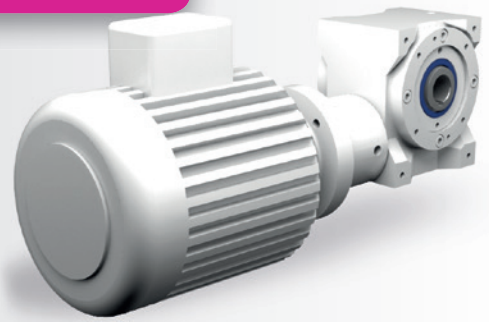


10.4 Type SLM – Type SL with motor (gearbox motor)



10.4.1 Features

Nominal gear ratios: $i = 10:1$ to $83:1$
 Maximum output torque: 1765 Nm
 5 sizes, centre-to-centre distance of 040 to 100 mm
 Low-backlash construction < 6 angular minutes possible
 With mounted IEC standard motor
 Positive coupling between motor and gearbox
 Housing made of grey cast iron

10.4.2 Models

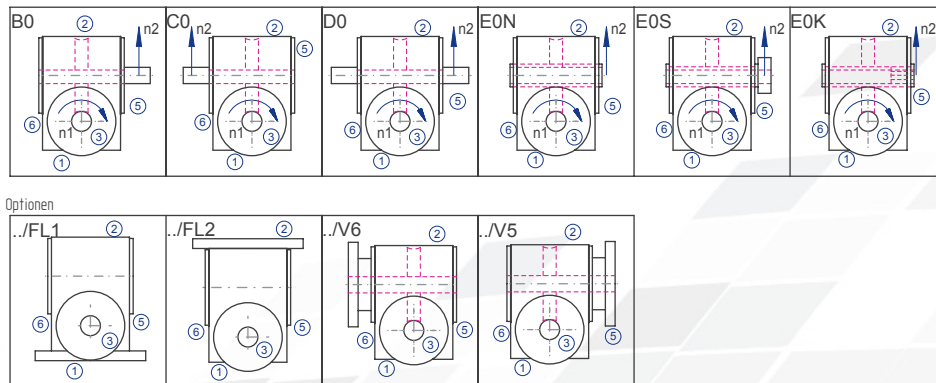


Figure 10.4.2-1; Models

10.4.3 Gearbox sides

The example shows the Model B0 without motor

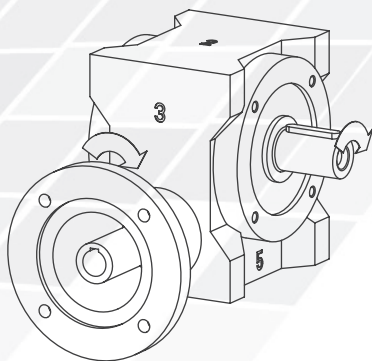


Figure 10.4.3-1; Gearbox sides

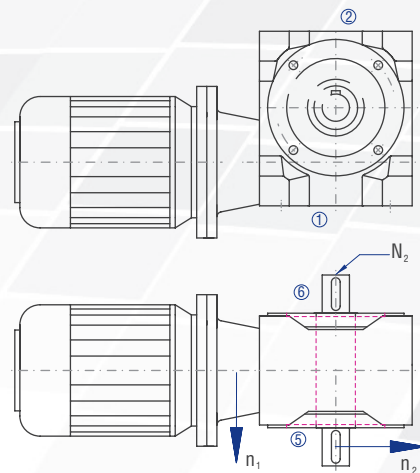


Figure 10.4.3-2; Shaft designations

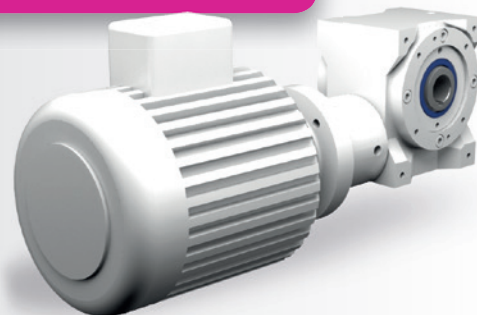
10.4.4 Order code

The order code reflects the customer specifications. Example:

Type	Size	Gear ratio	Model	Fixing side	Installation position	Speed n_2	Design
SLM	063	10:1	B0-	1.	1-	150	/0000
Description	Centre-to-centre distance Table 10.4.5-1	Table 10.4.5-1	Figure 10.4.2-1; Models	Gearbox side on which fixing is made Table 9.2.3-1; Figure 4.3.1-1 Gearbox sides	Side directed downwards; Figure 4.3.1-1 Gearbox sides	Slowly rotating shaft; Table 10.4.5-1	Standard
	DS 090	-4	/00	-5			
	Motor type	Number of poles	Additional version	Connection box to the side			

Motor type: DS 090; three-phase motor
 Number of poles: 4; speed of approx. 1500 rpm (6000/4) at 50 Hz
 Connection box: 5; the motor connection box points to the gearbox side 5

10.4.6 Type SLM 040 – Type SL with motor (gearbox motor)



Characteristics

Characteristic	Standard	Option
Toothing	Hardened and ground worm shaft / bronze worm gear	See chapter 9.2.1
Gear ratio	10:1 to 83:1	
Housing / Flanges	Grey cast iron	
Threaded mounting hole	On gearbox side 1 and on the flanges	See chapter 9.2.3
Shaft	Material 1 C45, shaft ends greased Fit with ISO j6 tolerance with parallel keyway: according to DIN 6885 Sheet 1	See chapter 4.6.2
Hollow shaft	Material 1 C45, shafts greased Fit with ISO H7 tolerance with parallel keyway: according to DIN 6885 Sheet 1	See chapter 4.6.3
Radial shaft seal ring	NBR, form A	See chapter 4.8
Ambient temperature	-10°C to +90°C. The values of the performance tables are valid for +20°C	See chapter 4.9.3
Circumferential backlash	< 30 arcmin	See chapter 9.2.10
Protection class	IP 54	See chapter 4.5
Corrosion protection	Prime coat; layer thickness > 40 µm	See chapter 4.4.1
Bearing life L10h	more than 15,000h	See chapter 4.9.1
Oil change intervals	Not required if the oil temperature is kept < 90°C The lifetime of the bearings can be increased by the factor 1.5 if the oil is changed after the first 500 service hours and then every 5000 service hours.	See chapter 9.2.8
Lubricants	Synthetic lubricants	See chapter 9.2.8
Motor	IEC standard motor in the prescribed efficiency class	

For the dimensions of the worm gearbox, please refer to chapter 9.3.6 Standard worm gearboxes, page 187

Performance data

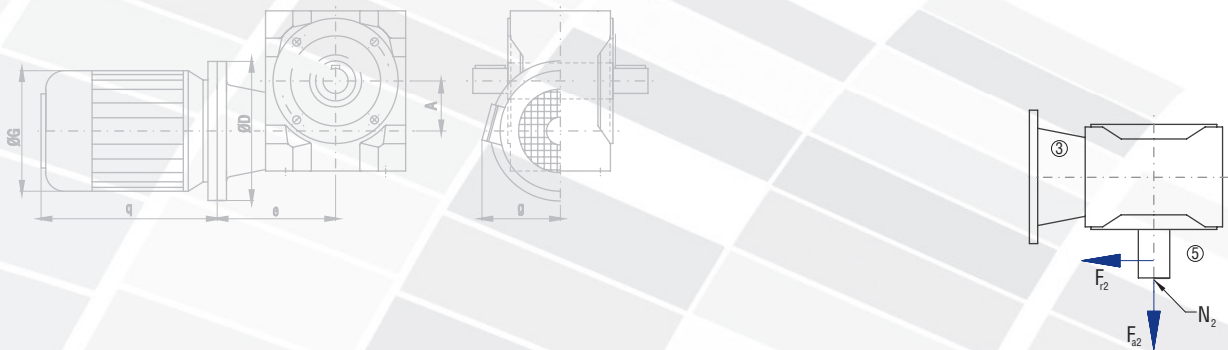
P ₁ [kW]	n ₂ [1/min]	T ₂ [Nm]	T _{2N} [Nm]	T _{2 max} [Nm]	Gearbox size	i [-]	IEC-Motor
0,18	275	5,7	39	77	040	9,75:1	063A-2
	137	11,3	43	77	040	9,75:1	063B-4
	69	20,4	50	90	040	19,5:1	063B-4
	46	27,3	50	107	040	29:1	063B-4
	34	35,4	56	99	040	39:1	063B-4
	31	38,8	57	107	040	29:1	071A-6
	26	43,0	46	87	040	52:1	063B-4
	23	50,1	63	99	040	39:1	071A-6
0,25	277	7,8	39	77	040	9,75:1	063B-2
	139	15,5	43	77	040	9,75:1	071A-4
	70	28,0	50	90	040	19,5:1	071A-4
	47	37,1	50	107	040	29:1	071A-4
	46	41,5	53	90	040	19,5:1	071A-4
	35	47,8	56	99	040	39:1	071A-4
	31	53,9	57	107	040	29:1	071B-6

P ₁ [kW]	n ₂ [1/min]	T ₂ [Nm]	T _{2N} [Nm]	T _{2 max} [Nm]	Gearbox size	i [-]	IEC-Motor
0,37	288	11,2	39	77	040	9,75:1	071A-2
	139	22,9	43	77	040	9,75:1	071B-4
	70	41,4	50	90	040	19,5:1	071B-4
0,55	289	16,5	39	77	040	9,75:1	071B-2

Permissible radial force F_{r2} and axial force F_{a2} on shaft N₂

n ₂ [rpm]	200		125		75		50		30		10	
T ₂ [Nm]	F _r [N]	F _a [N]	F _r [N]	F _a [N]	F _r [N]	F _a [N]	F _r [N]	F _a [N]	F _r [N]	F _a [N]	F _r [N]	F _a [N]
< 80	970	485	1250	625	1380	690	1600	800	1800	900	2500	1250

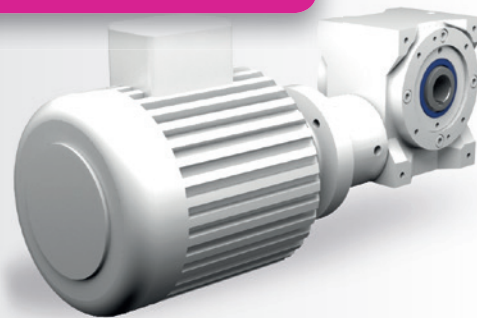
The mass inertia moment and the weight of the motor depend on the manufacturer. Please enquire the values of the overall system. For the dimensions of the worm gearbox, please refer to chapter 8.3 Worm gearboxes



IEC Motor	D [mm]	G [mm]	g [mm]	q [mm]	q ₁ [mm]	e [mm]	A [mm]
063	120	125	95	189	211	121	40
071	105	148	115	208	228	121	40

The value q₁ applies to braking motors

10.4.7 Type SLM 050 – Type SL with motor (gearbox motor)



Characteristics

Characteristic	Standard	Option
Toothing	Hardened and ground worm shaft / bronze worm gear	See chapter 9.2.1
Gear ratio	10:1 to 83:1	
Housing / Flanges	Grey cast iron	
Threaded mounting hole	On gearbox side 1 and on the flanges	See chapter 9.2.3
Shaft	Material 1 C45, shaft ends greased Fit with ISO j6 tolerance with parallel keyway: according to DIN 6885 Sheet 1	See chapter 4.6.2
Hollow shaft	Material 1 C45, shafts greased Fit with ISO H7 tolerance with parallel keyway: according to DIN 6885 Sheet 1	See chapter 4.6.3
Radial shaft seal ring	NBR, form A	See chapter 4.8
Ambient temperature	-10°C to +90°C. The values of the performance tables are valid for +20°C	See chapter 4.9.3
Circumferential backlash	< 30 arcmin	See chapter 9.2.10
Protection classes	IP 54	See chapter 4.5
Corrosion protection	Prime coat; layer thickness > 40 µm	See chapter 4.4.1
Bearing life L10h	more than 15,000h	See chapter 4.9.1
Oil change intervals	Not required if the oil temperature is kept < 90°C The lifetime of the bearings can be increased by the factor 1.5 if the oil is changed after the first 500 service hours and then every 5000 service hours.	See chapter 9.2.8
Lubricants	Synthetic lubricants	See chapter 9.2.8
Motor	IEC standard motor in the prescribed efficiency class	

For the dimensions of the worm gearbox, please refer to chapter 9.3.7 Standard worm gearboxes, page 191

Performance data

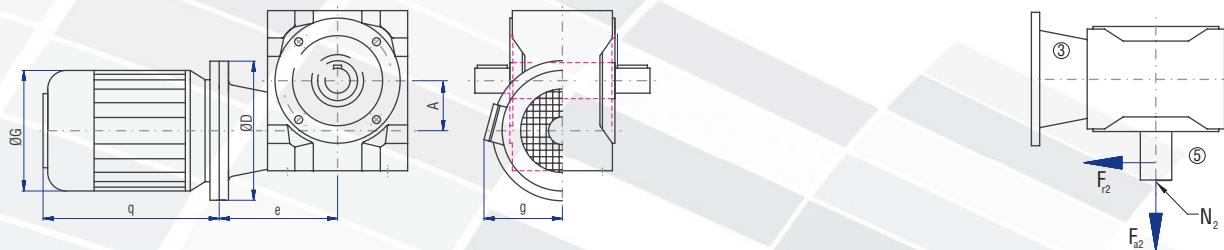
P ₁ [kW]	n ₂ [1/min]	T ₂ [Nm]	T _{2N} [Nm]	T _{2 max} [Nm]	Gearbox size	i [-]	IEC-Motor
0,18	18	65,9	137	197	050	38:1	080A-8
	17	67,7	88	145	050	51:1	071A-6
	16	60,2	63	112	050	83:1	063B-4
	14	73,7	109	120	050	62:1	071A-6
	13	84,6	91	145	050	51:1	080A-8
	11	89,1	112	120	050	62:1	080A-8
0,25	26	63,4	85	145	050	51:1	071A-4
	23	74,7	144	219	050	29:1	080B-8
	22	69,5	105	120	050	62:1	071A-4
	18	91,5	137	197	050	38:1	080B-8
	14	102,0	109	120	050	62:1	071B-6
0,37	47	57,9	113	219	050	29:1	071B-4
	47	62,4	110	179	050	19:1	080A-6
	36	73,6	118	197	050	38:1	071B-4
	31	84,3	121	219	050	29:1	080A-6
	24	105,0	134	197	050	38:1	080A-6
	23	111,0	144	219	050	29:1	090S-8
	22	103,0	105	120	050	62:1	071B-4
	18	136,0	137	197	050	38:1	090S-8

P ₁ [kW]	n ₂ [1/min]	T ₂ [Nm]	T _{2N} [Nm]	T _{2 max} [Nm]	Gearbox size	i [-]	IEC-Motor
0,55	143	33,8	91	152	050	9,5:1	080A-4
	72	62,0	106	179	050	19:1	080A-4
	47	86,1	113	219	050	29:1	080A-4
	36	109,0	118	197	050	38:1	080A-4
0,75	297	22,4	85	152	050	9,5:1	080A-2
	143	46,1	91	152	050	9,5:1	080B-4
1,10	72	84,6	106	179	050	19:1	080B-4
	297	32,9	85	152	050	9,5:1	080B-2
1,50	145	66,7	91	152	050	9,5:1	090S-4
	299	44,6	85	152	050	9,5:1	090S-2
2,20	145	90,9	91	152	050	9,5:1	090L-4
2,20	299	65,3	85	152	050	9,5:1	090L-2

Permissible radial force F_{r2} and axial force F_{a2} on shaft N₂

n ₂ [rpm]	200		125		75		50		30		10		
	T ₂ [Nm]	F _r [N]	F _a [N]	F _r [N]	F _a [N]	F _r [N]	F _a [N]	F _r [N]	F _a [N]	F _r [N]	F _a [N]		
< 120		2000	1000	2400	1200	2850	1425	3350	1675	4000	2000	4800	2400
> 120		1540	770	1850	925	2190	1095	2580	1290	3080	1540	3700	1850

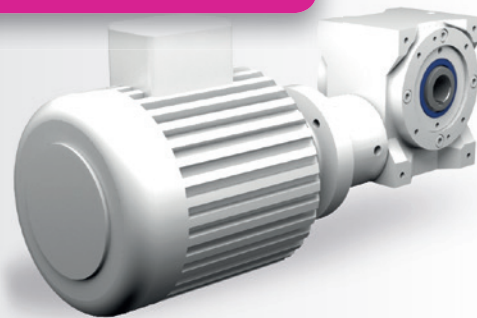
The mass inertia moment and the weight of the motor depend on the manufacturer. Please enquire the values of the overall system. For the dimensions of the worm gearbox, please refer to chapter 8.3 Worm gearboxes



IEC Motor	D [mm]	G [mm]	g [mm]	q [mm]	q ₁ [mm]	e [mm]	A [mm]
063	120	125	95	189	211	150	50
071	140	148	115	208	228	121	50
080	120	170	126	234	245	150	50
90L	140	185	142	272	298	121	50
90S	140	185	142	247	273	121	50

The value q₁ applies to braking motors

10.4.8 Type SLM 063 – Type SL with motor (gearbox motor)



Characteristics

Characteristic	Standard	Option
Toothing	Hardened and ground worm shaft / bronze worm gear	See chapter 9.2.1
Gear ratio	10:1 to 83:1	
Housing / Flanges	Grey cast iron	
Threaded mounting hole	On gearbox side 1 and on the flanges	See chapter 9.2.3
Shaft	Material 1 C45, shaft ends greased Fit with ISO j6 tolerance with parallel keyway: according to DIN 6885 Sheet 1	See chapter 4.6.2
Hollow shaft	Material 1 C45, shafts greased Fit with ISO H7 tolerance with parallel keyway: according to DIN 6885 Sheet 1	See chapter 4.6.3
Radial shaft seal ring	NBR, form A	See chapter 4.8
Ambient temperature	-10°C to +90°C. The values of the performance tables are valid for +20°C	See chapter 4.9.3
Circumferential backlash	< 30 arcmin	See chapter 9.2.10
Protection classes	IP 54	See chapter 4.5
Corrosion protection	Prime coat; layer thickness > 40 µm	See chapter 4.4.1
Bearing life L10h	more than 15,000h	See chapter 4.9.1
Oil change intervals	Not required if the oil temperature is kept < 90°C The lifetime of the bearings can be increased by the factor 1.5 if the oil is changed after the first 500 service hours and then every 5000 service hours.	See chapter 9.2.8
Lubricants	Synthetic lubricants	See chapter 9.2.8
Motor	IEC standard motor in the prescribed efficiency class	

For the dimensions of the worm gearbox, please refer to chapter 9.3.8 Standard worm gearboxes, page 195

Leistungsdaten

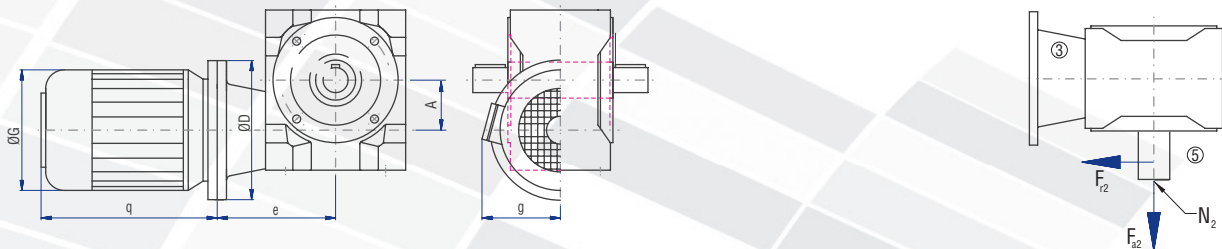
P ₁ [kW]	n ₂ [1/min]	T ₂ [Nm]	T _{2N} [Nm]	T _{2 max} [Nm]	Gearbox size	i [-]	IEC-Motor
0,25	17	100,0	200	310	063	51:1	071B-6
	16	94,0	152	246	063	82:1	071A-4
	15	104,0	202	240	063	61:1	071B-6
	13	125,0	207	310	063	51:1	080B-8
	11	128,0	152	246	063	82:1	071B-6
	11	135,0	221	240	063	61:1	080B-8
0,37	26	101,0	191	310	063	51:1	071B-4
	22	109,0	175	240	063	61:1	071B-4
	18	139,0	200	310	063	51:1	080A-6
	17	150,0	264	360	063	39:1	090S-8
	16	139,0	152	246	063	82:1	071B-4
	15	153,0	202	240	063	61:1	080A-6
	13	185,0	207	310	063	51:1	090S-8
	11	199,0	221	240	063	61:1	090S-8
0,55	31	131,0	237	437	063	29:1	080B-6
	27	144,0	191	310	063	51:1	080A-4
	24	164,0	268	437	063	29:1	090L-8
	23	171,0	237	360	063	39:1	080B-6
	22	162,0	175	240	063	61:1	080A-4
	18	210,0	264	360	063	39:1	090L-8

P ₁ [kW]	n ₂ [1/min]	T ₂ [Nm]	T _{2N} [Nm]	T _{2 max} [Nm]	Gearbox size	i [-]	IEC-Motor
0,75	47	122,0	204	437	063	29:1	080B-4
	47	131,0	212	355	063	19,5:1	090S-6
	35	158,0	207	348	063	39:1	080B-4
	31	178,0	237	437	063	29:1	090S-6
	24	224,0	268	437	063	29:1	100LA-8
	23	234,0	237	360	063	39:1	090S-6
1,10	71	130,0	186	355	063	19,5:1	090S-4
	48	175,0	204	437	063	29:1	090S-4
	47	192,0	212	355	063	19,5:1	090L-6
1,50	142	93,8	170	306	063	9,75:1	090L-4
	71	178,0	186	355	063	19,5:1	090L-4
2,20	145	135,0	170	306	063	9,75:1	100LA-4
3,00	292	92,2	121	306	063	9,75:1	100L-2

Permissible radial force F_{r2} and axial force F_{a2} on shaft N₂

n ₂ [rpm]	200		125		75		50		30		10		
	T ₂ [Nm]	F _r [N]	F _a [N]	F _r [N]	F _a [N]	F _r [N]	F _a [N]	F _r [N]	F _a [N]	F _r [N]	F _a [N]	F _r [N]	F _a [N]
< 220		2700	1350	3150	1575	3800	1900	4500	2250	5200	2600	5200	2600
> 220		2080	1040	2420	1210	2920	1460	3460	1730	4000	2000	4000	2000

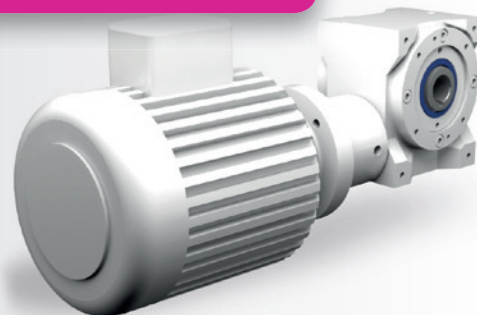
The mass inertia moment and the weight of the motor depend on the manufacturer. Please enquire the values of the overall system. For the dimensions of the worm gearbox, please refer to chapter 8.3 Worm gearboxes



IEC Motor	D [mm]	G [mm]	g [mm]	q [mm]	q ₁ [mm]	e [mm]	A [mm]
071	160	148	115	208	228	163	63
080	160	170	126	234	245	163	63
90L	200	185	142	272	298	175	63
90S	200	185	142	247	273	175	63
100	200	210	155	301	348	175	63
112	200	210	155	301	348	175	63

The value q₁ applies to braking motors

10.4.9 Type SLM 080 – Type SL with motor (gearbox motor)



Characteristics

Characteristic	Standard	Option
Toothing	Hardened and ground worm shaft / bronze worm gear	See chapter 9.2.1
Gear ratio	10:1 to 83:1	
Housing / Flanges	Grey cast iron	
Threaded mounting hole	On gearbox side 1 and on the flanges	See chapter 9.2.3
Shaft	Material 1 C45, shaft ends greased Fit with ISO j6 tolerance with parallel keyway: according to DIN 6885 Sheet 1	See chapter 4.6.2
Hollow shaft	Material 1 C45, shafts greased Fit with ISO H7 tolerance with parallel keyway: according to DIN 6885 Sheet 1	See chapter 4.6.3
Radial shaft seal ring	NBR, form A	See chapter 4.8
Ambient temperature	-10°C to +90°C. The values of the performance tables are valid for +20°C	See chapter 4.9.3
Circumferential backlash	< 30 arcmin	See chapter 9.2.10
Protection classes	IP 54	See chapter 4.5
Corrosion protection	Prime coat; layer thickness > 40 µm	See chapter 4.4.1
Bearing life L10h	more than 15,000h	See chapter 4.9.1
Oil change intervals	Not required if the oil temperature is kept < 90°C The lifetime of the bearings can be increased by the factor 1.5 if the oil is changed after the first 500 service hours and then every 5000 service hours.	See chapter 9.2.8
Lubricants	Synthetic lubricants	See chapter 9.2.8
Motor	IEC standard motor in the prescribed efficiency class	

For the dimensions of the worm gearbox, please refer to chapter 9.3.9 Standard worm gearboxes, page 199

Performance data

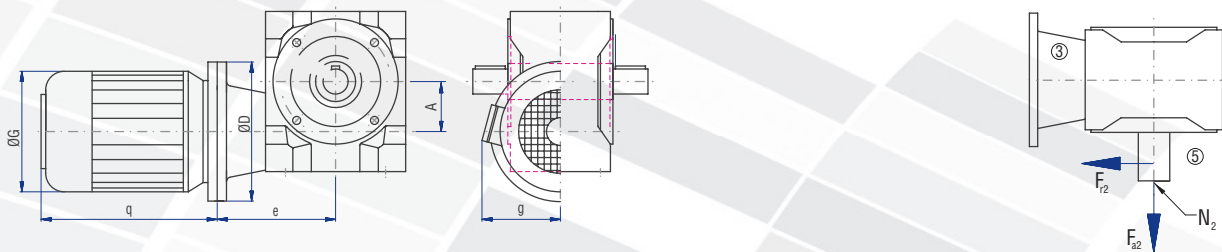
P ₁ [kW]	n ₂ [1/min]	T ₂ [Nm]	T _{2N} [Nm]	T _{2 max} [Nm]	Gearbox size	i [-]	IEC-Motor
0,25	8	176,0	304	510	080	82:1	080B-8
	11	196,0	304	510	080	82:1	080A-6
0,37	8	261,0	304	510	080	82:1	090S-8
	17	201,0	304	510	080	82:1	080A-4
0,55	17	229,0	284	480	080	53:1	080B-6
	15	238,0	325	480	080	62:1	080B-6
	13	287,0	294	480	080	53:1	090L-8
	11	291,0	304	510	080	82:1	080B-6
	11	310,0	352	480	080	62:1	090L-8
	26	212,0	271	480	080	53:1	080B-4
0,75	22	228,0	279	480	080	62:1	080B-4
	17	274,0	304	510	080	82:1	080B-4
	17	316,0	501	780	080	40:1	100LA-8
	15	325,0	325	480	080	62:1	090S-6
1,10	46	187,0	395	920	080	30:1	090S-4
	35	240,0	381	780	080	40:1	090S-4
	30	280,0	465	920	080	30:1	090L-6
	23	356,0	443	780	080	40:1	090L-6
	23	356,0	530	920	080	30:1	100LB-8
	17	464,0	501	780	080	40:1	100LB-8

P ₁ [kW]	n ₂ [1/min]	T ₂ [Nm]	T _{2N} [Nm]	T _{2 max} [Nm]	Gearbox size	i [-]	IEC-Motor
1,50	46	255,0	395	920	080	30:1	090L-4
	46	274,0	399	725	080	20:1	100LA-6
	35	327,0	381	780	080	40:1	090L-4
	31	370,0	465	920	080	30:1	100LA-6
	23	486,0	530	920	080	30:1	112M-8
2,20	71	263,0	344	725	080	20:1	100LA-4
	47	367,0	395	920	080	30:1	100LA-4
	47	393,0	399	725	080	20:1	112M-6
3,00	141	191,0	297	625	080	10:1	100LB-4
	286	126,0	197	625	080	10:1	112M-2
4,00	142	253,0	297	625	080	10:1	112M-4

Permissible radial force F_{r2} and axial force F_{a2} on shaft N₂

n ₂ [rpm]	200		125		75		50		30		10		
	T ₂ [Nm]	F _r [N]	F _a [N]	F _r [N]	F _a [N]	F _r [N]	F _a [N]	F _r [N]	F _a [N]	F _r [N]	F _a [N]		
< 430		3300	1650	3750	1875	4500	2250	5300	2650	6300	3150	7600	3800
> 430		2640	1320	3000	1500	3600	1800	4240	2120	5040	2520	6080	3040

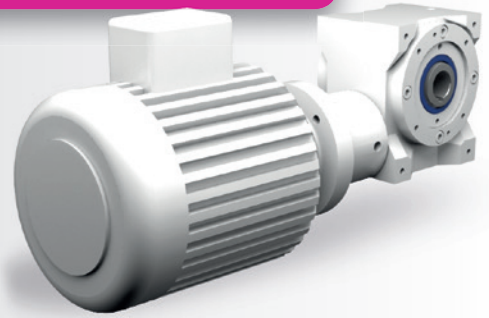
The mass inertia moment and the weight of the motor depend on the manufacturer. Please enquire the values of the overall system. For the dimensions of the worm gearbox, please refer to chapter 8.3 Worm gearboxes



IEC Motor	D [mm]	G [mm]	g [mm]	q [mm]	q ₁ [mm]	e [mm]	A [mm]
080	160	170	126	234	245	183	80
90L	200	185	142	272	298	195	80
90S	200	185	142	247	273	195	80
100	200	210	155	301	348	195	80
112	200	210	155	301	348	195	80

The value q₁ applies to braking motors

10.4.10 Type SLM 100 – Type SL with motor (gearbox motor)



Characteristics

Characteristic	Standard	Option
Toothing	Hardened and ground worm shaft / bronze worm gear	See chapter 9.2.1
Gear ratio	10:1 to 83:1	
Housing / Flanges	Grey cast iron	
Threaded mounting hole	On gearbox side 1 and on the flanges	See chapter 9.2.3
Shaft	Material 1 C45, shaft ends greased Fit with ISO j6 tolerance with parallel keyway: according to DIN 6885 Sheet 1	See chapter 4.6.2
Hollow shaft	Material 1 C45, shafts greased Fit with ISO H7 tolerance with parallel keyway: according to DIN 6885 Sheet 1	See chapter 4.6.3
Radial shaft seal ring	NBR, form A	See chapter 4.8
Ambient temperature	-10°C to +90°C. The values of the performance tables are valid for +20°C	See chapter 4.9.3
Circumferential backlash	< 30 arcmin	See chapter 9.2.10
Protection classes	IP 54	See chapter 4.5
Corrosion protection	Prime coat; layer thickness > 40 µm	See chapter 4.4.1
Bearing life L10h	more than 15,000h	See chapter 4.9.1
Oil change intervals	Not required if the oil temperature is kept < 90°C The lifetime of the bearings can be increased by the factor 1.5 if the oil is changed after the first 500 service hours and then every 5000 service hours.	See chapter 9.2.8
Lubricants	Synthetic lubricants	See chapter 9.2.8
Motor	IEC standard motor in the prescribed efficiency class	

For the dimensions of the worm gearbox, please refer to chapter 9.3.10 Standard worm gearboxes, page 203

Performance data

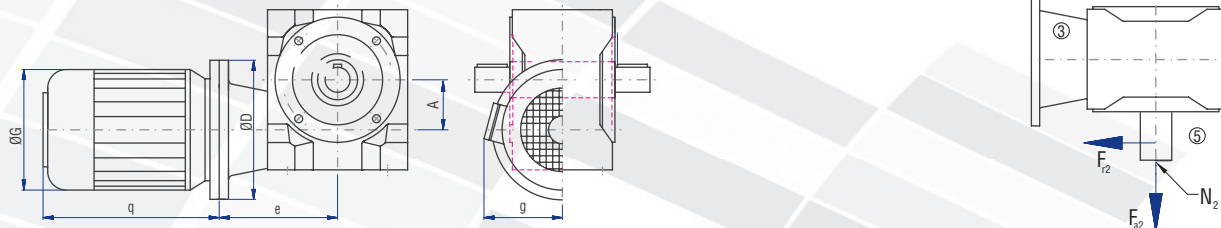
P ₁ [kW]	n ₂ [1/min]	T ₂ [Nm]	T _{2N} [Nm]	T _{2 max} [Nm]	Gearbox size	i [-]	IEC-Motor
0,75	18	295,0	704	1080	100	52:1	090S-6
	14	348,0	886	1040	100	63:1	090S-6
	13	397,0	728	1080	100	52:1	100LA-8
	11	404,0	599	1000	100	82:1	090S-6
	11	423,0	886	1040	100	63:1	100LA-8
	8	546,0	599	1000	100	82:1	100LA-8
1,10	27	300,0	670	1080	100	52:1	090S-4
	22	334,0	817	1040	100	63:1	090S-4
	18	432,0	704	1080	100	52:1	090L-6
	17	408,0	599	1000	100	82:1	090S-4
	14	510,0	886	1040	100	63:1	090L-6
	13	582,0	728	1080	100	52:1	100LB-8
	11	592,0	599	1000	100	82:1	090L-6
1,50	11	621,0	886	1040	100	63:1	100LB-8
	27	409,0	670	1080	100	52:1	090L-4
	23	486,0	933	1582	100	40:1	100LA-6
	23	486,0	950	1765	100	30:1	112M-8
	22	456,0	817	1040	100	63:1	090L-4
	18	589,0	704	1080	100	52:1	100LA-6
	18	605,0	1025	1528	100	40:1	112M-8
	17	556,0	599	1000	100	82:1	090L-4
	15	649,0	886	1040	100	63:1	100LA-6
	11	847,0	886	1040	100	63:1	112M-8

P ₁ [kW]	n ₂ [1/min]	T ₂ [Nm]	T _{2N} [Nm]	T _{2 max} [Nm]	Gearbox size	i [-]	IEC-Motor
2,20	47	367,0	748	1765	100	30:1	100LA-4
	35	480,0	817	1582	100	40:1	100LA-4
	31	542,0	825	1765	100	30:1	112M-6
	27	599,0	670	1080	100	52:1	100LA-4
	24	683,0	933	1582	100	40:1	112M-6
	24	683,0	950	1765	100	30:1	132SB-8
	22	669,0	817	1040	100	63:1	100LA-4
	18	887,0	1025	1582	100	40:1	132SB-8
3,00	71	359,0	778	1440	100	20:1	100LB-4
	47	500,0	748	1765	100	30:1	100LB-4
	35	655,0	817	1582	100	40:1	100LB-4
	24	931,0	933	1582	100	40:1	132SB-6
	24	931,0	950	1765	100	30:1	132MB-8
4,00	71	479,0	778	1440	100	20:1	112M-4
	47	666,0	748	1765	100	30:1	112M-4
5,50	290	170,0	555	1090	100	10:1	132SA-2
	143	345,0	703	1090	100	10:1	132SB-4
	72	649,0	778	1440	100	20:1	132SB-4
7,50	290	232,0	555	1090	100	10:1	132SB-2
	143	471,0	703	1090	100	10:1	132MB-4
9,00	291	278,0	555	1090	100	10:1	132MA-2

Permissible radial force F_{r2} and axial force F_{a2} on shaft N₂

n ₂ [rpm]	200		125		75		50		30		10		
	T ₂ [Nm]	F _r [N]	F _a [N]	F _r [N]	F _a [N]	F _r [N]	F _a [N]	F _r [N]	F _a [N]	F _r [N]	F _a [N]	F _r [N]	F _a [N]
< 800		3650	1825	4000	2000	4750	2375	5600	2800	6700	3350	9500	4750
> 800		2920	1460	3200	1600	3800	1900	4480	2240	5360	2680	7600	3800

The mass inertia moment and the weight of the motor depend on the manufacturer. Please enquire the values of the overall system. For the dimensions of the worm gearbox, please refer to chapter 8.3 Worm gearboxes



IEC Motor	D [mm]	G [mm]	g [mm]	q [mm]	q ₁ [mm]	e [mm]	A [mm]
90L	200	185	142	272	298	235	100
90S	200	185	142	247	273	235	100
100	250	210	155	301	348	245	100
112	250	210	155	301	348	245	100
132M	300	260	200	416	454	265	100
132S	300	260	200	390	428	265	100

The value q₁ applies to braking motors

Gearbox motors