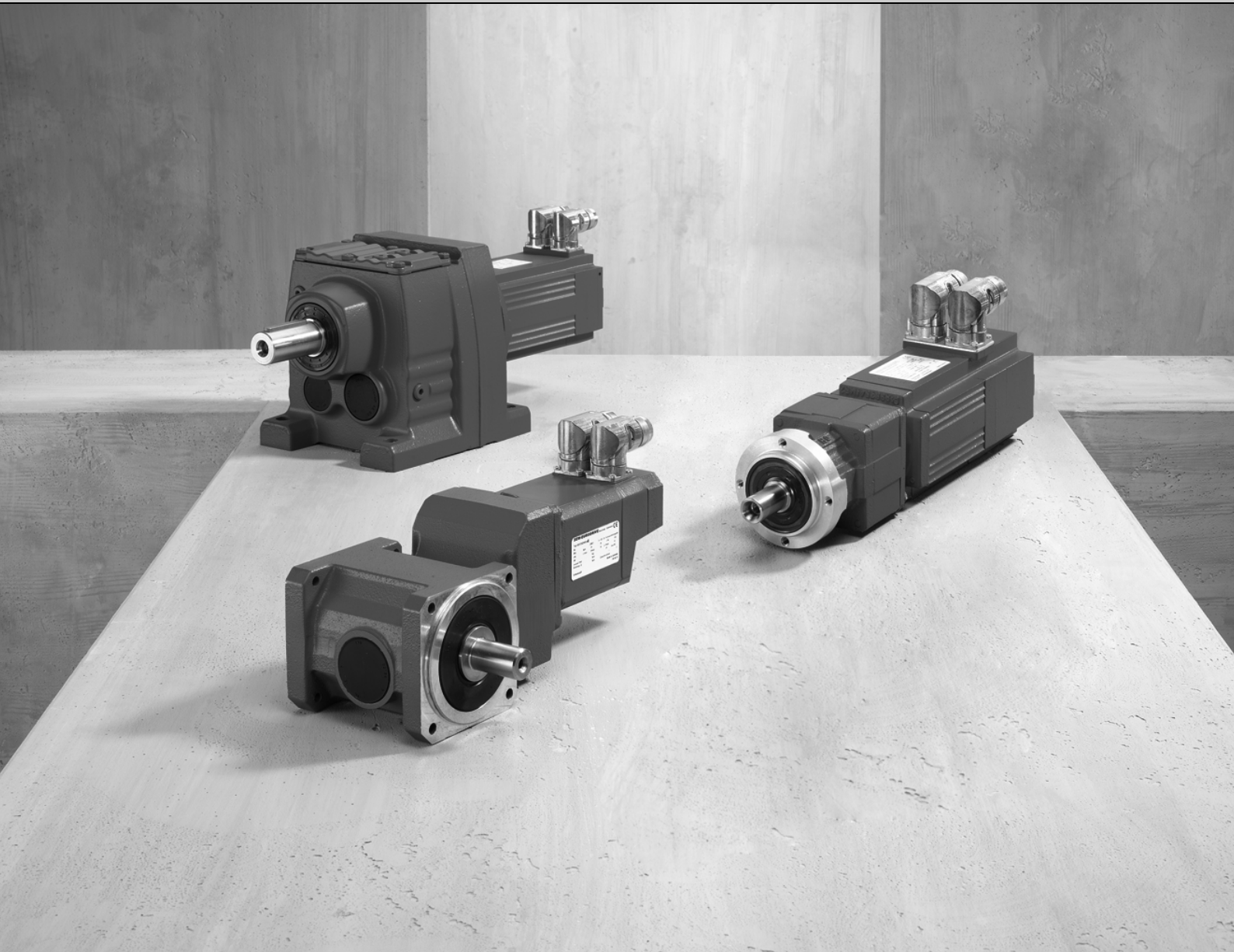




## Addendum to the Catalog



### **Synchronous Servo Gearmotors** CMP40 – CMP100 Servomotors with W10, W20 and W30 Gear Units





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## **1 Introduction**

### **1.1 Contents of this publication**

This addendum to the "Synchronous Servo Gearmotors" price catalog / catalog includes the following new information:

- Motor and gear unit combination of CMP motors with SPIROPLAN® gear units W10, W20 and W30.

For any further information regarding synchronous servo gearmotors, refer to the "Synchronous Servo Gearmotors" price catalog / catalog.

### **1.2 Copyright**

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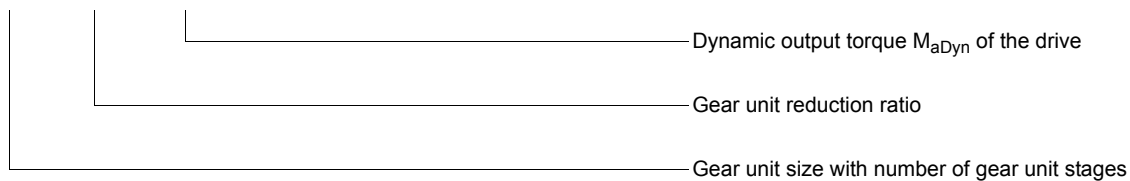
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## 2 Important Information on Selection Tables and Dimension Drawings

### 2.1 Information on the selection tables

$M_{aDyn}$ in Nm	i	CMP							
		50S	50M	50L	63S	63M	63L	71S	71M
PSF321	3.00		31	46	33	64	90	57	91
	4.00	21	41	61	44	85	120	76	122
	5.00	26	51	76	55	106	150	95	152
	7.00	36	71	107	77	148	>168	133	>168
	10.00	51	102	>121	110				



The dark-gray fields contain preferred combinations  
 Light-gray fields: Consult SEW-EURODRIVE.  
 White fields mean: Combination not possible

### INFORMATION



In fields marked with ">...",  $M_{aDyn}$  must not exceed the maximum permitted torque  $M_{apk}$  in short-term duty because the motor may overload the gear unit. The motor current  $I_{max}$  must be limited at startup.

m in kg		CMP							
	s	50S	50M	50L	63S	63M	63L	71S	71M
PSF321		6.7	7.6	8.5	8.0	9.5	11	12	13
PSF322		8.2	9.1	10.0	9.5	11	12	14	15

**m** | Mass of the drive  
**s** | Number of gear unit stages

CMP..	i	$n_{epk}$ rpm	$\eta$ %	M1;M3;M5-6			M2			M4			$\phi$ /R /M		
				$a_0$	$a_1$	$a_2$	$a_0$	$a_1$	$a_2$	$a_0$	$a_1$	$a_2$	.	.	.
PSF321	3.00	7000	99	205	-0.222	0	234	-0.327	0	288	-0.595	0	6	3	1
	4.00	7000	99	276	-0.316	0	312	-0.455	0	387	-0.833	0	6	3	1
	5.00	7000	99	290	-0.355	0	328	-0.501	0	414	-0.930	0	6	3	1
	7.00	7000	99	296	-0.418	0	335	-0.581	0	422	-1.036	0	6	3	1
	10.00	7000	99	269	-0.477	0	302	-0.617	0	374	-1.016	0	6	3	1

**i** | Gear unit reduction ratio  
 **$n_{epk}$**  | Maximum permitted input speed for short-time duty  
 **$\eta$**  | Efficiency of the gear unit (at  $M_{apk}$ ,  $n_e=1500$  rpm, mounting position M1, S1 duty cycle)  
 **$\phi$**  | Rotational clearance  
 **$a_0, a_1, a_2$**  | Gear unit constants as regards the rise in temperature in the gear unit



CMP. $n_e = 1500$	i	$M_{amax}$ Nm	$M_{apk}$ Nm	$M_{aNotaus}$ Nm	$n_{ak}$ rpm	$J_{GA} 10^{-4}$ kgm <sup>2</sup>	$c_T$ PSF Nm/'	$F_{Ramax}$ PSF N	$F_{Rapk}$ PSF N
PSF321	3.00	85	125	188	2333	0.69	11	4380	5280
	4.00	110	170	255	1750	0.35	12	4770	4420
	5.00	110	169	250	1400	0.22	12	5100	4450
	7.00	110	168	250	1000	0.12	10	5480	4470
	10.00	110	121	182	700	0.059	7.6	5480	5330

i	Gear unit reduction ratio
$M_{amax}$	Maximum permitted output torque for continuous duty
$M_{apk}$	Maximum permitted output torque for short-time duty
$M_{aNotaus}$	Maximum permitted output emergency stop torque, max. 1000 emergency stops
$n_{ak}$	Breakpoint speed (output)
$J_{GA}$	Mass moment of inertia of the gear unit with reference to the input shaft
$c_T$	Torsional rigidity of the gear unit
$F_{Ramax}$	Maximum permitted overhung load at the output shaft for continuous duty, load application point is the center of the shaft end
$F_{Rapk}$	Maximum permitted overhung load at the output shaft for short-time duty, load application point is the center of the shaft end

## 2.2 Dimension sheet information

### 2.2.1 Scope of delivery



= Standard parts supplied by SEW-EURODRIVE.



= Standard parts not supplied by SEW-EURODRIVE.

### 2.2.2 Tolerances

#### Shaft heights

The following tolerances apply to the indicated dimensions:

$$\varnothing \leq 250 \text{ mm} \quad \rightarrow -0.5 \text{ mm}$$

$$\varnothing > 250 \text{ mm} \quad \rightarrow -1 \text{ mm}$$

**Foot-mounted gear units:** Check the mounted motor because it might project below the mounting surface.

#### Shaft ends

Diameter tolerance:

$$\varnothing \leq 50 \text{ mm} \quad \rightarrow \text{ISO k6}$$

$$\varnothing > 50 \text{ mm} \quad \rightarrow \text{ISO m6}$$

Center bores according to DIN 332, shape DR:

$$\varnothing = 7 - 10 \text{ mm} \quad \rightarrow \text{M3}$$

$$\varnothing > 10 - 13 \text{ mm} \quad \rightarrow \text{M4}$$

$$\varnothing > 13 - 16 \text{ mm} \quad \rightarrow \text{M5}$$

$$\varnothing > 16 - 21 \text{ mm} \quad \rightarrow \text{M6}$$

$$\varnothing > 21 - 24 \text{ mm} \quad \rightarrow \text{M8}$$

$$\varnothing > 24 - 30 \text{ mm} \quad \rightarrow \text{M10}$$

$$\varnothing > 30 - 38 \text{ mm} \quad \rightarrow \text{M12}$$

$$\varnothing > 38 - 50 \text{ mm} \quad \rightarrow \text{M16}$$

$$\varnothing > 50 - 85 \text{ mm} \quad \rightarrow \text{M20}$$

$$\varnothing > 85 - 130 \text{ mm} \quad \rightarrow \text{M24}$$

$$\varnothing > 130 \text{ mm} \quad \rightarrow \text{M30}$$

Keys: according to DIN 6885 (domed type)



*Hollow shafts*

Diameter tolerance:

∅ → ISO H7 measured with plug gauge

Keys: according to DIN 6885 (domed type)

Exception: Key for WA37 with shaft ∅ 25 mm according to DIN 6885-3 (low form)

*Multiple-spline shafts*

D<sub>m</sub> = Measuring roller diameter

M<sub>e</sub> = Check size

*Flanges*

Centering shoulder tolerance:

∅ ≤ 230 mm (flange sizes A120 – A300) → ISO j6

∅ > 230 mm (flange sizes A350 – A660) → ISO h6

Up to three different flange dimensions are available for each size of helical gear unit, SPIROPLAN® gear unit, AC (brake) motor and explosion-proof AC (brake) motor. The respective dimension drawings will show the flanges approved for each size.

**2.2.3 Eyebolts, lifting eyes**

R07 – R27 helical gear units and SPIROPLAN® gearmotors W..10 –W..30 are delivered without special transportation fixtures. All other gear units and motors are equipped with cast-on suspension eye lugs, screw-on suspension eye lugs or screw-on lifting eyebolts.

Gear unit/motor type	Screw-on		Cast-on eyebolts
	eyebolts	lifting eyes	
R..37 – R..57	-	•	-
R..67 – R..167	•	-	-
RX57 – RX67	-	•	-
RX77 – RX107	•	-	-
F..27 – F..157	-	-	•
K..37 – K..157	-	-	•
K..167 – K..187	•	-	-
W..37, W..47	-	•	-
S..37 – S..47	-	•	-
S..57 – S..97	-	-	•
BS.F502 – 802	-	•	-
PS.F621 – 921	-	•	-
PS.F622 – 922	-	•	-

**2.2.4 Breather valves**

The gear unit dimension drawings always show the screw plugs. The corresponding screw plug is replaced by an activated breather valve at the factory depending on the ordered mounting position M1 – M6. The result may be slightly altered contour dimensions.

**2.2.5 Shrink disk connection**

Hollow shaft gear unit with shrink disk connection: If required, please request a detailed data sheet on shrink disks, data sheet no. 33 753 ..95.



#### 2.2.6 Splined hollow shaft

FV.. hollow shaft gear unit sizes 27 to 107, and KV.. sizes 37 to 107 are supplied with splining according to DIN 5480.

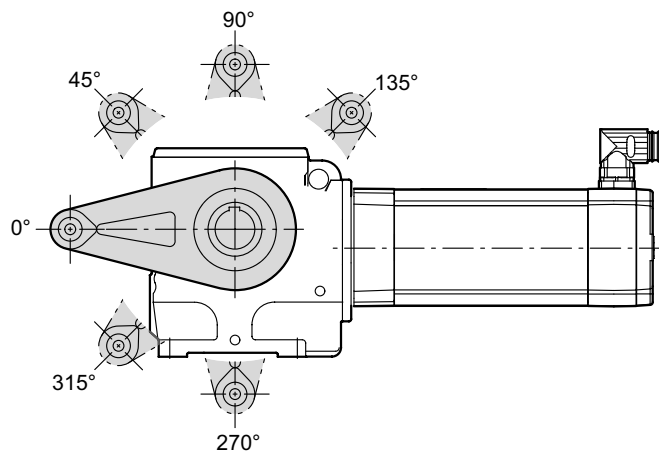
#### 2.2.7 Rubber buffer for FA/FH/FV/FT

Preload rubber buffer by the indicated value mL. The characteristic curve of spring for the rubber buffers is available at SEW-EURODRIVE on request.

#### 2.2.8 Torque arm position

The following illustration shows the possible torque arm positions for helical-worm, SPIROPLAN® and BS.F gear units as well as the respective angles:

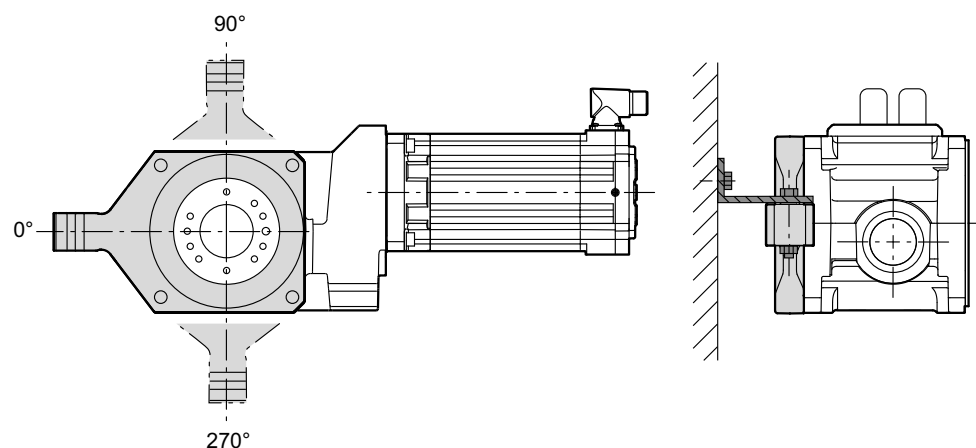
Position of the torque arm for S and W gear units:



5534885771

For information about torque arms of helical-worm gear units, refer to the dimension sheets. For information about torque arms of SPIROPLAN® gearmotors, refer to the "Synchronous Servo Gearmotors" catalog.

Position of the torque arm for BS.F gear units:



4314419339

For specifications regarding the torque arms for helical-bevel gearmotors, refer to the "Synchronous Servo Gearmotors" catalog





### 2.2.9 Tolerances and chamfers for flange block gear units

Internal centering → ISO H7  
External centering → ISO h7

For further information, refer to the "Synchronous Servo Gearmotors" catalog.

### 2.2.10 Front and foot-end mounting of BS.F..B gear units

For further information, refer to the "Synchronous Servo Gearmotors" catalog

## 2.3 Gearmotor dimensions

### 2.3.1 Motor options

The motor dimensions may change when installing motor options. Refer to the dimension drawings of the motor options.

### 2.3.2 Special designs

The terminal box dimensions in special designs might vary from the standard.

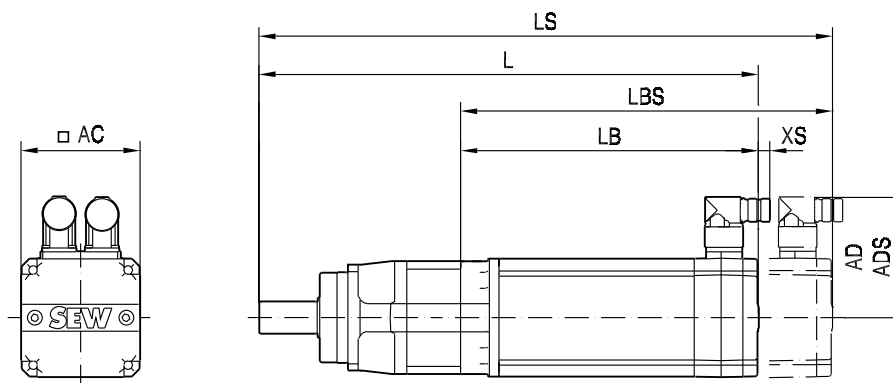
### 2.3.3 EN 50347

European standard EN 50347 became effective in August 2001. This standard adopts the dimension designations for three-phase AC motors for sizes 56 to 315M and flange sizes 65 to 740 from the IEC 72-1 standard.

The new dimension designations given in EN 50347 / IEC 72-1 are used for the dimensions in question in the dimension tables of the dimensions sheets.

### 2.3.4 Dimension designations of gearmotors

The dimensions of the gearmotors are described below:



5534894603

L	Total length of gearmotor	AC	Diameter of motor
LS	Total length of gearmotor including brake	AD	Center of motor shaft to top part of terminal box
LB	Length of motor	ADS	Center of brakemotor shaft to top part of terminal box
LBS	Length of brakemotor	XS	Plug connector protruding over the motor housing



#### INFORMATION

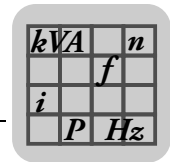
For motors with other feedback systems than resolvers, possible additional lengths must be considered.

---

### 2.4 *CMPZ motor dimensions*

CMPZ motors differ from CMP motors by their additional rotor mass. This additional rotor mass is the reason why CMPZ motors are longer than the corresponding CMP motors.

For additional CMPZ motor lengths, refer to the tables in chapter "Technical data of CMPZ motors" (page 23).



### 3 W..CMP

#### 3.1 W 10

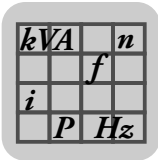
M <sub>aDyn</sub> [Nm]	i	CMP
		40M
W10	6.57	>12
	8.20	>12
	10.25	>13
	14.33	>22
	16.50	>20
	19.50	>25
	24.50	>25
	27.50	>24
	32.50	>25
	39.00	>25
	48.00	>25
	60.00	>25
	75.00	>25

→ (page 5)

m [kg]	s	CMP
		40M
W10		3.8
WF: + 0.2 kg / WA: + 0.0 kg / WAF: + 0.2 kg		

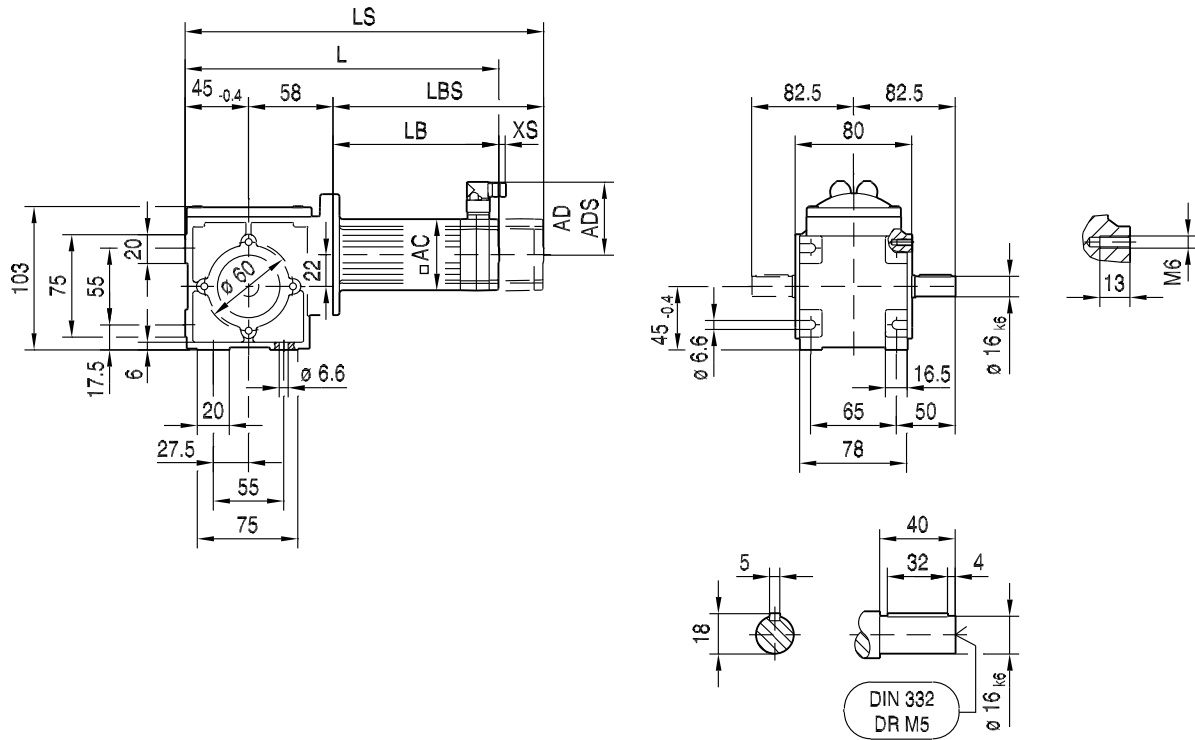
CMP.	i	n <sub>epk</sub> [rpm]	η [%]	W [Nm/']	WF [Nm/']	C <sub>TG</sub>	
						WA [Nm/']	WAF [Nm/']
W10	6.57	4500	91	-	-	-	-
	8.20	4500	88	-	-	-	-
	10.25	4500	86	-	-	-	-
	14.33	4500	80	-	-	-	-
	16.50	4500	78	-	-	-	-
	19.50	4500	74	-	-	-	-
	24.50	4500	68	-	-	-	-
	27.50	4500	65	-	-	-	-
	32.50	4500	62	-	-	-	-
	39.00	4500	57	-	-	-	-
	48.00	4500	51	-	-	-	-
	60.00	4500	45	-	-	-	-
	75.00	4500	41	-	-	-	-

CMP.	n <sub>e</sub> = 1400	i	M <sub>amax</sub> [Nm]	M <sub>apk</sub> [Nm]	M <sub>aNotaus</sub> [Nm]	n <sub>ak</sub> [rpm]	J <sub>G</sub> 10 <sup>-4</sup> [kgm <sup>2</sup> ]	F <sub>Ramax</sub>				F <sub>Rapk</sub>			
								W [N]	WF [N]	WA [N]	WAF [N]	W [N]	WF [N]	WA [N]	WAF [N]
W10	6.57	10	12	15	684	0.058	1740	1370	1800	1800	1800	1800	1800	1800	
	8.20	10	12	15	548	0.041	1850	1460	1800	1800	1800	1800	1800	1800	
	10.25	10	13	15	439	0.030	1990	1570	1800	1800	1800	1800	1800	1800	
	14.33	18	22	25	314	0.020	1980	1670	1800	1800	1800	1800	1800	1800	
	16.50	16	20	24	272	0.019	1990	1780	1800	1800	1800	1800	1800	1800	
	19.50	20	25	25	230	0.017	1960	1800	1800	1800	1800	1800	1800	1800	
	24.50	20	25	25	183	0.015	1960	1800	1800	1800	1800	1800	1800	1800	
	27.50	20	24	25	163	0.016	1970	1800	1800	1800	1800	1800	1800	1800	
	32.50	20	25	25	138	0.012	1960	1800	1800	1800	1800	1800	1800	1800	
	39.00	20	25	25	115	0.011	1960	1800	1800	1800	1800	1800	1800	1800	
	48.00	20	25	25	93	0.014	1960	1800	1800	1800	1800	1800	1800	1800	
	60.00	20	25	25	75	0.015	1960	1800	1800	1800	1800	1800	1800	1800	
	75.00	20	25	25	60	0.016	1960	1800	1800	1800	1800	1800	1800	1800	



W10..

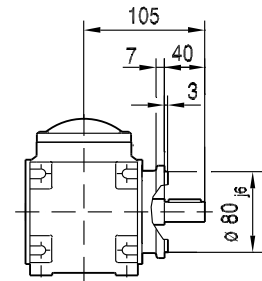
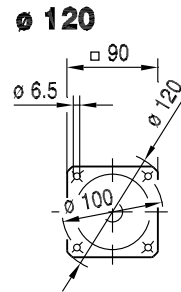
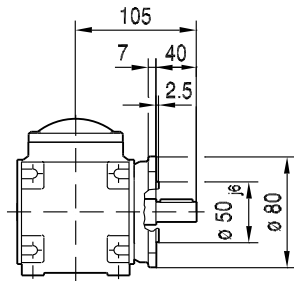
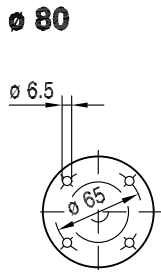
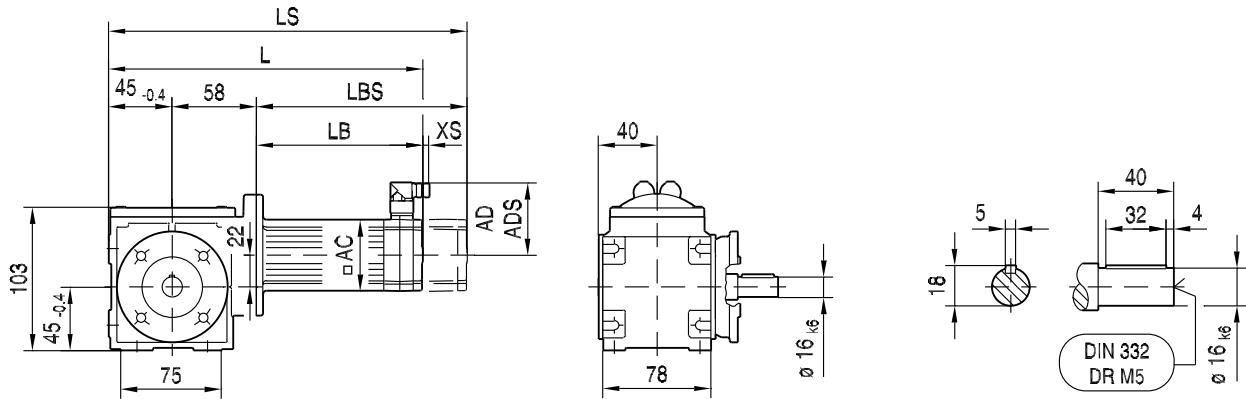
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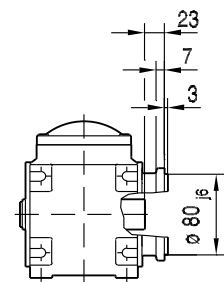
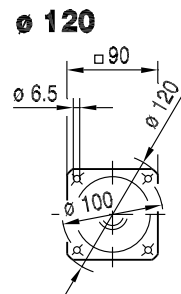
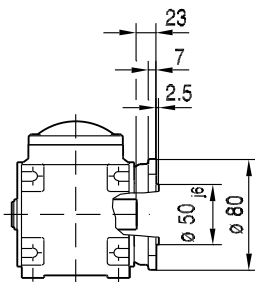
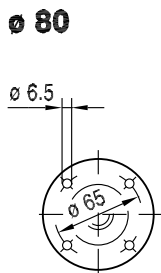
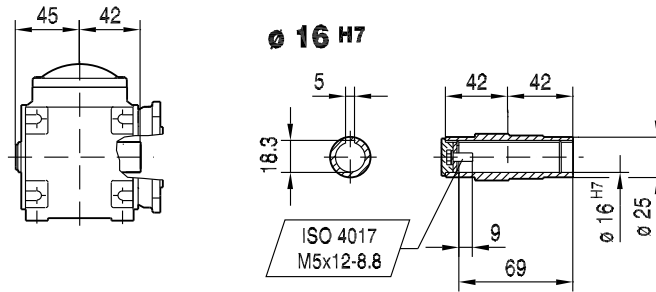
(→ 5)	<b>CMP40M</b>							
AC	57							
AD	78							
ADS	78							
L	239							
LS	269							
LB	136							
LBS	166							
XS	19							

**WF10..**

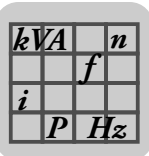
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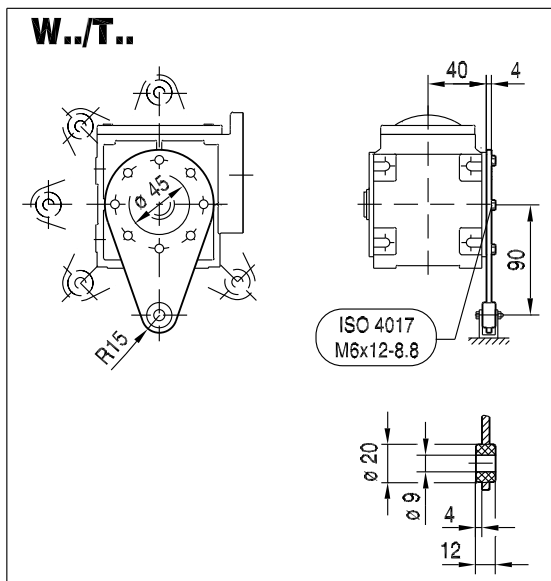
**WAF10..**



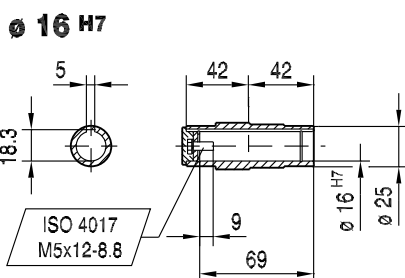
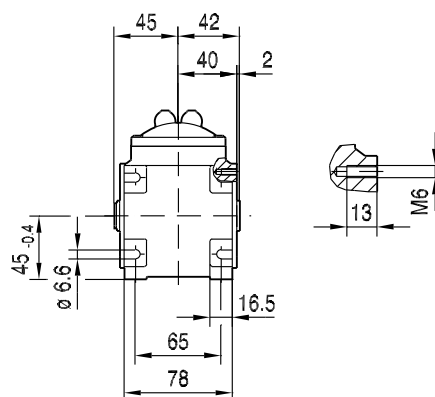
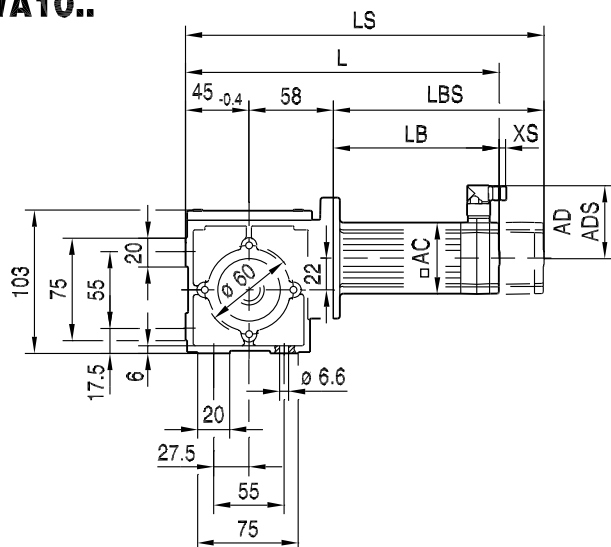
(→ 5)	CMP40M								
AC	57								
AD	78								
ADS	78								
L	239								
LS	269								
LB	136								
LBS	166								
XS	19								



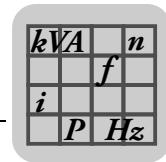
20 024 00 07



**WA10..**



(→ 5)	<b>CMP40M</b>							
AC	57							
AD	78							
ADS	78							
L	239							
LS	269							
LB	136							
LBS	166							
XS	19							



3.2 W 20

M <sub>aDyn</sub> [Nm]	i	CMP			
		50S	50M	63S	63M
W20	6.57	>20	>20	>20	>20
	8.20	>20	>20	>20	>20
	10.25	>25	>25	>25	>25
	14.33	>30	>30	>30	>30
	16.50	>30	>30	>30	>30
	19.50	>35	>35	>35	>35
	24.50	>40	>40	>40	>40
	27.50	>40	>40	>40	>40
	32.50	>40	>40	>40	>40
	39.00	>40	>40	>40	>40
	48.00	>40	>40	>40	>40
	60.00	>40	>40	>40	>40
	75.00	>40	>40	>40	>40

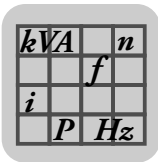
→ (page 5)

m [kg]	s	CMP			
		50S	50M	63S	63M
W20		6.2	7.5	8.5	10

WF: + 0.1 kg / WA: + 0.3 kg / WAF: + 0.3 kg

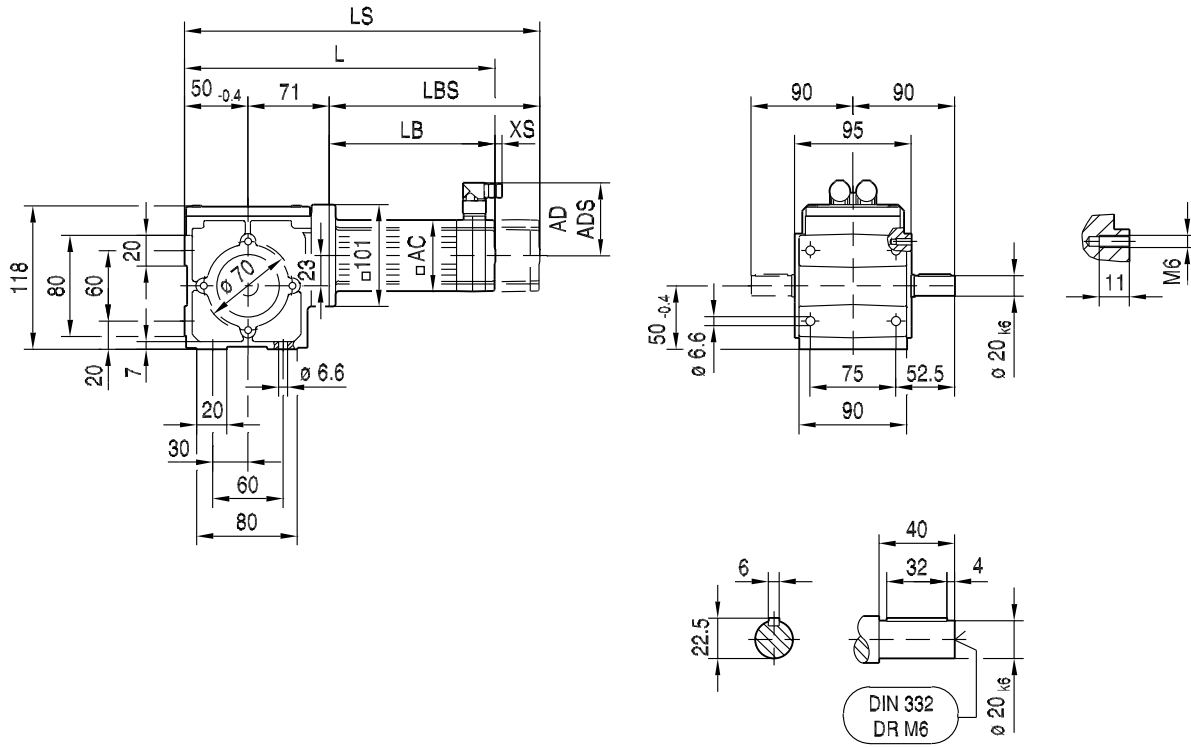
CMP..	i	n <sub>epk</sub> [rpm]	η [%]	C <sub>TG</sub>			
				W [Nm/']	WF [Nm/']	WA [Nm/']	WAF [Nm/']
W20	6.57	4500	91	-	-	-	-
	8.20	4500	87	-	-	-	-
	10.25	4500	84	-	-	-	-
	14.33	4500	80	-	-	-	-
	16.50	4500	76	-	-	-	-
	19.50	4500	73	-	-	-	-
	24.50	4500	68	-	-	-	-
	27.50	4500	67	-	-	-	-
	32.50	4500	67	-	-	-	-
	39.00	4500	57	-	-	-	-
	48.00	4500	51	-	-	-	-
	60.00	4500	44	-	-	-	-
	75.00	4500	41	-	-	-	-

CMP..	n <sub>e</sub> = 1400	i	M <sub>amax</sub> [Nm]	M <sub>apk</sub> [Nm]	M <sub>aNotaus</sub> [Nm]	n <sub>ak</sub> [rpm]	J <sub>G</sub> 10 <sup>-4</sup> [kgm <sup>2</sup> ]	F <sub>Ramax</sub>				F <sub>Rapk</sub>			
								W [N]	WF [N]	WA [N]	WAF [N]	W [N]	WF [N]	WA [N]	WAF [N]
W20	6.57	16	20	24	684	0.21	1740	1330	2180	2180	2200	2200	2200	2200	
	8.20	16	20	24	548	0.20	1830	1400	2200	2200	2200	2200	2200	2200	
	10.25	20	25	30	439	0.17	1920	1480	2200	2200	2200	2200	2200	2200	
	14.33	25	30	37	314	0.14	2110	1620	2200	2200	2200	2200	2200	2200	
	16.50	25	30	37	272	0.15	2200	1680	2200	2200	2200	2200	2200	2200	
	19.50	29	35	43	230	0.14	2200	1750	2200	2200	2200	2200	2200	2200	
	24.50	33	40	50	183	0.13	2200	1850	2200	2200	2200	2200	2200	2200	
	27.50	33	40	50	163	0.12	2200	1940	2200	2200	2200	2200	2200	2200	
	32.50	33	40	50	138	0.12	2200	2080	2200	2200	2200	2200	2200	2200	
	39.00	33	40	50	115	0.12	2200	2200	2200	2200	2200	2200	2200	2200	
	48.00	33	40	50	93	0.13	2200	2200	2200	2200	2200	2200	2200	2200	
	60.00	33	40	50	75	0.13	2200	2200	2200	2200	2200	2200	2200	2200	
	75.00	33	40	50	60	0.12	2200	2200	2200	2200	2200	2200	2200	2200	



W20..

20 025 00 07

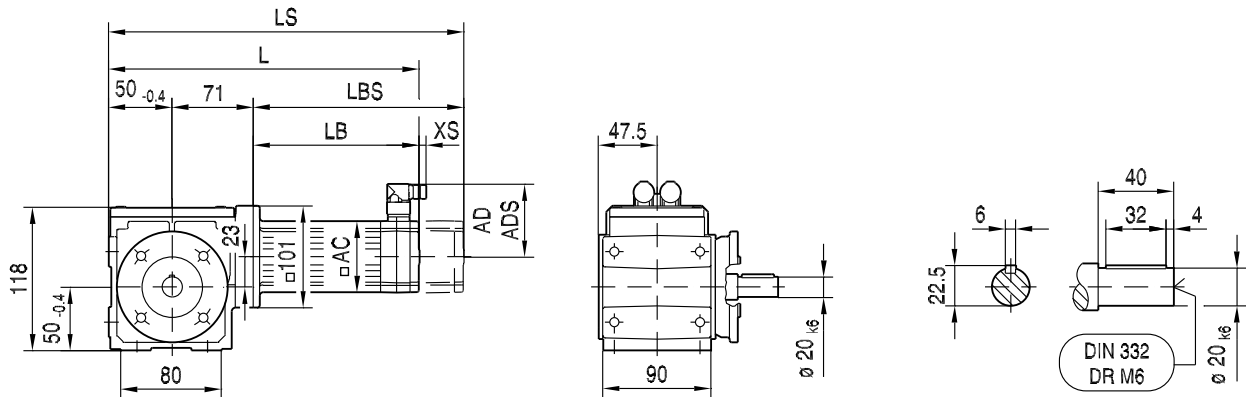


(→ 5)	CMP50S	CMP50M	CMP63S	CMP63M				
AC	73	73	88	88				
AD	86	86	92	92				
ADS	86	86	92	92				
L	267	306	302	352				
LS	296	335	331	381				
LB	146	185	181	231				
LBS	175	214	210	260				
XS	18	18	14	14				

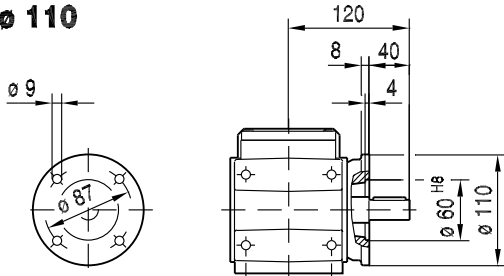


WF20..

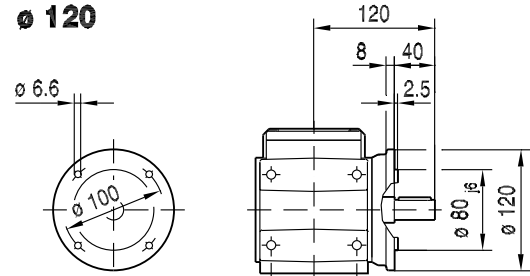
20 026 00 07



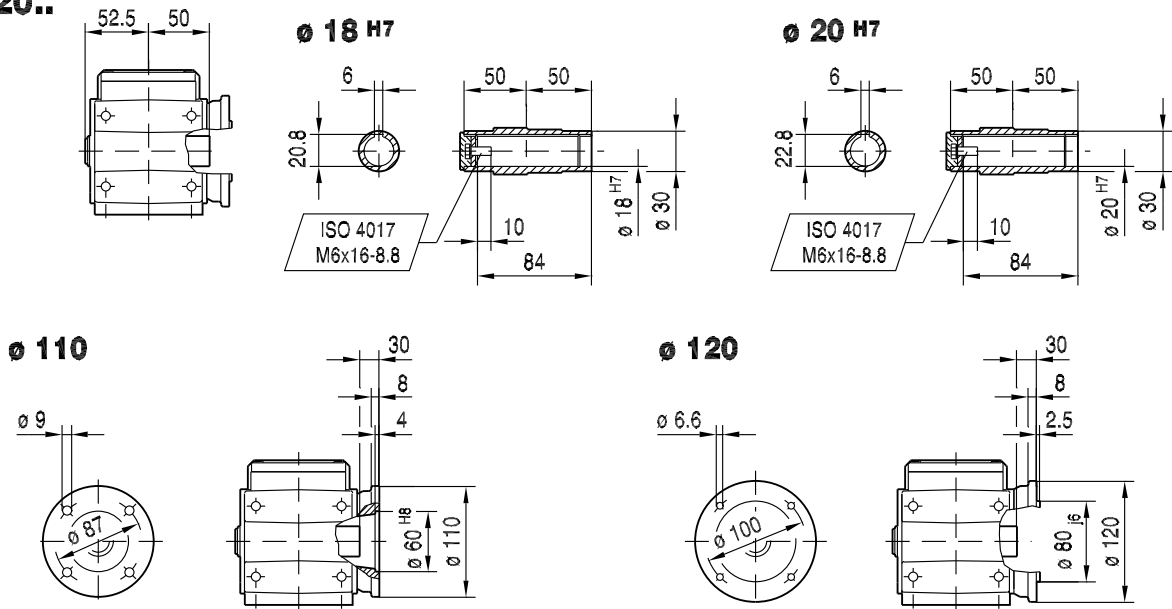
∅ 110



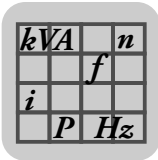
∅ 120



WAF20..

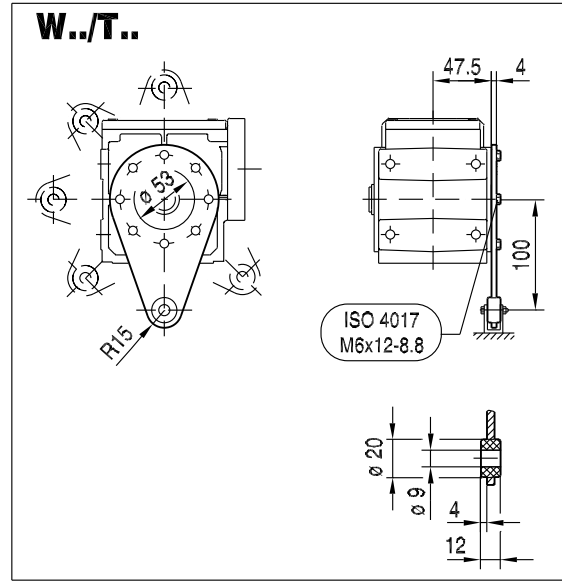


(→ 5)	CMP50S	CMP50M	CMP63S	CMP63M				
AC	73	73	88	88				
AD	86	86	92	92				
ADS	86	86	92	92				
L	267	306	302	352				
LS	296	335	331	381				
LB	146	185	181	231				
LBS	175	214	210	260				
XS	18	18	14	14				

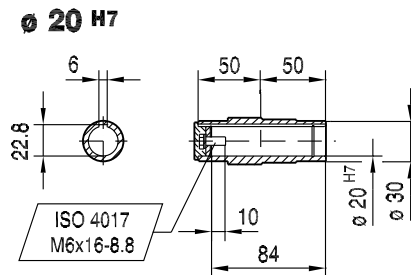
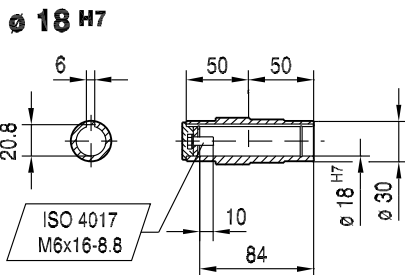
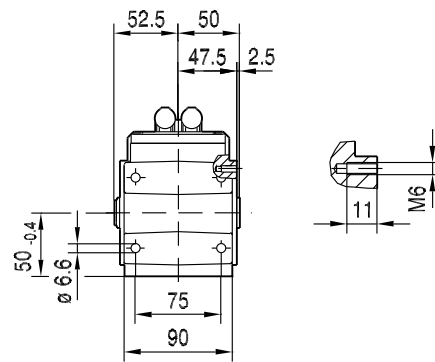
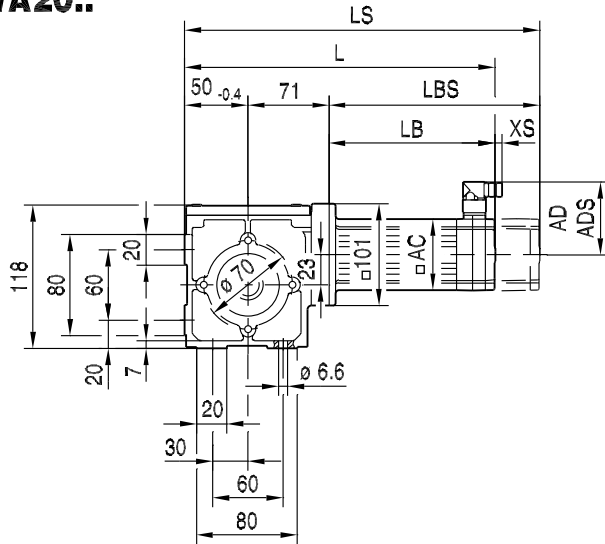


20 027 00 07

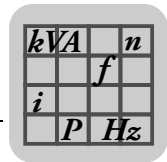
W../T..



WA20..



(→ 5)	CMP50S	CMP50M	CMP63S	CMP63M				
AC	73	73	88	88				
AD	86	86	92	92				
ADS	86	86	92	92				
L	267	306	302	352				
LS	296	335	331	381				
LB	146	185	181	231				
LBS	175	214	210	260				
XS	18	18	14	14				



3.3 W 30

M <sub>aDyn</sub> [Nm]		CMP			
i	50S	50M	63S	63M	
W30	6.57	32	>40	>40	>40
	8.20	38	>40	>40	>40
	10.25	46	>50	>50	>50
	14.33	>60	>60	>60	>60
	16.33	>60	>60	>60	>60
	19.50	>70	>70	>70	>70
	24.50	>70	>70	>70	>70
	27.50	>70	>70	>70	>70
	32.50	>70	>70	>70	>70
	39.00	>70	>70	>70	>70
	48.00	>70	>70	>70	>70
	60.00	>70	>70	>70	>70
	75.00	>70	>70	>70	>70

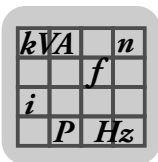
→ (page 5)

m [kg]		CMP			
s	50S	50M	63S	63M	
W30	8.6	10.0	11	13	

WF: + 0.4 kg / WA: + -0.3 kg / WAF: + 0.0 kg

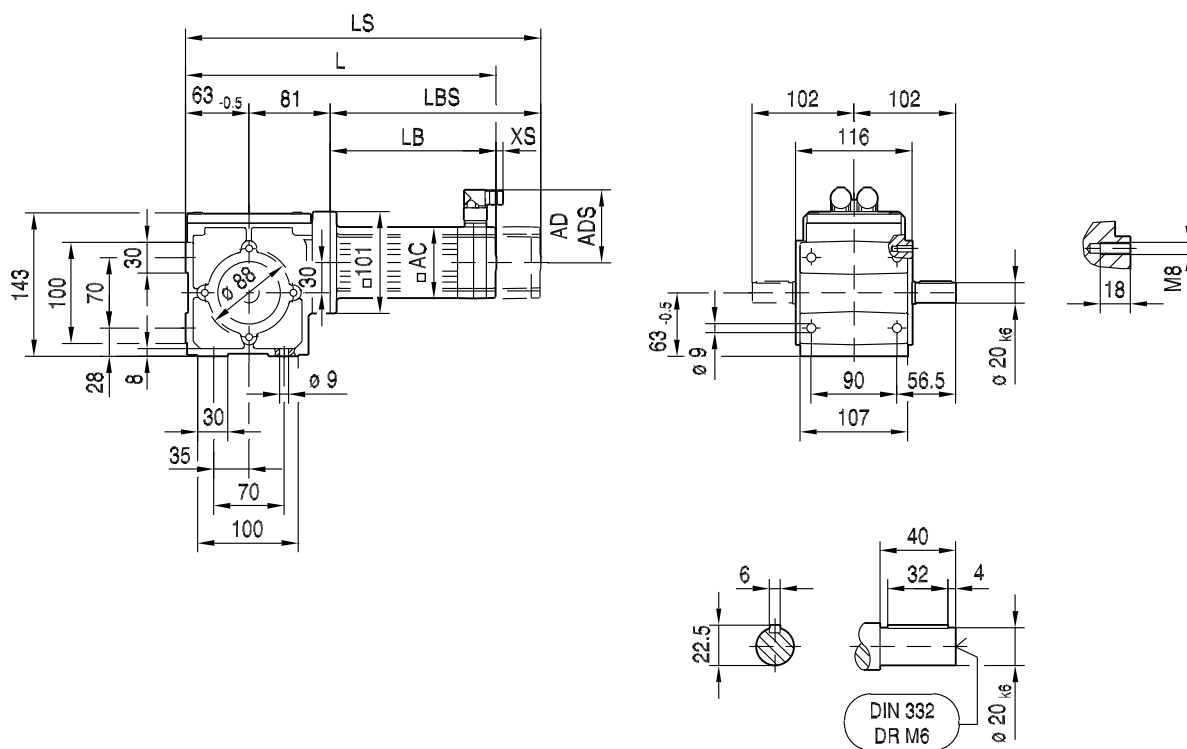
CMP..		n <sub>epk</sub> [rpm]	η [%]	C <sub>TG</sub>			
i	W [Nm/']			WF [Nm/']	WA [Nm/']	WAF [Nm/']	
W30	6.57	4500	93	-	-	-	-
	8.20	4500	89	-	-	-	-
	10.25	4500	87	-	-	-	-
	14.33	4500	83	-	-	-	-
	16.33	4500	80	-	-	-	-
	19.50	4500	78	-	-	-	-
	24.50	4500	73	-	-	-	-
	27.50	4500	70	-	-	-	-
	32.50	4500	64	-	-	-	-
	39.00	4500	63	-	-	-	-
	48.00	4500	57	-	-	-	-
	60.00	4500	52	-	-	-	-
	75.00	4500	45	-	-	-	-

CMP..		F <sub>Ramax</sub>					F <sub>Rapk</sub>							
n <sub>e</sub> = 1400	i	M <sub>amax</sub> [Nm]	M <sub>apk</sub> [Nm]	M <sub>aNotaus</sub> [Nm]	n <sub>ak</sub> [rpm]	J <sub>G</sub> 10 <sup>-4</sup> [kgm <sup>2</sup> ]	W [N]	WF [N]	WA [N]	WAF [N]	W [N]	WF [N]	WA [N]	WAF [N]
W30	6.57	33	40	50	684	0.64	2640	2280	3000	3000	3000	3000	3000	3000
	8.20	33	40	50	548	0.51	2810	2430	3000	3000	3000	3000	3000	3000
	10.25	41	50	61	439	0.44	2970	2570	3000	3000	3000	3000	3000	3000
	14.33	50	60	75	314	0.37	3000	2810	3000	3000	3000	3000	3000	3000
	16.33	50	60	75	275	0.36	3000	2940	3000	3000	3000	3000	3000	3000
	19.50	58	70	87	230	0.34	3000	3000	3000	3000	3000	3000	3000	3000
	24.50	58	70	87	183	0.32	3000	3000	3000	3000	3000	3000	3000	3000
	27.50	58	70	87	163	0.33	3000	3000	3000	3000	3000	3000	3000	3000
	32.50	58	70	87	138	0.31	3000	3000	3000	3000	3000	3000	3000	3000
	39.00	58	70	87	115	0.31	3000	3000	3000	3000	3000	3000	3000	3000
	48.00	58	70	87	93	0.31	3000	3000	3000	3000	3000	3000	3000	3000
	60.00	58	70	87	75	0.30	3000	3000	3000	3000	3000	3000	3000	3000
	75.00	58	70	87	60	0.30	3000	3000	3000	3000	3000	3000	3000	3000



W30..

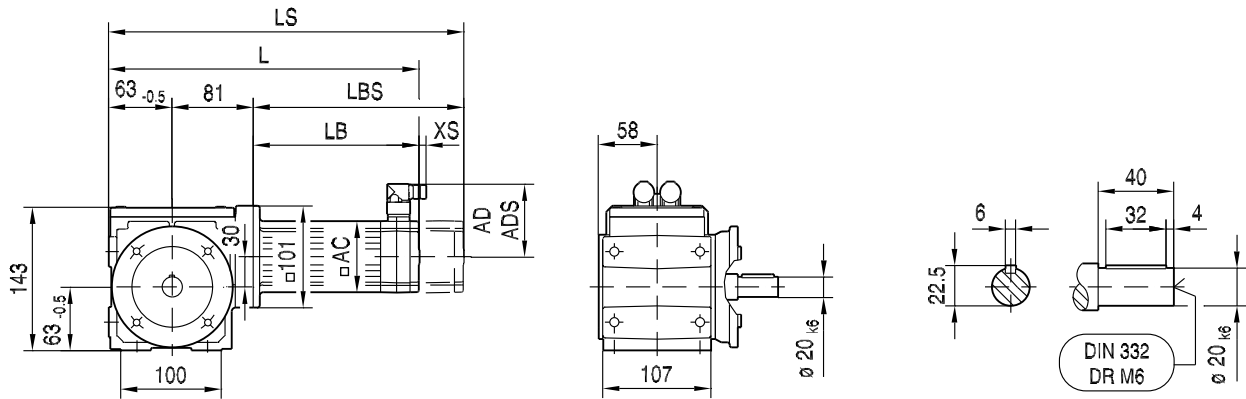
20 028 00 07



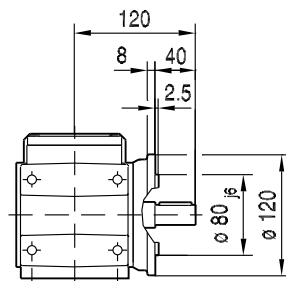
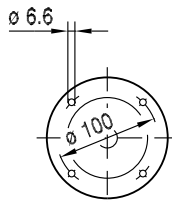
(→ 5)	CMP50S	CMP50M	CMP63S	CMP63M				
AC	73	73	88	88				
AD	86	86	92	92				
ADS	86	86	92	92				
L	292	331	327	377				
LS	321	360	356	406				
LB	146	185	181	231				
LBS	175	214	210	260				
XS	18	18	14	14				

**WF30..**

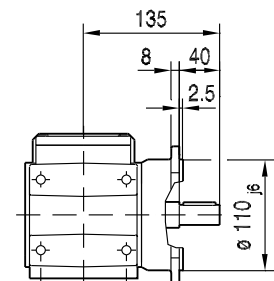
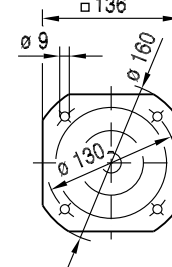
20 029 00 07



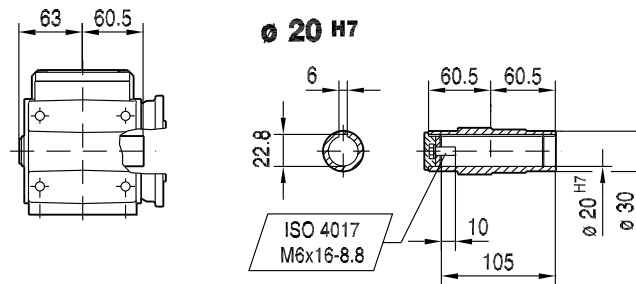
**∅ 120**



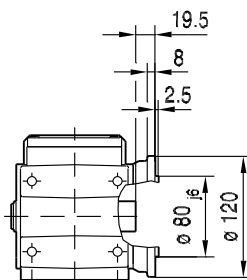
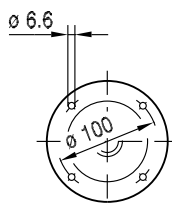
**∅ 160**



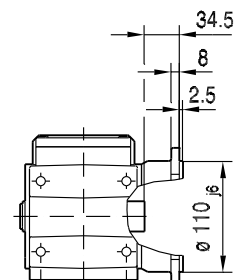
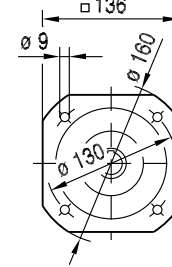
**WAF30..**



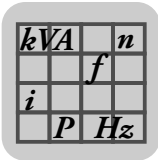
**∅ 120**



**∅ 160**

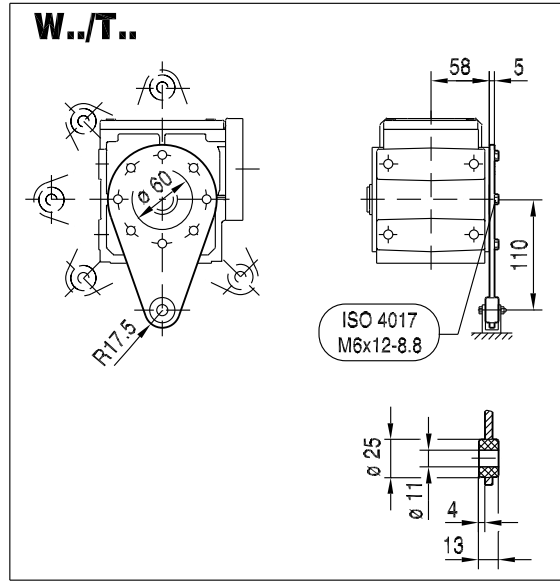


(→ 5)	CMP50S	CMP50M	CMP63S	CMP63M				
AC	73	73	88	88				
AD	86	86	92	92				
ADS	86	86	92	92				
L	292	331	327	377				
LS	321	360	356	406				
LB	146	185	181	231				
LBS	175	214	210	260				
XS	18	18	14	14				

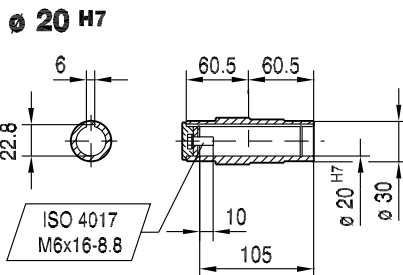
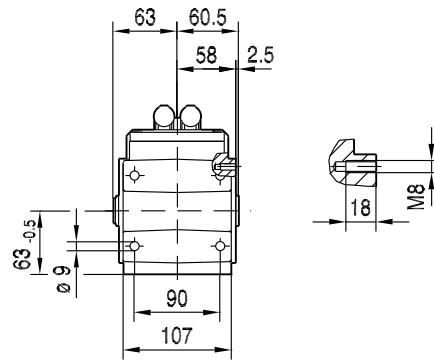
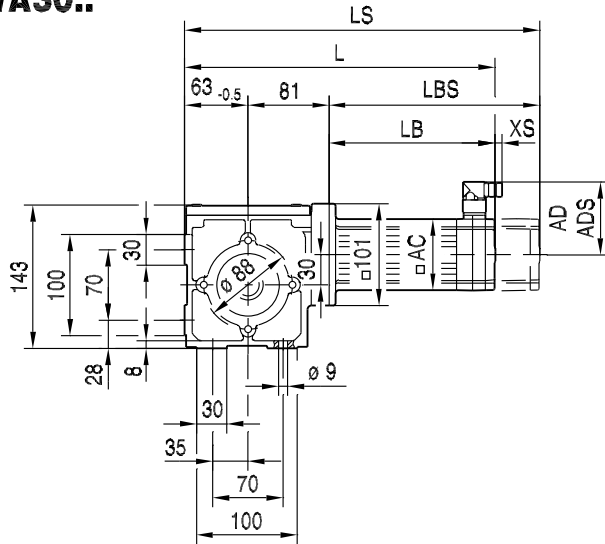


20 030 00 07

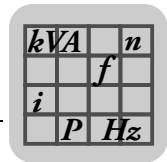
W../T..



WA30..



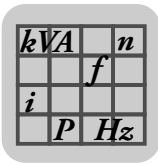
(→ 5)	CMP50S	CMP50M	CMP63S	CMP63M				
AC	73	73	88	88				
AD	86	86	92	92				
ADS	86	86	92	92				
L	292	331	327	377				
LS	321	360	356	406				
LB	146	185	181	231				
LBS	175	214	210	260				
XS	18	18	14	14				



## 4 Technical Data of the Motors

### 4.1 Key to the technical data

$n_N$	Rated speed
$M_0$	Standstill torque (thermal continuous torque at low speeds)
$I_0$	Standstill current
$M_{pk}$	Dynamic limit torque
$I_{max}$	Maximum permitted motor current
$M_{0VR}$	Standstill torque with forced cooling fan
$I_{0VR}$	Standstill current with forced cooling fan
$J_{mot}$	Mass moment of inertia of the motor
$J_{bmot}$	Mass moment of inertia of the brakemotor
$M_{B1}$	Standard braking torque
$M_{B2}$	Optional braking torque
$W_{max1}$	Maximum permitted braking work per braking operation
$W_{max2}$	Maximum permitted braking work per braking operation with optional braking torque
$L_1$	Inductance between connection phase and star point
$R_1$	Resistance between connection phase and star point
$U_{p0\ cold}$	Internal voltage at 1000 rpm
$m_{mot}$	Weight of the motor
$m_{bmot}$	Weight of the brakemotor

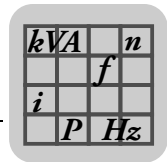


## 4.2 Technical data of CMP motors

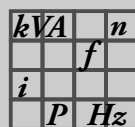
Synchronous servomotors with a system voltage of 400 V

$n_N$ rpm	Motor	$M_0$ Nm	$I_0$ A	$M_{pk}$ Nm	$I_{max}$ A	$M_{0VR}$ Nm	$I_{0VR}$ A	m kg	$J_{mot}$ $10^{-4}kgm^2$
2000	CMP71S	6.4	3.4	19.2	17	8.7	4.6	7	3.04
	CMP71M	9.4	5	30.8	26	13.7	7.3	8.4	4.08
	CMP71L	13.1	6.3	46.9	39	21	10.1	11.4	6.18
	CMP80S	13.4	6.9	42.1	33	18.7	9.5	12.8	8.78
	CMP80M	18.7	9.3	62.6	48	27	13.4	16.5	11.9
	CMP80L	27.5	12.5	107	72	44	20	21.4	18.1
	CMP100S	25.5	13.3	68.3	49	36	18.8	19.8	19.59
	CMP100M	31	14.7	108	69	47	22.3	24.8	26.49
	CMP100L	47	21.8	178.8	113	70	32.5	34.6	40.24
3000	CMP40S	0.5	1.2	1.9	6.1	–	–	1.3	0.1
	CMP40M	0.8	0.95	3.8	6.0	–	–	1.6	0.15
	CMP50S	1.3	0.96	5.2	5.1	1.7	1.25	2.3	0.42
	CMP50M	2.4	1.68	10.3	9.6	3.5	2.45	3.3	0.67
	CMP50L	3.3	2.2	15.4	13.6	4.8	3.2	4.1	0.92
	CMP63S	2.9	2.15	11.1	12.9	4	3	4.0	1.15
	CMP63M	5.3	3.6	21.4	21.6	7.5	5.1	5.7	1.92
	CMP63L	7.1	4.95	30.4	29.7	10.3	7.2	7.5	2.69
	CMP71S	6.4	4.9	19.2	25	8.7	6.7	7	3.04
	CMP71M	9.4	7.5	30.8	39	13.7	10.9	8.4	4.08
	CMP71L	13.1	9.4	46.9	58	21	15.1	11.4	6.18
	CMP80S	13.4	10	42.1	47	18.5	13.8	12.8	8.78
	CMP80M	18.7	13.4	62.6	69	27	19.3	16.5	11.9
	CMP80L	27.5	18.7	107	107	44	30	21.4	18.1
	CMP100S	25.5	19.6	68.3	73	36	27.5	19.8	19.59
	CMP100M	31	21.8	108	102	47	33	24.8	26.49
CMP100L	47	32.3	178.8	167	70	48	34.6	40.24	
4500	CMP40S	0.5	1.2	1.9	6.1	–	–	1.3	0.1
	CMP40M	0.8	0.95	3.8	6.0	–	–	1.6	0.15
	CMP50S	1.3	1.32	5.2	7.0	1.7	1.7	2.3	0.42
	CMP50M	2.4	2.3	10.3	13.1	3.5	3.35	3.3	0.67
	CMP50L	3.3	3.15	15.4	19.5	4.8	4.6	4.1	0.92
	CMP63S	2.9	3.05	11.1	18.3	4	4.2	4.0	1.15
	CMP63M	5.3	5.4	21.4	32.4	7.5	7.6	5.7	1.92
	CMP63L	7.1	6.9	30.4	41.4	10.3	10	7.5	2.69
	CMP71S	6.4	7.3	19.2	38	8.7	9.9	7	3.04
	CMP71M	9.4	10.9	30.8	57	13.7	15.9	8.4	4.08
	CMP71L	13.1	14.1	46.9	87	21	22.5	11.4	6.18
	CMP80S	13.4	15.3	42.1	73	18.5	21	12.8	8.78
	CMP80M	18.7	20.1	62.6	103	27	29	16.5	11.9
	CMP80L	27.5	27.8	107	159	44	44.5	21.4	18.1
	CMP100S	25.5	30	68.3	111	36	42.5	19.8	19.59
	CMP100M	31	33.1	108	154	47	50	24.8	26.49
CMP100L	47	48.4	178.8	251	70	72	34.6	40.24	





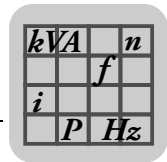
$n_N$ rpm	Motor	$M_0$ Nm	$I_0$ A	$M_{pk}$ Nm	$I_{max}$ A	$M_{OVR}$ Nm	$I_{OVR}$ A	m kg	$J_{mot}$ $10^{-4}kgm^2$
6000	CMP40S	0.5	1.2	1.9	6.1	–	–	1.3	0.1
	CMP40M	0.8	1.1	3.8	6.9	–	–	1.6	0.15
	CMP50S	1.3	1.7	5.2	9.0	1.7	2.2	2.3	0.42
	CMP50M	2.4	3	10.3	17.1	3.5	4.4	3.3	0.67
	CMP50L	3.3	4.2	15.4	26	4.8	6.1	4.1	0.92
	CMP63S	2.9	3.9	11.1	23.4	4	5.4	4.0	1.15
	CMP63M	5.3	6.9	21.4	41.4	7.5	9.8	5.7	1.92
	CMP63L	7.1	9.3	30.4	55.8	10.3	13.5	7.5	2.69
	CMP71S	6.4	9.6	19.2	50	8.7	13.1	7	3.04
	CMP71M	9.4	14.7	30.8	76	13.7	21.5	8.4	4.08
	CMP71L	13.1	18.8	46.9	115	21	30	11.4	6.18
	CMP80S	13.4	20	42.1	95	18.5	27.5	12.8	8.78
	CMP80M	18.7	26.4	62.6	135	27	38	16.5	11.9
CMP80L	27.5	37.6	107	215	44	60	21.4	18.1	



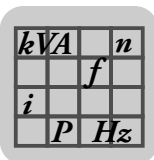
## Technical Data of the Motors

### Technical data of CMP motors

$n_N$ rpm	Motor	$L_1$ mH	$R_1$ $\Omega$	$U_{p0cold}$ V	$m_{bmot}$ kg	$J_{bmot}$ $10^{-4}kgm^2$	$M_{B1}$	$M_{B2}$
							Nm	
2000	CMP71S	33.5	3.48	128	9	3.44	7	14
	CMP71M	21.5	1.87	127	10.4	4.5	14	7
	CMP71L	16.2	1.2	142	13.4	6.6	14	7
	CMP80S	15.3	1.1	133	16.8	10.04	16	31
	CMP80M	10.5	0.69	136	20.5	13.16	31	16
	CMP80L	7.6	0.44	149	24.4	19.36	31	16
	CMP100S	8.5	0.44	130	22.8	21.34	24	47
	CMP100M	6.6	0.3	141	27.8	28.25	47	24
	CMP100L	4.15	0.169	145	37.6	42	47	24
3000	CMP40S	23	11.94	27.5	1.7	0.13	0.95	–
	CMP40M	46	19.93	56	2.0	0.18	0.95	–
	CMP50S	71	22.49	86	2.9	0.48	3.1	4.3
	CMP50M	38.5	9.96	90	3.9	0.73	4.3	3.1
	CMP50L	30.5	7.42	98	4.7	0.98	4.3	3.1
	CMP63S	36.5	6.79	90	5.0	1.49	7	9.3
	CMP63M	22	3.56	100	6.7	2.26	9.3	7
	CMP63L	14.2	2.07	100	8.5	3.03	9.3	7
	CMP71S	15.7	1.48	87.5	9	3.44	7	14
	CMP71M	9.7	0.81	85	10.4	4.5	14	7
	CMP71L	7.3	0.56	96	13.4	6.6	14	7
	CMP80S	7.2	0.54	91	16.8	10.04	16	31
	CMP80M	5	0.345	94	20.5	13.16	31	16
	CMP80L	3.35	0.21	99	24.4	19.36	31	16
	CMP100S	3.9	0.215	88	22.8	21.34	24	47
	CMP100M	3.05	0.142	95.5	27.8	28.25	47	24
CMP100L	1.9	0.081	98	37.6	42	47	24	
4500	CMP40S	23	11.94	27.5	1.7	0.13	0.95	–
	CMP40M	46	19.93	56	2.0	0.18	0.95	–
	CMP50S	37	11.61	62	2.9	0.48	3.1	4.3
	CMP50M	20.5	5.28	66	3.9	0.73	4.3	3.1
	CMP50L	14.6	3.57	68	4.7	0.98	4.3	3.1
	CMP63S	18.3	3.34	64	5.0	1.49	7	9.3
	CMP63M	9.8	1.48	67	6.7	2.26	9.3	7
	CMP63L	7.2	1.07	71	8.5	3.03	9.3	7
	CMP71S	7.1	0.72	59	9	3.44	7	14
	CMP71M	4.55	0.385	58	10.4	4.5	14	7
	CMP71L	3.25	0.24	64	13.4	6.6	14	7
	CMP80S	3.05	0.22	59	16.8	10.04	16	31
	CMP80M	2.25	0.148	63	20.5	13.16	31	16
	CMP80L	1.54	0.085	67	24.4	19.36	31	16
	CMP100S	1.68	0.086	58	22.8	21.34	24	47
	CMP100M	1.32	0.058	63	27.8	28.25	47	24
CMP100L	0.84	0.038	65	37.6	42	47	24	

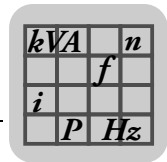


$n_N$ rpm	Motor	$L_1$ mH	$R_1$ $\Omega$	$U_{p0cold}$ V	$m_{bmot}$ kg	$J_{bmot}$ $10^{-4}kgm^2$	$M_{B1}$ Nm	$M_{B2}$
6000	CMP40S	23	11.94	27.5	1.7	0.13	0.95	–
	CMP40M	34	14.95	48.5	2.0	0.18	0.95	–
	CMP50S	22.5	7.11	48.5	2.9	0.48	3.1	4.3
	CMP50M	12	3.21	50.5	3.9	0.73	4.3	3.1
	CMP50L	8.2	1.91	51	4.7	0.98	4.3	3.1
	CMP63S	11.2	2.1	50	5.0	1.49	7	9.3
	CMP63M	5.9	0.92	52	6.7	2.26	9.3	7
	CMP63L	4	0.62	53	8.5	3.03	9.3	7
	CMP71S	4.15	0.395	45	9	3.44	7	14
	CMP71M	2.55	0.205	43.5	10.4	4.5	14	7
	CMP71L	1.84	0.145	48	13.4	6.6	14	7
	CMP80S	1.8	0.136	46	–	–	–	–
	CMP80M	1.3	0.087	48	–	–	–	–
	CMP80L	0.84	0.051	50	–	–	–	–

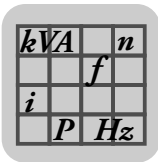


## Synchronous servomotors with a system voltage of 230 V

$n_N$ rpm	Motor	$M_0$ Nm	$I_0$ A	$M_{pk}$ Nm	$I_{max}$ A	$M_{OVR}$ Nm	$I_{OVR}$ A	m kg	$J_{mot}$ $10^{-4}kgm^2$
3000	CMP40S	0.5	1.2	1.9	6.1	–	–	1.3	0.1
	CMP40M	0.8	1.1	3.8	6.89	–	–	1.6	0.15
	CMP50S	1.3	1.64	5.2	9.8	–	–	2.3	0.42
	CMP50M	2.4	2.84	10.3	17.05	–	–	3.3	0.67
	CMP50L	3.3	3.84	15.4	23.1	–	–	4.1	0.92
	CMP63S	2.9	3.61	11.1	21.65	–	–	4.0	1.15
	CMP63M	5.3	6.35	21.4	38.1	–	–	5.7	1.92
	CMP63L	7.1	8.76	30.4	52.59	–	–	7.5	2.69
	CMP71S	6.4	8.7	19.2	44	8.7	11.8	7	3.04
	CMP71M	9.4	13.1	30.8	68	13.7	19.1	8.4	4.08
	CMP71L	13.1	16.8	46.9	103	21	27	11.4	6.18
	CMP80S	13.4	17.7	42.1	83	18.5	24.5	12.8	8.78
	CMP80M	18.7	23.5	62.6	121	27	34	16.5	11.9
	CMP80L	27.5	32.5	107	186	44	52	21.4	18.1
	CMP100S	25.5	34.2	68.3	127	–	–	19.8	19.59
CMP100M	31	40	108	187	–	–	24.8	26.49	
4500	CMP40S	0.5	1.2	1.9	6.1	–	–	1.3	0.1
	CMP40M	0.8	1.5	3.8	9	–	–	1.6	0.15
	CMP50S	1.3	2.26	5.2	13.75	–	–	2.3	0.42
	CMP50M	2.4	4.025	10.3	24.2	–	–	3.3	0.67
	CMP50L	3.3	5.53	15.4	33.2	–	–	4.1	0.92
	CMP63S	2.9	5.25	11.1	31.5	–	–	4.0	1.15
	CMP63M	5.3	9.78	21.4	58.7	–	–	5.7	1.92
	CMP63L	7.1	12.01	30.4	72.07	–	–	7.5	2.69
	CMP71S	6.4	12.8	19.2	67	8.7	17.4	7	3.04
	CMP71M	9.4	19.2	30.8	101	13.7	28	8.4	4.08
	CMP80S	13.4	27	42.1	129	18.5	37	12.8	8.78
	CMP80M	18.7	35	62.6	180	27	51	16.5	11.9
	CMP100S	25.5	54.5	68.3	200	–	–	19.8	19.59
6000	CMP40S	0.5	1.36	1.9	6.8	–	–	1.3	0.1
	CMP40M	0.8	1.91	3.8	11.5	–	–	1.6	0.15
	CMP50S	1.3	3.07	5.2	18.45	–	–	2.3	0.42
	CMP50M	2.4	5.25	10.3	31.5	–	–	3.3	0.67
	CMP50L	3.3	7.6	15.4	45.4	–	–	4.1	0.92
	CMP63S	2.9	6.78	11.1	40.7	–	–	4.0	1.15
	CMP63M	5.3	12.06	21.4	72.36	–	–	5.7	1.92
	CMP71S	6.4	17	19.2	89	8.7	23	7	3.04
	CMP80S	13.4	35.5	42.1	168	18.5	48.5	12.8	8.78



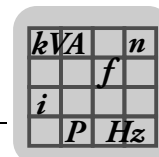
$n_N$ rpm	Motor	$L_1$ mH	$R_1$ $\Omega$	$U_{p0cold}$ V	$m_{bmot}$ kg	$J_{bmot}$ $10^{-4}kgm^2$	$M_{B1}$ Nm	$M_{B2}$
3000	CMP40S	23	11.94	27.5	1.7	0.13	0.95	–
	CMP40M	34	14.95	48.5	2.0	0.18	0.95	–
	CMP50S	24.5	7.39	50.4	2.9	0.48	3.1	4.3
	CMP50M	13.5	3.41	53.7	3.9	0.73	4.3	3.1
	CMP50L	9.8	2.34	55.7	4.7	0.98	4.3	3.1
	CMP63S	13	2.56	54	5.0	1.49	7	9.3
	CMP63M	7.1	1.12	57	6.7	2.26	9.3	7
	CMP63L	4.45	0.66	56	8.5	3.03	9.3	7
	CMP71S	5	0.485	49.5	9	3.44	7	14
	CMP71M	3.15	0.26	48.7	10.4	4.5	14	7
	CMP71L	2.3	0.162	53.7	13.4	6.6	14	7
	CMP80S	2.3	0.166	51.5	16.8	10.04	16	31
	CMP80M	1.64	0.113	53.3	20.5	13.16	31	16
	CMP80L	1.11	0.073	57	24.4	19.36	31	16
CMP100S	1.29	0.066	50.5	22.8	21.34	24	47	
CMP100M	0.9	0.0445	52.1	27.8	28.25	47	24	
4500	CMP40S	23	11.94	27.5	1.7	0.13	0.95	–
	CMP40M	18.4	7.85	35.7	2.0	0.18	0.95	–
	CMP50S	12.3	3.73	35.9	2.9	0.48	3.1	4.3
	CMP50M	6.8	1.68	37.9	3.9	0.73	4.3	3.1
	CMP50L	4.75	1.14	38.7	4.7	0.98	4.3	3.1
	CMP63S	6.2	1.09	37.1	5.0	1.49	7	9.3
	CMP63M	3	0.46	37	6.7	2.26	9.3	7
	CMP63L	2.4	0.34	40.9	8.5	3.03	9.3	7
	CMP71S	2.3	0.225	33.4	9	3.44	7	14
	CMP71M	1.46	0.127	33.1	10.4	4.5	14	7
	CMP80S	0.98	0.07	33.7	16.8	10.04	16	31
	CMP80M	0.73	0.051	35.9	20.5	13.16	31	16
	CMP100S	0.51	0.027	31.7	22.8	21.34	24	47
	6000	CMP40S	17.9	9.19	24.3	1.7	0.13	0.95
CMP40M		11.2	4.83	27.8	2.0	0.18	0.95	–
CMP50S		6.9	2	26.8	2.9	0.48	3.1	4.3
CMP50M		3.95	1.03	29	3.9	0.73	4.3	3.1
CMP50L		2.55	0.6	28.3	4.7	0.98	4.3	3.1
CMP63S		3.7	0.67	28.7	5.0	1.49	7	9.3
CMP63M		1.96	0.295	30	6.7	2.26	9.3	7
CMP71S		1.32	0.124	25.3	9	3.44	7	14
CMP80S		0.58	0.0415	25.7	16.8	10.04	–	–



### 4.3 Technical data of CMPZ motors

Synchronous servomotors with a system voltage of 400 V

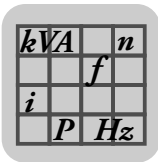
$n_N$ rpm	Motor	$M_0$ Nm	$I_0$ A	$M_{pk}$ Nm	$I_{max}$ A	$M_{OVR}$ Nm	$I_{OVR}$ A	m kg	$J_{mot}$ $10^{-4}kgm^2$
2000	CMPZ71S	6.4	3.4	19.2	17	8.7	4.6	8.6	9.32
	CMPZ71M	9.4	5	30.8	26	13.7	7.3	10	10.37
	CMPZ71L	13.1	6.3	46.9	39	21	10.1	13	12.47
	CMPZ80S	13.4	6.9	42.1	33	18.7	9.5	15.8	27.18
	CMPZ80M	18.7	9.3	62.6	48	27	13.4	19.5	30.3
	CMPZ80L	27.5	12.5	107	72	44	20	24.4	36.51
	CMPZ100S	25.5	13.3	68.3	49	36	18.8	24.2	79.76
	CMPZ100M	31	14.7	108	69	47	22.3	29.2	86.66
CMPZ100L	47	21.8	178.8	113	70	32.5	39	100.41	
3000	CMPZ71S	6.4	4.9	19.2	25	8.7	6.7	8.6	9.32
	CMPZ71M	9.4	7.5	30.8	39	13.7	10.9	10	10.37
	CMPZ71L	13.1	9.4	46.9	58	21	15.1	13	12.47
	CMPZ80S	13.4	10	42.1	47	18.5	13.8	15.8	27.18
	CMPZ80M	18.7	13.4	62.6	69	27	19.3	19.5	30.3
	CMPZ80L	27.5	18.7	107	107	44	30	24.4	36.51
	CMPZ100S	25.5	19.6	68.3	73	36	27.5	24.2	79.76
	CMPZ100M	31	21.8	108	102	47	33	29.2	86.66
CMPZ100L	47	32.3	178.8	167	70	48	39	100.41	
4500	CMPZ71S	6.4	7.3	19.2	38	8.7	9.9	8.6	9.32
	CMPZ71M	9.4	10.9	30.8	57	13.7	15.9	10	10.37
	CMPZ71L	13.1	14.1	46.9	87	21	22.5	13	12.47
	CMPZ80S	13.4	15.3	42.1	73	18.5	21	15.8	27.18
	CMPZ80M	18.7	20.1	62.6	103	27	29	19.5	30.3
	CMPZ80L	27.5	27.8	107	159	44	44.5	24.4	36.51
	CMPZ100S	25.5	30	68.3	111	36	42.5	24.2	79.76
	CMPZ100M	31	33.1	108	154	47	50	29.2	86.66
CMPZ100L	47	48.4	178.8	251	70	72	39	100.41	
6000	CMPZ71S	6.4	9.6	19.2	50	8.7	13.1	8.6	9.32
	CMPZ71M	9.4	14.7	30.8	76	13.7	21.5	10	10.37
	CMPZ71L	13.1	18.8	46.9	115	21	30	13	12.47
	CMPZ80S	13.4	20	42.1	95	18.5	27.5	15.8	27.18
	CMPZ80M	18.7	26.4	62.6	135	27	38	19.5	30.3
	CMPZ80L	27.5	37.6	107	215	–	–	24.4	36.51



$n_N$ rpm	Motor	$L_1$ mH	$R_1$ $\Omega$	$U_{p0cold}$ V	$\Delta LB^{1)}$ mm	$m_{bmot}$ kg	$J_{bmot}$ $10^{-4}kgm^2$	$M_{B1}$ Nm	$M_{B2}$	$\Delta LB^{2)}$ mm
2000	CMPZ71S	33.5	3.48	128	62.6	11.2	11.04	14	10	58.5
	CMPZ71M	21.5	1.87	127	62.6	12.6	12.09	20	14	58.5
	CMPZ71L	16.2	1.2	142	62.6	15.6	14.19	20	14	58.5
	CMPZ80S	15.3	1.1	133	75.3	20.8	30.95	28	20	62.4
	CMPZ80M	10.5	0.69	136	75.3	24.5	34.07	40	28	62.4
	CMPZ80L	7.6	0.44	149	75.3	29.4	40.28	40	28	62.4
	CMPZ100S	8.5	0.44	130	96.2	34.7	84.19	55	40	61.1
	CMPZ100M	6.6	0.3	141	96.2	39.7	91.1	80	55	61.1
	CMPZ100L	4.15	0.169	145	96.2	49.5	104.85	80	55	61.1
3000	CMPZ71S	15.7	1.48	87.5	62.6	11.2	11.04	14	10	58.5
	CMPZ71M	9.7	0.81	85	62.6	12.6	12.09	20	14	58.5
	CMPZ71L	7.3	0.56	96	62.6	15.6	14.19	20	14	58.5
	CMPZ80S	7.2	0.54	91	75.3	20.8	30.95	28	20	62.4
	CMPZ80M	5	0.345	94	75.3	24.5	34.07	40	28	62.4
	CMPZ80L	3.35	0.21	99	75.3	29.4	40.28	40	28	62.4
	CMPZ100S	3.9	0.215	88	96.2	34.7	84.19	55	40	61.1
	CMPZ100M	3.05	0.142	95.5	96.2	39.7	91.1	80	55	61.1
	CMPZ100L	1.9	0.081	98	96.2	49.5	104.85	80	55	61.1
4500	CMPZ71S	7.1	0.72	59	62.6	11.2	11.04	14	10	58.5
	CMPZ71M	4.55	0.385	58	62.6	12.6	12.09	20	14	58.5
	CMPZ71L	3.25	0.24	64	62.6	15.6	14.19	20	14	58.5
	CMPZ80S	3.05	0.22	59	75.3	20.8	30.95	28	20	62.4
	CMPZ80M	2.25	0.148	63	75.3	24.5	34.07	40	28	62.4
	CMPZ80L	1.54	0.085	67	75.3	29.4	40.28	40	28	62.4
	CMPZ100S	1.68	0.086	58	96.2	34.7	84.19	55	40	61.1
	CMPZ100M	1.32	0.058	63	96.2	39.7	91.1	80	55	61.1
	CMPZ100L	0.84	0.038	65	96.2	49.5	104.85	80	55	61.1
6000	CMPZ71S	4.15	0.395	45	62.6	11.2	11.04	14	10	58.5
	CMPZ71M	2.55	0.205	43.5	62.6	12.6	12.09	20	14	58.5
	CMPZ71L	1.84	0.145	48	62.6	15.6	14.19	20	14	58.5
	CMPZ80S	1.8	0.136	46	75.3	–	–	–	–	62.4
	CMPZ80M	1.3	0.087	48	75.3	–	–	–	–	62.4
	CMPZ80L	0.84	0.051	50	75.3	–	–	–	–	62.4

1) Additional length of CMPZ.. motors compared with the corresponding CMP.. motor

2) Additional length of the CMPZ../BY brakemotor compared with the corresponding CMP../BP brakemotor



## Technical Data of the Motors

### Technical data of CMPZ motors

Synchronous servomotors with a system voltage of 230 V

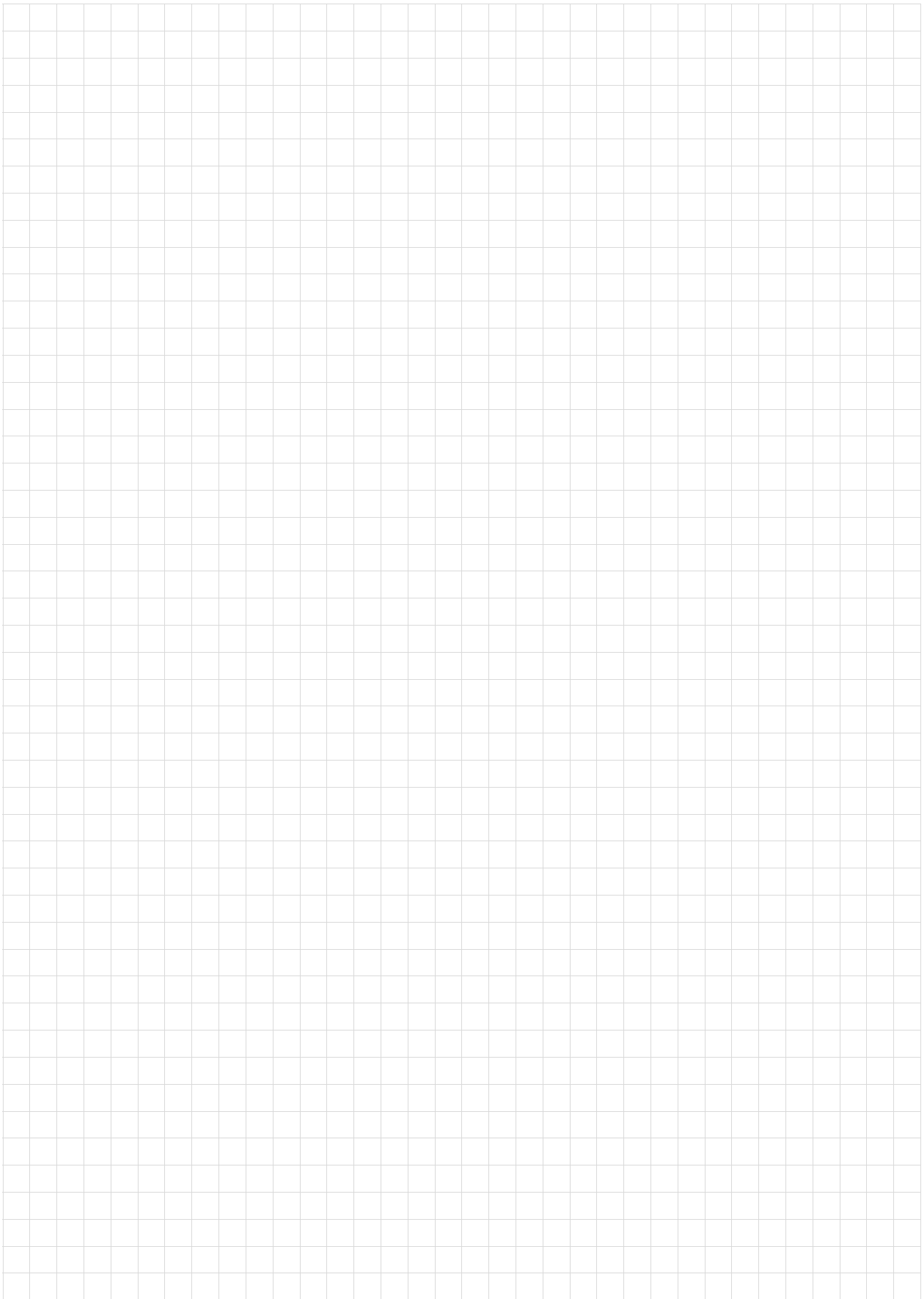
$n_N$ rpm	Motor	$M_0$ Nm	$I_0$ A	$M_{pk}$ Nm	$I_{max}$ A	$M_{0VR}$ Nm	$I_{0VR}$ A	m kg	$J_{mot}$ $10^{-4}kgm^2$
3000	CMPZ71S	6.4	8,7	19.2	44	8,7	11,8	8.6	9.32
	CMPZ71M	9.4	13,1	30.8	68	13,7	19,1	10	10.37
	CMPZ71L	13.1	16,8	46.9	103	21	27	13	12.47
	CMPZ80S	13.4	17,7	42.1	83	18,5	24,5	15.8	27.18
	CMPZ80M	18.7	23,5	62.6	121	27	34	19.5	30.3
	CMPZ80L	27.5	32,5	107	186	44	52	24.4	36.51
	CMPZ100S	25.5	34,2	68.3	127	–	–	24.2	79.76
	CMPZ100M	31	40	108	187	–	–	29.2	86.66
4500	CMPZ71S	6.4	12,8	19.2	67	8,7	17,4	8.6	9.32
	CMPZ71M	9.4	19,2	30.8	101	13,7	28	10	10.37
	CMPZ80S	13.4	27	42.1	129	18,5	37	15.8	27.18
	CMPZ80M	18.7	35	62.6	180	27	51	19.5	30.3
	CMPZ100S	25.5	54,5	68.3	200	–	–	24.2	79.76
6000	CMPZ71S	6.4	17	19.2	89	8,7	23	8.6	9.32
	CMPZ80S	13.4	35,5	42.1	168	18,5	48,5	15.8	27.18

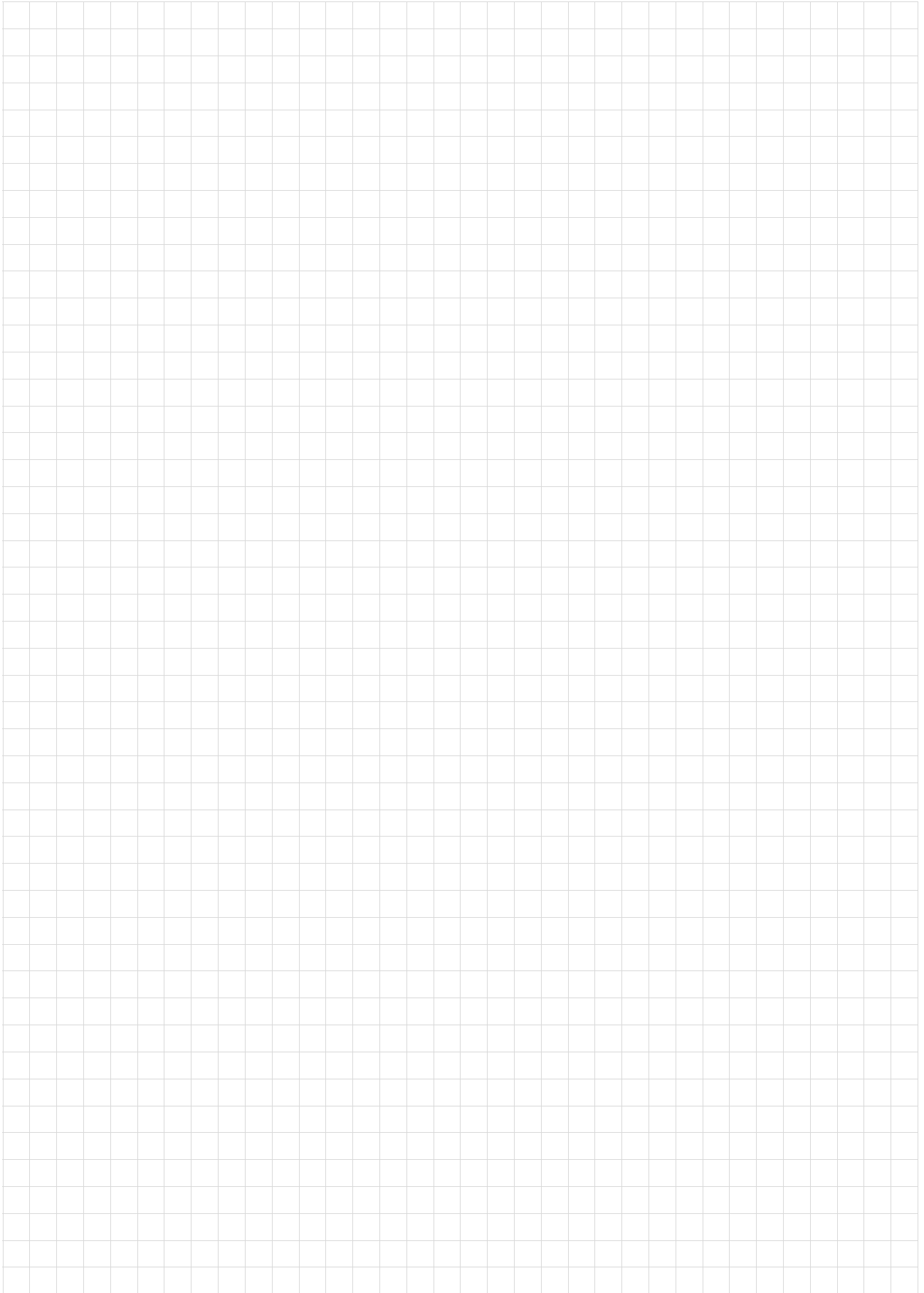
$n_N$ rpm	Motor	$L_1$ mH	$R_1$ $\Omega$	$U_{p0cold}$ V	$\Delta LB^{1)}$ mm	$m_{bmot}$ kg	$J_{bmot}$ $10^{-4}kgm^2$	$M_{B1}$ Nm	$M_{B2}$ Nm	$\Delta LBS^{2)}$ mm
3000	CMPZ71S	5	485	49.5	62.6	11.2	11.04	14	10	58.5
	CMPZ71M	3.15	260	48.7	62.6	12.6	12.09	20	14	58.5
	CMPZ71L	2.3	162	53.7	62.6	15.6	14.19	20	14	58.5
	CMPZ80S	2.3	166	51.5	75.3	20.8	30.95	28	20	62.4
	CMPZ80M	1.64	113	53.9	75.3	24.5	34.07	40	28	62.4
	CMPZ80L	1.11	73	57	75.3	29.4	40.28	40	28	62.4
	CMPZ100S	1.29	66	50.5	96.2	34.7	84.19	55	40	61.1
	CMPZ100M	0.9	44.5	52.1	96.2	39.7	91.1	80	55	61.1
4500	CMPZ71S	2.3	225	33.4	62.6	11.2	11.04	14	10	58.5
	CMPZ71M	1.46	127	33.1	62.6	12.6	12.09	20	14	58.5
	CMPZ80S	0.98	70	33.7	75.3	20.8	30.95	28	20	62.4
	CMPZ80M	0.73	51	35.9	75.3	24.5	34.07	40	28	62.4
	CMPZ100S	0.51	27	31.7	96.2	34.7	84.19	55	40	61.1
6000	CMPZ71S	1.32	124	25.3	62.6	11.2	11.04	14	10	58.5
	CMPZ80S	0.58	41.5	25.7	75.3	–	–	–	–	–

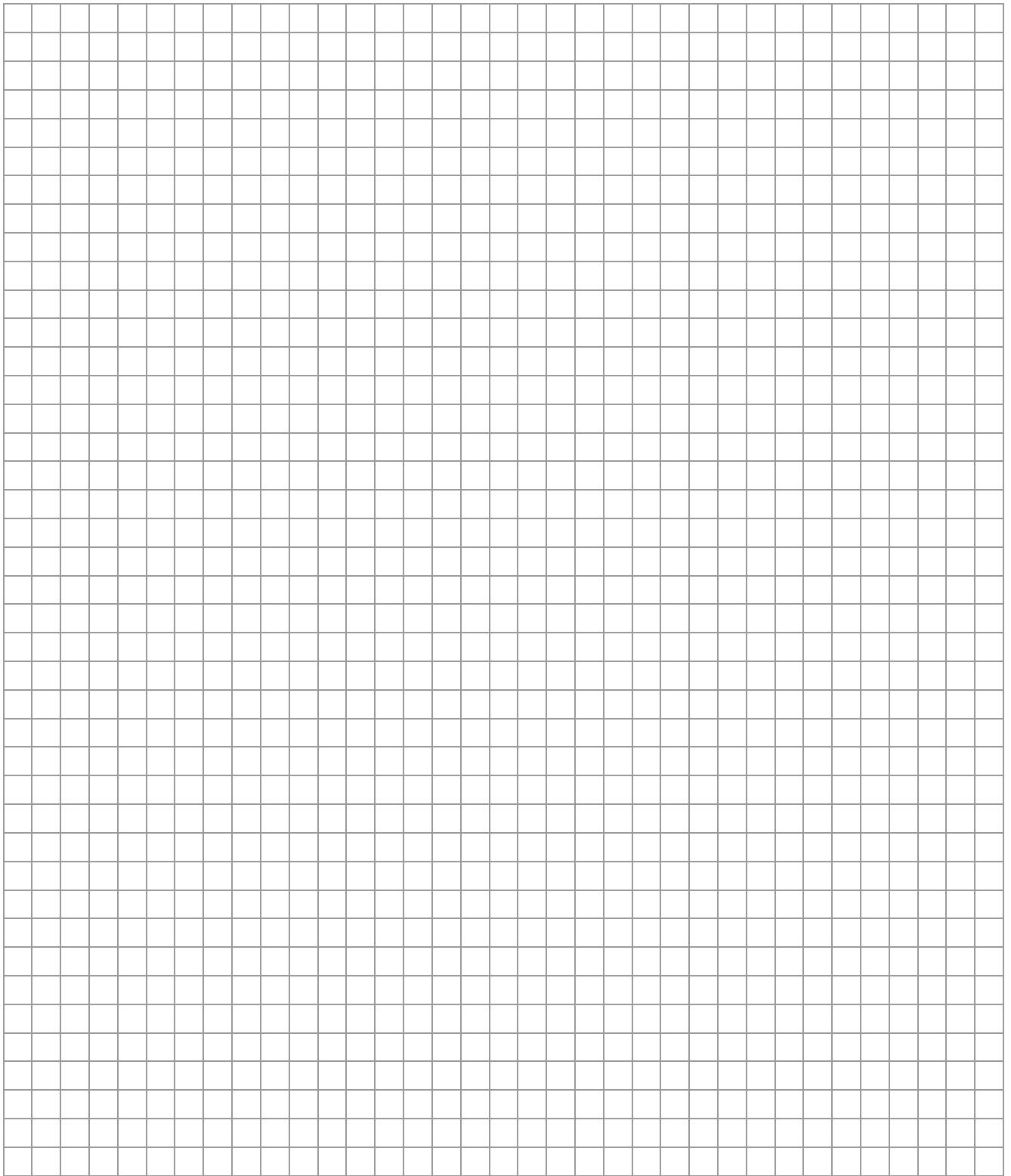
1) Additional length of the CMPZ.. motor compared with the corresponding CMP.. motor

2) Additional length of the CMPZ../BY brakemotor compared with the corresponding CMP../BP brakemotor











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