

## 15 Abbreviation Key and Index

### 15.1 Abbreviation Key

a, b, f	Constants for converting overhung loads	[mm]
c	Constants for converting overhung loads	[Nmm]
cosφ	Power factor of motor	
F <sub>A</sub>	Axial force acting on the output shaft	[N]
F <sub>A_Zug</sub>	Tensile force acting on the output shaft	[N]
F <sub>A_Druck</sub>	Pressure force acting on the output shaft	[N]
f <sub>Eck</sub>	Base frequency	[Hz]
f <sub>B</sub>	Service factor	
f <sub>Grenz</sub>	Maximum operating frequency	[Hz]
f <sub>Netz</sub>	Supply frequency	[Hz]
F <sub>R</sub>	Overhung load on the output shaft	[N]
f <sub>T</sub> , f <sub>H</sub>	Power reduction factors of the motor	
f <sub>Z</sub>	Transmission element factor for calculating overhung load	
H	Installation altitude	[m ü. NN]
η	Forward efficiency	
η'	Back-driving efficiency	
η <sub>75% / 100%</sub>	Motor efficiency at 75% / 100% rated torque	
η <sub>ges</sub>	Total efficiency	
I <sub>A</sub> /I <sub>N</sub>	Ratio starting current / rated current of motor	
I <sub>eff</sub>	Effective current	[A]
I <sub>N</sub>	Rated current	[A]
IP..	Enclosure	
i <sub>ges</sub>	Gear ratios in total	
i <sub>sch</sub>	Gear ratio of the worm gear stage	
ϑ <sub>Umg</sub>	Ambient temperature	[°C]
J <sub>Last</sub>	Mass moment of inertia to be driven	[10 <sup>-4</sup> kgm <sup>2</sup> ]
J <sub>Mot</sub>	Mass moment of inertia of motor	[10 <sup>-4</sup> kgm <sup>2</sup> ]
J <sub>X</sub>	Mass moment of inertia reduced to motor shaft	[10 <sup>-4</sup> kgm <sup>2</sup> ]
J <sub>Z</sub>	Mass moment of inertia of heavy fan	[10 <sup>-4</sup> kgm <sup>2</sup> ]
M <sub>a</sub>	Output torque	[Nm]
M <sub>B</sub>	Braking torque	[Nm]
M <sub>H</sub> /M <sub>N</sub>	Ratio acceleration torque / rated torque motor	
M <sub>A</sub> /M <sub>N</sub>	Ratio starting torque / rated torque motor	
n <sub>a</sub>	Output speed	[1/min]
n <sub>e</sub>	Input speed	[1/min]
n <sub>Eck</sub>	Base speed	[1/min]
n <sub>M</sub>	Motor speed	[1/min]
n <sub>N</sub>	Rated speed	[1/min]
P <sub>a</sub>	Output power	[kW]
P <sub>e</sub>	Mathematical input power of gear unit	[kW]
P <sub>N</sub>	Rated power	[kW]
S.., %ED	Duty type and relative cyclic duration factor cdf	
T	Cycle duration	[min]
t <sub>1</sub>	Response time of motor brake	[10 <sup>-3</sup> s]
t <sub>2</sub>	Reaction time of motor brake	[10 <sup>-3</sup> s]
U <sub>Bremse</sub>	Operating voltage of brake	[V]
U <sub>Mot</sub>	Operating voltage of motor	[V]
U <sub>N</sub>	Rated voltage	[V]
U <sub>Netz</sub>	Supply voltage	[V]
Z	Starting frequency	[1/h], [c/h]
Z <sub>0</sub>	No-load starting frequency	[1/h], [c/h]



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	<b>Centre Pays de Loire</b>	SEW-USOCOME 9, rue des Erables F-37540 Saint Cyr sur Loire	Tel. +33 2 47 41 33 23 Fax +33 2 47 41 34 03
	<b>Centre Auvergne</b>	SEW-USOCOME 27, avenue du Colombier F-19150 Laguenne	Tel. +33 5 55 20 12 10 Fax +33 5 55 20 12 11
	<b>Champagne</b>	SEW-USOCOME 2, chemin des Suivots F-10120 Saint André les Vergers	Tel. +33 3 25 79 63 24 Fax +33 3 25 79 63 25
	<b>Lyon Nord-Est</b>	SEW-USOCOME Parc d'Affaires Roosevelt Rue Jacques Tati F-69120 Vaulx en Velin	Tel. +33 4 72 15 37 03 Fax +33 4 72 15 37 15
	<b>Lyon Ouest</b>	SEW-USOCOME Parc d'Affaires Roosevelt Rue Jacques Tati F-69120 Vaulx en Velin	Tel. +33 4 72 15 37 04 Fax +33 4 72 15 37 15
	<b>Lyon Sud-Est</b>	SEW-USOCOME 4, Montée du Pavé F-26750 Génissieux	Tel. +33 4 75 05 65 95 Fax +33 4 75 05 65 96
	<b>Nord</b>	SEW-USOCOME 348, rue du Calvaire F-59213 Bermerain Cidex 102	Tel. +33 3 27 27 07 88 Fax +33 3 27 27 24 41



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<b>Paris Picardie</b>	SEW-USOCOME 25 bis, rue Kléber F-92300 Levallois Perret	Tel. +33 1 41 05 92 74 Fax +33 1 41 05 92 75	
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<b>Brazil</b>			
<b>Production Sales Service</b>	<b>Sao Paulo</b>	SEW-EURODRIVE Brasil Ltda. Avenida Amâncio Gaioli, 50 Caixa Postal: 201-07111-970 Guarulhos/SP - Cep.: 07251-250	Tel. +55 11 6489-9133 Fax +55 11 6480-3328 <a href="http://www.sew.com.br">http://www.sew.com.br</a> <a href="mailto:sew@sew.com.br">sew@sew.com.br</a>
	Additional addresses for service in Brazil provided on request!		
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	<b>Vancouver</b>	SEW-EURODRIVE CO. OF CANADA LTD. 7188 Honeyman Street Delta. B.C. V4G 1 E2	Tel. +1 604 946-5535 Fax +1 604 946-2513 <a href="mailto:b.wake@sew-eurodrive.ca">b.wake@sew-eurodrive.ca</a>
	<b>Montreal</b>	SEW-EURODRIVE CO. OF CANADA LTD. 2555 Rue Leger Street LaSalle, Quebec H8N 2V9	Tel. +1 514 367-1124 Fax +1 514 367-3677 <a href="mailto:a.peluso@sew-eurodrive.ca">a.peluso@sew-eurodrive.ca</a>
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**China**

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**Colombia**

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**Croatia**

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**Czech Republic**

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	<b>Odense</b>	SEW-EURODRIVEA/S Lindelyvej 29, Nr. Søby DK-5792 Arslav	Tel. +45 65 9020-70 Fax +45 65 9023-09
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	<b>Scotland</b>	SEW-EURODRIVE Ltd. Scottish Office No 37 Enterprise House Springkerse Business Park GB-Stirling FK7 7UF Scotland	Tel. +44 17 8647-8730 Fax +44 17 8645-0223

**Greece**

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**India**

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**Ivory Coast**

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**Japan**

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	<b>Osaka</b>	SEW-EURODRIVE JAPAN CO., LTD. B-Space EIRAI Bldg., 3rd Floor 1-6-9 Kyoumachiibori, Nishi-ku, Osaka, 550-0003	Tel. +81 6 6444--8330 Fax +81 6 6444--8338 sewosaka@crocus.ocn.ne.jp
	<b>Tokyo</b>	SEW-EURODRIVE JAPAN CO., LTD. Izumi-Bldg. 5 F 3-2-15 Misaki-cho Chiyoda-ku, Tokyo 101-0061	Tel. +81 3 3239-0469 Fax +81 3 3239-0943 sewtokyo@basil.ocn.ne.jp

**Korea**

<b>Assembly Sales Service</b>	<b>Ansan-City</b>	SEW-EURODRIVE KOREA CO., LTD. B 601-4, Banweol Industrial Estate Unit 1048-4, Shingil-Dong Ansan 425-120	Tel. +82 31 492-8051 Fax +82 31 492-8056 master@sew-korea.co.kr
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	<b>DaeJeon</b>	SEW-EURODRIVE KOREA Co., Ltd. No. 2017, Hongin officetel 536-9, Bongmyung-dong, Yusung-ku Daejeon 305-301	Tel. +82 42 828-6461 Fax +82 42 828-6463 sewdaejeon@netsgo.com
	<b>Kwangju</b>	SEW-EURODRIVE KOREA Co., Ltd. 4fl., Shinhyun B/D 96-16 Unam-dong, Buk-ku Kwangju 500-170	Tel. +82 62 511-9172 Fax +82 62 511-9174 sekwangju@netsgo.com
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	<b>Kuching</b>	SEW-EURODRIVE Sdn. Bhd. Lot 268, Section 9 KTLD Lorong 9, Jalan Satok 93400 Kuching, Sarawak East Malaysia	Tel. +60 82 232380 Fax +60 82 242380
	<b>Penang</b>	SEW-EURODRIVE Sdn. Bhd. No. 38, Jalan Bawal Kimsar Garden 13700 Prai, Penang	Tel. +60 4 3999349 Fax +60 4 3999348 <a href="mailto:seweurodrive@po.jaring.my">seweurodrive@po.jaring.my</a>



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	<b>Queretaro</b>	SEW-EURODRIVE, Sales and Distribution, S. A. de C. V. Privada Tequisquiapan No. 102 Parque Ind. Queretaro C. P. 76220 Queretaro, Mexico	Tel. +52 442 1030-300 Fax +52 442 1030-301 scmexico@seweurodrive.com.mx
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<b>Sales</b>	<b>Casablanca</b>	S. R. M. Société de Réalisations Mécaniques 5, rue Emir Abdelkader 05 Casablanca	Tel. +212 2 6186-69 + 6186-70 + 6186-71 Fax +212 2 6215-88 srm@marocnet.net.ma
<b>Netherlands</b>			
<b>Assembly Sales Service</b>	<b>Rotterdam</b>	VECTOR Aandrijftechniek B.V. Industrieweg 175 NL-3044 AS Rotterdam Postbus 10085 NL-3004 AB Rotterdam	Tel. +31 10 4463-700 Fax +31 10 4155-552 <a href="http://www.vector.nu">http://www.vector.nu</a> <a href="mailto:info@vector.nu">info@vector.nu</a>
<b>New Zealand</b>			
<b>Assembly Sales Service</b>	<b>Auckland</b>	SEW-EURODRIVE NEW ZEALAND LTD. P.O. Box 58-428 82 Greenmount drive East Tamaki Auckland	Tel. +64 9 2745627 Fax +64 9 2740165 <a href="mailto:sales@sew-eurodrive.co.nz">sales@sew-eurodrive.co.nz</a>
	<b>Christchurch</b>	SEW-EURODRIVE NEW ZEALAND LTD. 10 Settlers Crescent, Ferrymead Christchurch	Tel. +64 3 384-6251 Fax +64 3 384-6455 <a href="mailto:sales@sew-eurodrive.co.nz">sales@sew-eurodrive.co.nz</a>
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	<b>Asunción</b>	EQUIS S. R. L. Avda. Madame Lynch y Sucre Asunción	Tel. +595 21 6721-48 Fax +595 21 6721-50 <a href="mailto:equisa@uninet.com.py">equisa@uninet.com.py</a>
<b>Peru</b>			
<b>Assembly Sales Service</b>	<b>Lima</b>	SEW DEL PERU MOTORES REDUCTORES S.A.C. Los Calderos <FmSdata>[Idot ] 120-124 Urbanizacion Industrial Vulcano, ATE, Lima	Tel. +51 1 3495280 Fax +51 1 3493002 <a href="mailto:sewperu@sew-eurodrive.com.pe">sewperu@sew-eurodrive.com.pe</a>
<b>Philippines</b>			
<b>Technical Office</b>	<b>Manila</b>	SEW-EURODRIVE Pte Ltd Manila Liaison Office Suite 110, Ground Floor Comfoods Building Senator Gil Puyat Avenue 1200 Makati City	Tel. +63 2 894275254 Fax +63 2 8942744 <a href="mailto:sewmla@i-next.net">sewmla@i-next.net</a>



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<b>South Africa</b>			
<b>Assembly Sales Service</b>	<b>Johannesburg</b>	SEW-EURODRIVE (PROPRIETARY) LIMITED Eurodrive House Cnr. Adcock Ingram and Aerodrome Roads Aeroton Ext. 2 Johannesburg 2013 P.O.Box 90004 Bertsham 2013	Tel. +27 11 248-7000 Fax +27 11 494-2311 ljansen@sew.co.za
	<b>Capetown</b>	SEW-EURODRIVE (PROPRIETARY) LIMITED Rainbow Park Cnr. Racecourse & Omuramba Road Montague Gardens Cape Town P.O.Box 36556 Chempet 7442 Cape Town	Tel. +27 21 552-9820 Fax +27 21 552-9830 Telex 576 062 dswanepoel@sew.co.za
	<b>Durban</b>	SEW-EURODRIVE (PROPRIETARY) LIMITED 2 Monaceo Place Pinetown Durban P.O. Box 10433, Ashwood 3605	Tel. +27 31 700-3451 Fax +27 31 700-3847 dtait@sew.co.za
	<b>Nelspruit</b>	SEW-EURODRIVE (PTY) LTD. 7 Christie Crescent Vintonia P.O.Box 1942 Nelspruit 1200	Tel. +27 13 752-8007 Fax +27 13 752-8008 robermeyer@sew.co.za
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	<b>Richards Bay</b>	SEW-EURODRIVE PTY LTD. 25 Eagle Industrial Park Alton Richards Bay P.O. Box 458 Richards Bay 3900	Tel. +27 35 797-3805 Fax +27 35 797-3819 dtait@sew.co.za
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<b>Technical Offices</b>	<b>Barcelona</b>	Delegación Barcelona Avenida Francesc Maciá 40-44 Oficina 3.1 E-08206 Sabadell (Barcelona)	Tel. +34 9 37 162200 Fax +34 9 37 233007
	<b>Lugo</b>	Delegación Noroeste Apartado, 1003 E-27080 Lugo	Tel. +34 6 3940 3348 Fax +34 9 8220 2934
	<b>Madrid</b>	Delegación Madrid Gran Vía. 48-2º A-D E-28220 Majadahonda (Madrid)	Tel. +34 9 1634 2250 Fax +34 9 1634 0899
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	<b>Colombo 4</b>	SM International (Pte) Ltd 254, Galle Raod Colombo 4, Sri Lanka	Tel. +94 1 2584887 Fax +94 1 2582981
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	<b>Malmö</b>	SEW-EURODRIVE AB Borggatan 5 S-21124 Malmö	Tel. +46 40 68064-80 Fax +46 40 68064-93
	<b>Stockholm</b>	SEW-EURODRIVE AB Björkholmsvägen 10 S-14125 Huddinge	Tel. +46 8 44986-80 Fax +46 8 44986-93
	<b>Skellefteå</b>	SEW-EURODRIVE AB Trädgårdsgatan 8 S-93131 Skellefteå	Tel. +46 910 7153-80 Fax +46 910 7153-93
Switzerland			
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	<b>Luzern</b>	Beat Lütföf Baumacher 11 6244 Nebikon	Tel. +41 6 275647-80 Fax +41 6 275647-86
	<b>Zürich</b>	René Rothenbühler Nörgelbach 7 8493 Saland	Tel. +41 5 238631-50 Fax +41 5 238632-13
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	<b>Taipei</b>	Ting Shou Trading Co., Ltd. 6F-3, No. 267, Sec. 2 Tung Hwa South Road, Taipei	Tel. +886 2 27383535 Fax +886 2 27368268 Telex 27 245 <a href="mailto:nestnet@ms6.hinet.net">nestnet@ms6.hinet.net</a>
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	<b>Izmir</b>	SEW-EURODRIVE Hareket Sistemleri Ticaret Ltd. Sirketi 1203/11 Sok. No. 4/613 Hasan Atli Is Merkezi TR-35110 Yenisehir-Izmir	Tel. +90 232 4696264 Fax +90 232 4336105

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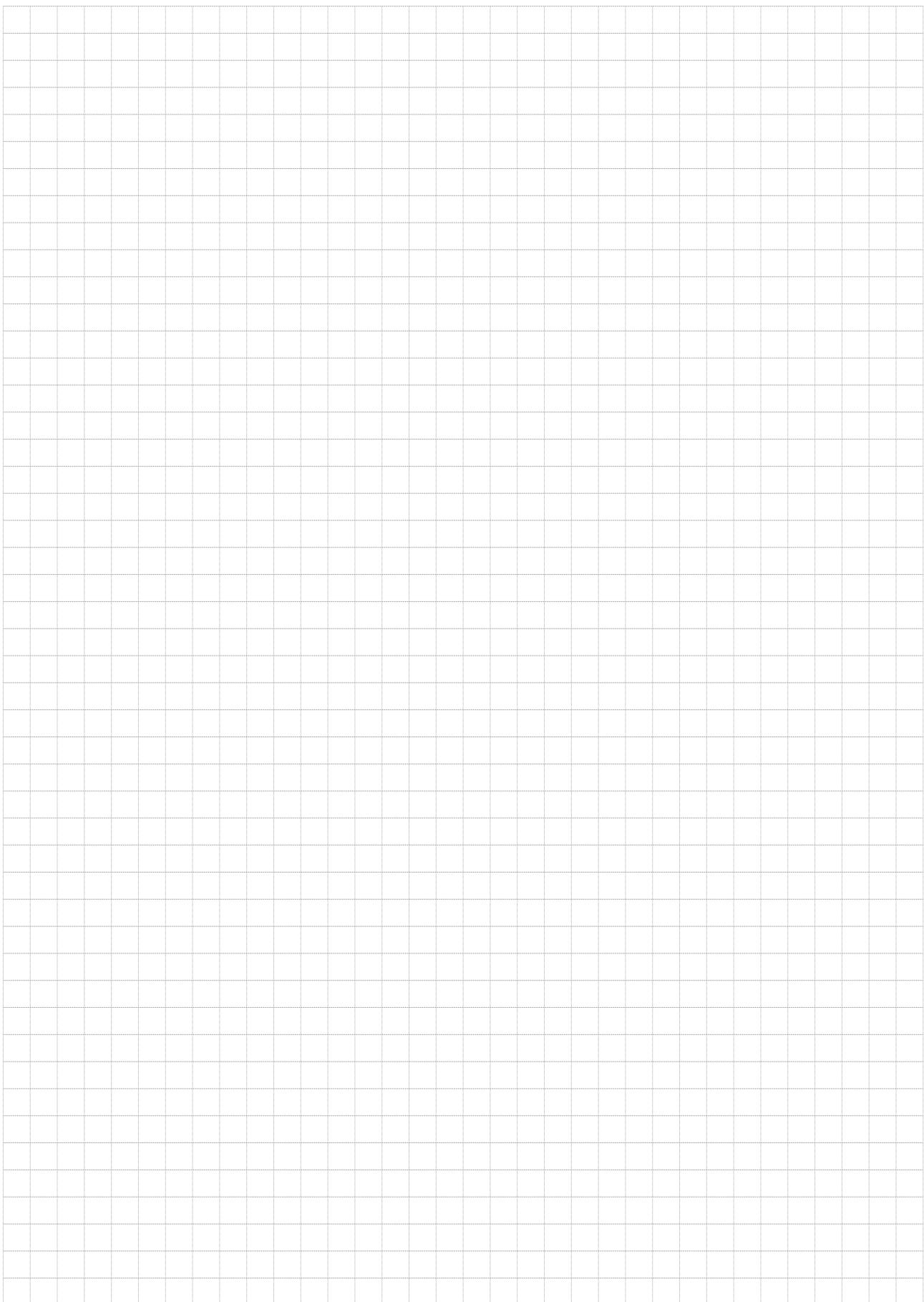
**USA**

<b>Production Assembly Sales Service</b>	<b>Greenville</b>	SEW-EURODRIVE INC. 1295 Old Spartanburg Highway P.O. Box 518 Lyman, S.C. 29365	Tel. +1 864 439-7537 Fax Sales +1 864 439-7830 Fax Manuf. +1 864 439-9948 Fax Ass. +1 864 439-0566 Telex 805 550 <a href="http://www.seweurodrive.com">http://www.seweurodrive.com</a> cslyman@seweurodrive.com
<b>Assembly Sales Service</b>	<b>San Francisco</b>	SEW-EURODRIVE INC. 30599 San Antonio St. Hayward, California 94544-7101	Tel. +1 510 487-3560 Fax +1 510 487-6381 cshayward@seweurodrive.com
	<b>Philadelphia/PA</b>	SEW-EURODRIVE INC. Pureland Ind. Complex 2107 High Hill Road, P.O. Box 481 Bridgeport, New Jersey 08014	Tel. +1 856 467-2277 Fax +1 856 467-3792 csbridgeport@seweurodrive.com
	<b>Dayton</b>	SEW-EURODRIVE INC. 2001 West Main Street Troy, Ohio 45373	Tel. +1 937 335-0036 Fax +1 937 440-3799 cstroy@seweurodrive.com
	<b>Dallas</b>	SEW-EURODRIVE INC. 3950 Platinum Way Dallas, Texas 75237	Tel. +1 214 330-4824 Fax +1 214 330-4724 csdallas@seweurodrive.com

Additional addresses for service in the USA provided on request!

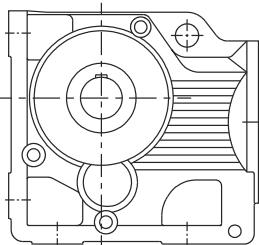
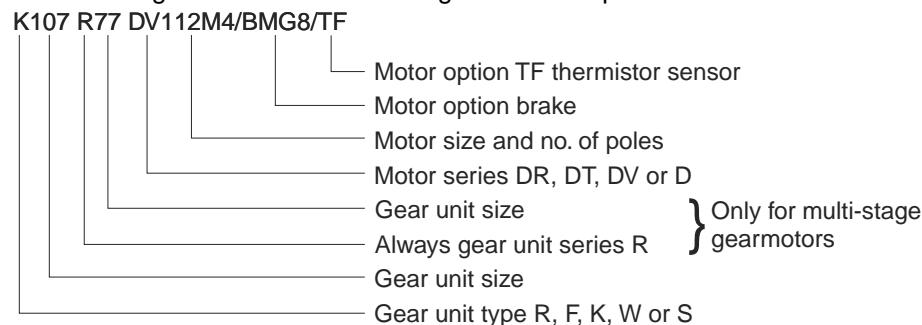
**Venezuela**

<b>Assembly Sales Service</b>	<b>Valencia</b>	SEW-EURODRIVE Venezuela S.A. Av. Norte Sur No. 3, Galpon 84-319 Zona Industrial Municipal Norte Valencia, Estado Carabobo	Tel. +58 241 832-9804 Fax +58 241 838-6275 sewventas@cantv.net sewfinanzas@cantv.net
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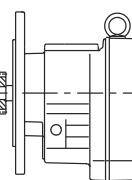


## Order information for AC gearmotors

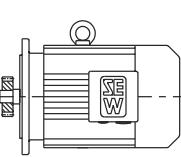
The following diagram shows an example of the technical information required for placing an order for gearmotors. The data should be given in the order starting from the output side of the unit.



K107



R77



DV112M4/TF

03348AEN

The following data is also required depending on gear unit series and type:

Type (examples)	Mounting position	Shaft at	Flange at	Position of terminal box	Cable entry	Direction of output rotation
K47DT71D4/RS	M2	A	-	0°	"X"	Rechts
SF77DV100L4	M6	AB	AB	90°	"3"	-
KA97DV132M4	M4	B	-	270°	"2"	-
KH107DV160L4	M1	A	-	180°	"3"	-
WF20DT71D4	-	A	A	0°	"X"	-
KAF67A	M3	A	B	-	-	-

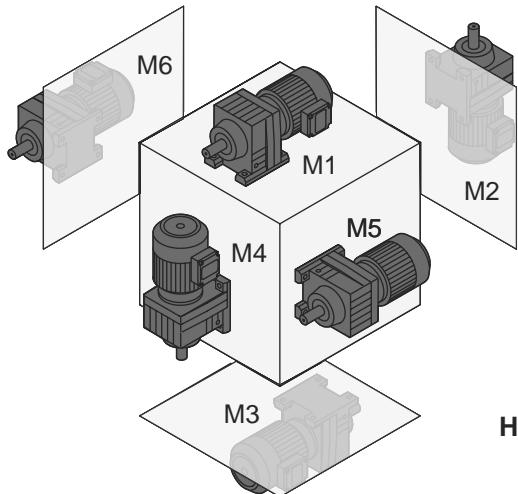
## Drive selection using the EKAT electronic catalog from SEW-EURODRIVE

SEW offers the EKAT electronic catalog for the comfortable selection of drive components. You will enter the necessary data for drive design in a menu-guided process to be given the selected drive. You can also select the matching inverter with the EKAT.

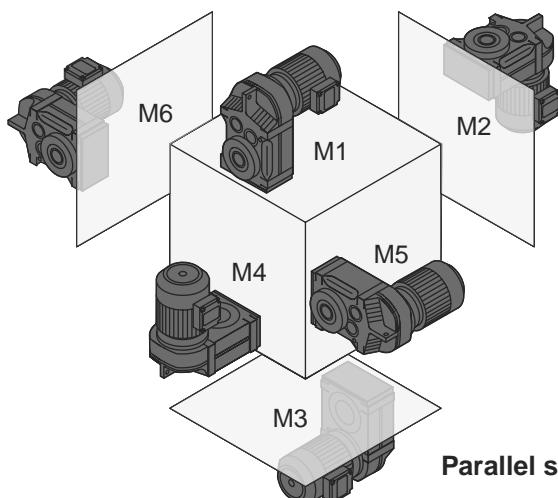
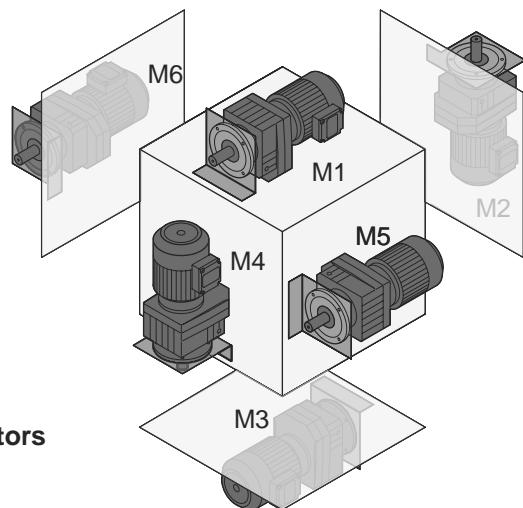
### AC gearmotor

03345AEN

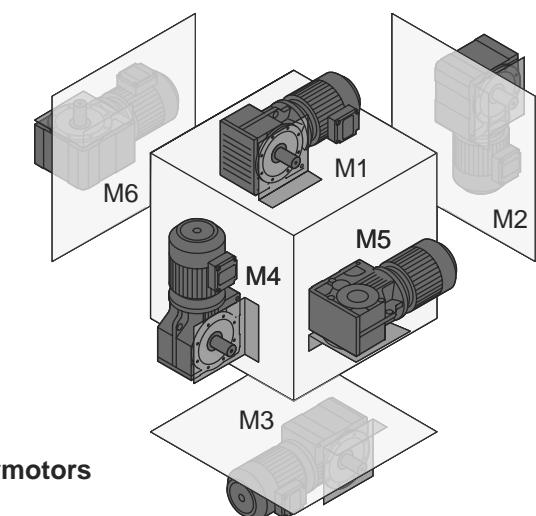
## Overview of mounting positions\*



Helical gearmotors



Parallel shaft helical gearmotors



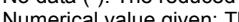
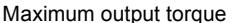
Right-angle gearmotors

\* Detailed information on the mounting positions for SEW gearmotors can be found inside the catalog.

03343AEN

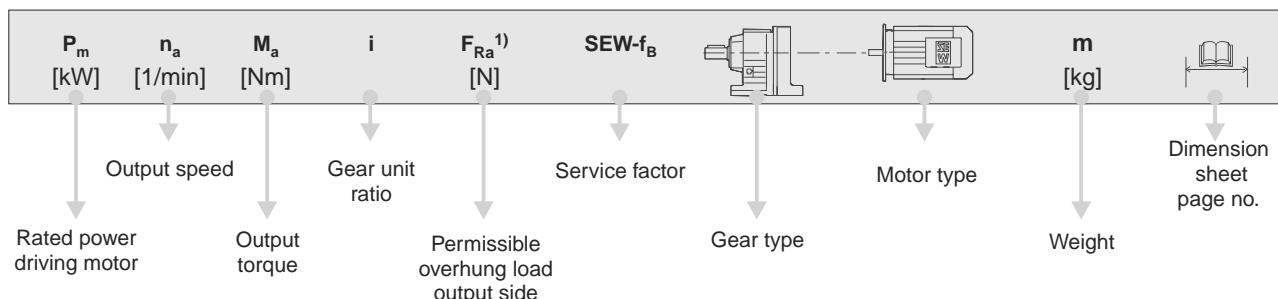
## Possible physical combinations

R57, $n_e = 1400$ 1/min										450 Nm
$n_a$ [1/min]	$M_{a\max}$ [Nm]	$F_{Ra}$ [N]	$\Phi(R)$ [']	i	DR63 DT71	DT80	DT90	DV100	DV112	DV132S DV132M
 2										
53	450	4750	6	26.31						
56	450	4640	6	24.99*						
64	450	4370	7	21.93						
75	450	4050	7	18.60*						

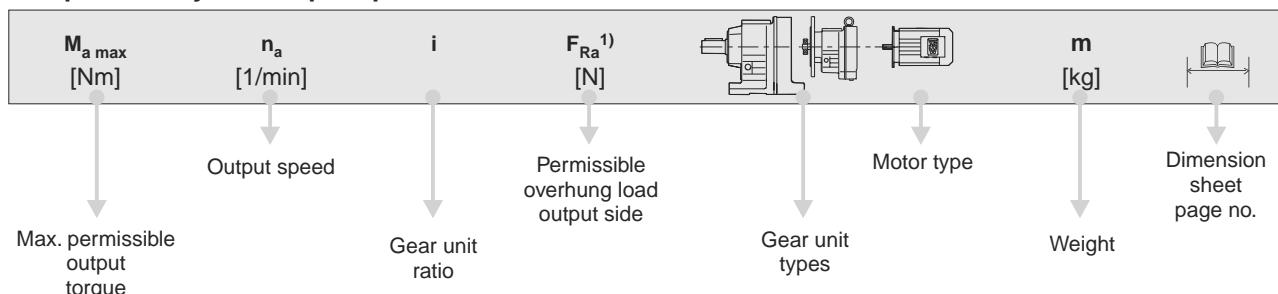
 Gear unit reduction ratio  
 No data (-): The reduced backlash (= /R) option is not possible for this i value.  
 Numerical value given: The reduced backlash (= /R) option is possible; the numerical value specifies the circumferential backlash of the reduced backlash version in angular minutes ['].  
 Permitted overhung load at maximum output torque (foot-mounted gear unit with solid shaft)  
 Maximum output torque  
 Output speed

Combination with the motor in the header is possible.
Combination with the motor in the header is not possible.

## Structure of gearmotors selection table



## For particularly low output speeds:



03514BEN

### Legend

\* Finite gear ratios

1) Overhung loads for foot-mounted gear units with solid shaft

### Note

The motor power of drive units for particularly low output speeds (multi-stage gearmotors) must be limited in relation to the maximum permissible output torque of the gear unit.

## Notes in the dimension sheets for gearmotors

Scope of delivery
 = Standard parts delivered by SEW
 = Standard parts not delivered by SEW

Multiple-spline shafts
$D_m$ = Measuring roller diameter
$M_e$ = Test dimension

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