



available types with performance data

Type	rated power	speed	torque	rated current	input power	rel. start torque	rel. breakdown torque	efficiency	power factor	capacitor
[IGL/-U]	P2	n	M	I _y	P1	M _{start} /M	M _{brk} /M	ηη	cos(φ)	C
	W	r.p.m.	Ncm	A	W			%		μF

2-poles (approx. 2800 r.p.m.)

preferred types

65-40	65	2630	23,7	0,25	125	1,87	1,83	52,0	0,71	6
80-40	200	2650	72	0,58	330	1,85	1,71	60,7	0,82	12
80-60	270	2700	106	0,80	454	2,00	1,89	66,0	0,82	16

additional types

65-20	25	2650	9,1	0,17	70,7	1,75	1,92	36,0	0,71	3
65-60	115	2670	41,2	0,40	200	1,97	1,89	57,5	0,72	8
80-20	70	2650	25,	0,25	132	1,68	1,80	52,9	0,76	4,5
80-80	400	2700	14	1,00	568	2,50	2,50	70,4	0,82	25
90-40	250	2650	89,9	0,64	372	1,67	1,83	67,1	0,84	20
90-60	420	2750	147	1,10	579	2,62	2,57	72,5	0,76	25
90-80	580	2800	198	1,30	757	2,50	2,50	76,7	0,84	30
100-40	400	2720	140	0,94	563	1,63	2,00	71,1	0,68	25
100-60	580	2800	198	1,37	763	2,25	2,78	76,0	0,80	30
100-80	740	2800	252	1,63	940	2,28	2,84	78,7	0,83	40

4-poles (approx. 1400 r.p.m.)

preferred types

65-40	25	1200	20,0	0,16	78,0	1,65	1,75	32,0	0,69	4
80-40	110	1300	81,3	0,43	210	1,85	1,83	52,4	0,71	10
100-80	400	1380	277	1,06	544	1,90	2,08	73,5	0,74	25

additional types

65-20	13	1300	9,70	0,11	52,8	1,77	1,77	25,0	0,70	3
65-60	40	1250	30,0	0,22	95,5	1,86	1,86	41,8	0,62	4,5
80-20	40	1330	29,1	0,23	100	1,89	1,86	40,0	0,68	6
80-60	155	1300	114	0,58	270	2,08	2,08	57,4	0,68	14
80-80	200	1340	143	0,70	338	2,37	2,37	59,2	0,70	20
90-40	150	1330	108	0,50	257	1,65	1,75	58,5	0,74	12
90-60	200	1375	140	0,66	311	2,18	2,25	64,3	0,68	14
90-80	275	1320	200	0,82	426	2,15	2,16	64,5	0,75	20
100-40	210	1360	147	0,65	336	1,63	1,76	62,5	0,75	14
100-60	310	1360	248,0	0,87	457	1,73	1,88	67,8	0,76	20



technical information

motor technology	2- or 4-pole AC-induction motors Standard on three phases or with operating capacitors on 1x230V, and to use with a 1x230V-inverter drives. 3x400V inverter drive with optional phase Phase insulation.
connection	star/delta: 400/230V
power output range	9 to 740W
insulation class	F (max. winding temperature 155°C)
housing	aluminum continuous casting, bearing shield aluminum pressure casting
type	B3/B14 or with screw foot
protection ^[1]	IP54
type of cooling	ventilated, designed for continuous operation, ED=100%
connection System	terminal box (terminal board with bolts)
painting	RAL 5002, ultramarine blue, semi-gloss
terminal box	AK2 (metal terminal box with 2x M20, 1x occupied with nickel-plated brass screw connection, 1x blind cover, nickel-plated brass) A second screw connection can be ordered separately with item no. 00029693.

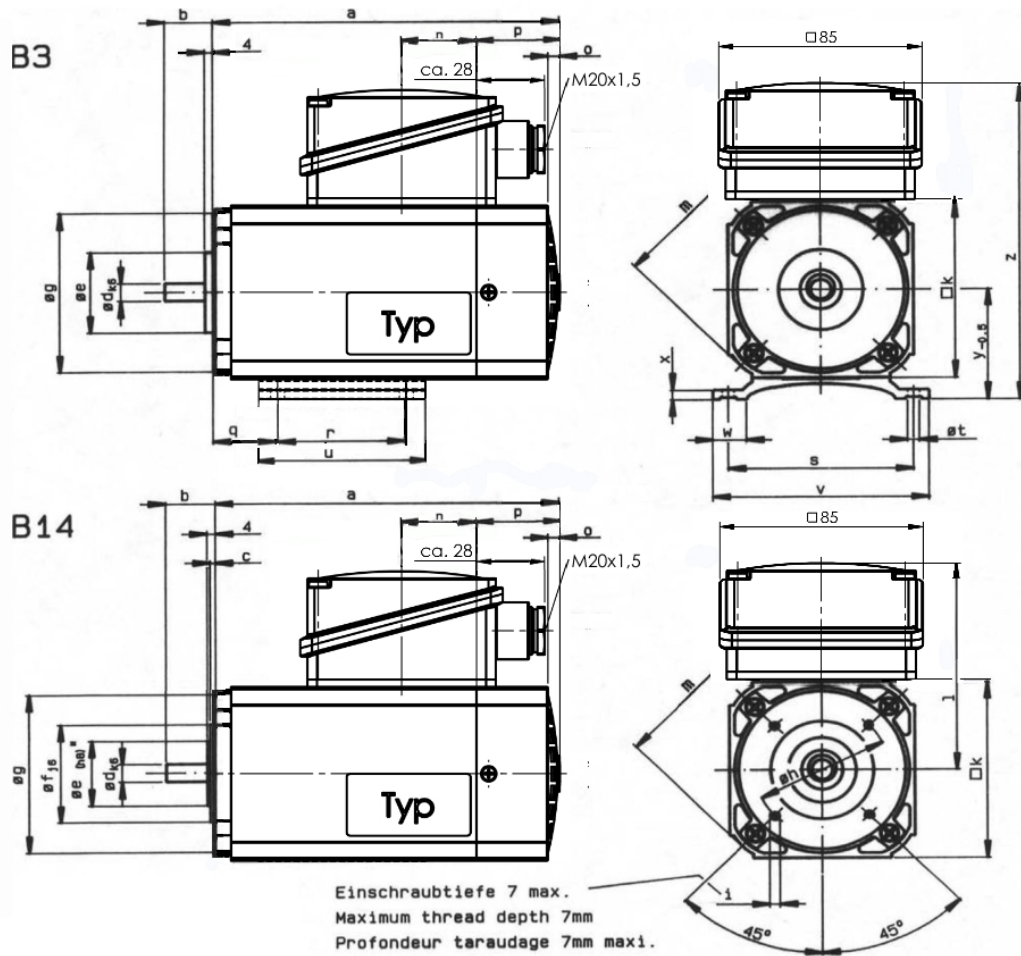
^[1] Information about the protection of motors relate to the assembled state with gearboxes. The type of protection is for the electronic equipment. Protection types of gearboxes are to be requested separately.

Options

electrical	<ul style="list-style-type: none"> • special voltage and speed • increased torque for a short period of time • strengthened phase insulation for operating on a 3x400 drive inverter • mounted inverter type MFR
mechanical	special design for your requirements are possible
brakes	24VDC or 205VDC (from terminal box with integrated commutator)
encoder System	encoder, resolver, speed generator
temperature monitoring	heat monitor with NC-contact or triple-PTC
protection ^[1]	up to IP65 possible (due to permanently elastic or O-ring at the bearing shield)
painting	special painting
coating	surface coating, e.g. Hard-Coat, SilaCoat, DurniCoat
certifications	CE
terminal box	K3E plastic, EMC conform with screw connection 2x PG11 (dimension drawing of the terminal boxes are given later in this data sheet)

^[1] Information about the protection of motors relate to the assembled state with gearboxes. The type of protection is for the electronic equipment. Protection types of gearboxes are to be requested separately.

technical drawing and dimension (with terminal-box AK2)



Maße ohne Toleranzangabe unverbindlich / Dimensions are in mm and for reference only / Cotes d'encombrement (en mm)

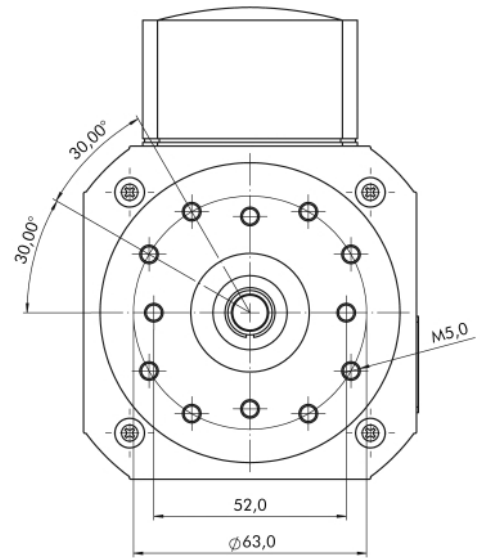
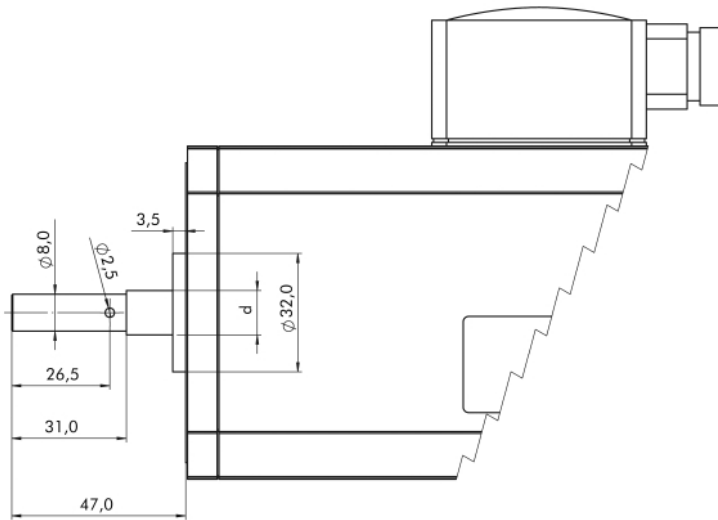
(Our preferred types are basically mechanically prepared for attaching to our gearboxes. Therefore the shaft- and flange-dimensions differ from the drawings above. For requests without gearboxes we do ask for a separate consultation.)

type IGL IGLU	a		b		c	d	e		f	g	h	i	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z	mass kg
	B3	B14	B3	B14			B3	B14																					
65-20	127	126,5	23,5	24	...	9	33	32	...	66	45	M4	73	74	92	30	5	35	18,5	54	80	5,8	70	95	16,5	4,5	45	119	1,7
65-40	147	146,5																	28,5										2,2
65-60	167	166,5																	38,5										2,7
80-20	130	129,5	23,5	24	2,5	9	41	33	50	81	65	M5	90	82,5	110	30	6	44	12	71	90	5,8	88	105	16,5	5	56	138,5	2,0
80-40	150	149,5																	22										2,7
80-60	170	169,5																	32										3,4
80-80	190	189,5																	42										4,2
90-40	157,5	157	26,5	27	2,5	11	41	42	60	91	75	M5	100	87,5	123	30	6,5	44,5	21	80	100	7	102	120	21	6	63	150,5	3,4
90-60	177,5	177																	31										4,3
90-80	197,5	197																	41										5,2
100-40	163	162,5	33,5	34	2,5	14	41	42	70	101	85	M6	112	93,5	137	30	6,5	46	18	90	112	7	115	135	23,5	7	71	164,5	4,3
100-60	183	182,5																	28										5,3
100-80	203	202,5																	38										6,5



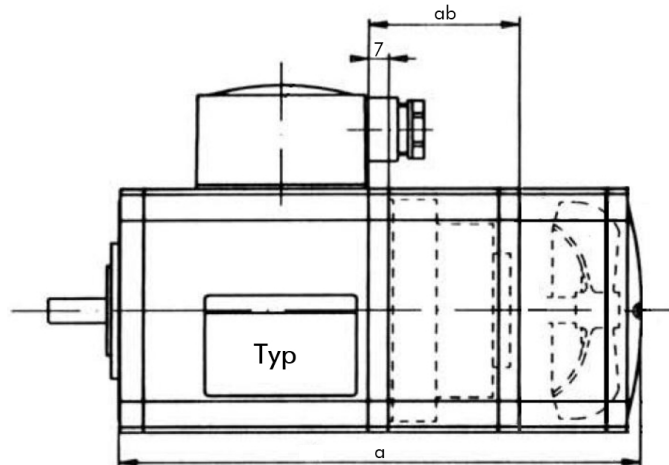
available flanges and shafts

flange- and shaft-dimensions for attaching to gearboxes: VE31, Z3, Z5, Z10, Z14, Z20



d [mm]	type IGL/-U
8	65
10	80/90
12	100

optional brakes



technical information (with spring-loaded brake)

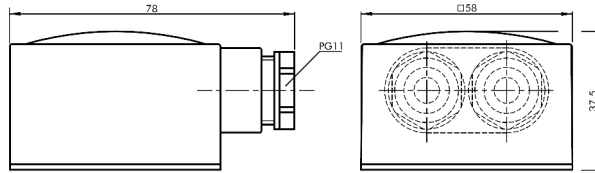
type [IGL/-U]	braking torque [Nm]	voltage [VDC]	current [A]	dimension for a*		for ab [mm]	mass [kg]
				B3 [mm]	B14 [mm]		
65-20	1,0	205	0,06	164	163,5	47	2,0
65-40				184	183,5		2,5
65-60				204	203,5		3,0
80-20	5,0		0,11	182	181,5	52	3,2
80-40				202	201,5		3,9
80-60				222	221,5		4,6
80-80				242	241,5		5,4
90-40	5,0		0,11	209,5	209		4,7
90-60				229,5	229		5,6
90-80				249,5	249		6,5
100-40	5,0		0,11	215	214,5		tbd
100-60				255	234,5		tbd
100-80		255		254,5	tbd		

*data for 24 V DC, brakes only on request.

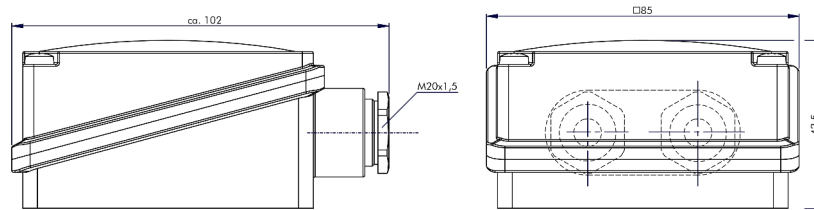
Attention: motor with braking option only comes with terminal box AK2.

available terminal boxes

K3/-E



AK2



connections

	design	type	3 phases	1 phase (Steinmetz)
standard motor		<p>star</p>		
		<p>triangle</p>		
with brakes and commutator		<p>star</p>		
		<p>triangle</p>		