Kaiser-Motoren

Ein Unternehmen der PEJA-Gruppe

CLEAN IN PLACE

EUROPEAN STAINLESS MOTORS

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BEATS CORROSION

All external metal components including motor shafts are manufactured in AISI 304 stainless steel which provides excellent corrosion resistance. With a highly chemically resistant surface (no paint to flake off), they far outlive standard painted motors in hygienic applications.

WASHDOWN TOLERANT

EUROPEAN manufactured and exceeding IP66 during external testing, the **Kaiser stainless range** is a proven design for **CIP** (**C**lean **I**n **P**lace) areas and washdown situations. A VITON® double lip seal and a second GAMMA seal fitted on the shaft are examples of the attention to detail for protection against potential ingress during washdown.

WHERE HYGIENE COUNTS

Unlike standard motors the **Kaiser stainless range** has clean lines and no cooling fins. Designed with cleaning in mind it has no paint to chip or flake off and no surface that will corrode. Waste products can be washed away easily leaving no residue and the motor can be used with confidence in food processing areas. Even the rating plate is laser-engraved onto the outer casing to reduce areas where bacteria can grow.

NO NEED TO BRUSH OR BAG – JUST WASH IT AWAY.

STAINLESS

Before Cleaning

During Cleaning

After Cleaning

STANDARD

Before Cleaning

During Cleaning

After Cleaning

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FIGURES AND FACTS

✓ **STAINLESS STEEL MOTORS WITH CLEAN SURFACE**
(e.g. suitable for food industry)

✓ **HOUSING MATERIAL AISI 304** (AISI 316L on request)

✓ **TOTALLY ENCLOSED MOTORS:**
TENV – **T**otally **E**nclosed **N**on **V**entilated
TEFC – **T**otally **E**nclosed **F**an **C**ooled
TEWC – **T**otally **E**nclosed **W**ater **C**ooled

✓ **POWER RANGE FROM**	0,18kW to 22kW
✓ **AVAILABLE FROM FRAME SIZE**	63 to 160
✓ **STANDARD POLE FIGURES**	2, 4 and 6
✓ **STANDARD MOUNTINGS**	B3, B14 and B5
✓ **STANDARD PROTECTION**	IP66
✓ **THERMAL PROTECTION**	PTC 155°C

✓ **INSULTATION SYSTEM UL-CERTIFIED**

✓ All motors **EFFICIENCY CLASS IE3 OR HIGHER**

✓ All motors suitable for **FREQUENCY DRIVE**

✓ **STANDARD SUPPLY VOLTAGE:**
50Hz: 230/400V resp. 400/690V
60Hz: 460V

✓ **AVAILABLE ON REQUEST:**
- different power
- higher degree of protection up to IP69K
- different supply voltage
- special shaft (no adapter needed)
- special flange
- anti-condensation heaters
- brake
- encoder
- ATEX Zone 22
- bearings with grease for food applications

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CLEAN FEATURES

RATED FOR...

FREQUENCY CONTROLLERS/ VARIABLE SPEED DRIVE OR INVERTER USE

The whole **Kaiser-Motoren range** is suitable for inverter drive use and has phase barriers as well as PTC thermistors fitted as standard. On request PTO (KLIXON® style) bi-metallic thermostats can be fitted as an alternative to protect against over-temperature.

LASER-ENGRAVED RATING PLATES

The rating plates and fixings on standard motors are prime areas for waste and dirt entrapment. They corrode, are liable to be damaged and can even detach. The **Kaiser stainless range** has the technical data laser-engraved directly onto the motor body, thus eliminating these hygiene and safety risks.

TEFC AND TENV

Totally **E**nclosed **F**an **C**ooled motors rely on air being pulled from the non-drive end of the motor through a fan; this is then blown over the motor body to help to dissipate the generated heat. **T**otally **E**nclosed **N**on **V**entilated motors work on the basis of more active material and optimized efficiencies, reducing the heat generated through losses thus avoiding the need for a fan. The TENV types are standard up to and including 1.1kW and due to their design have fewer areas for entrapment of dirt or waste product.

IP66 SEALING AND HIGHER

As defined by the IEC 60034-5 standard, the **IP**-code (Ingress Protection rating) consists of two digits: the higher the numbers, the better the protection. The first digit relates to the ingress of dust or solid particles, however it is the second digit which is more important for this product range, as it relates to the protection level against water projected in powerful jets from any direction. This makes the product ideal for critical washdown applications.

TROPICALIZED INTERNAL COMPONENTS

Corrosion-resistant rotors and advanced winding varnishing techniques dramatically increase the motor's reliability and expected lifetime. This also makes the motors especially usable in wet conditions.

ROUND TERMINAL BOX AS STANDARD

The round smooth terminal box, which is machined and welded directly onto the frame of the motor, has fewer places to trap water or dirt. It also benefits from smooth hygienic gland-seat extensions, proving the attention to detail from a hygienic perspective. This will be seen as another important aspect for factory inspectors/auditors.

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STANDARD MOTORDATA

3000 min^{-1} (2 poles)*

Stainless steel		Rated power	Rated speed	Power factor	Efficiency			Rated voltage	Rated current	Starting current	Torque			Weight		
50Hz	Type	P_N	n_N	cos φ	η (%)			U_N ▲/Y	I_N ▲/Y		Full load	Locked rotor	Break down	B3**	B14**	B5**
IEC Frame size		kW	rpm	M_N	M_N	0,75 M_N	0,5 M_N	V	A	I_A/I_N	M_N/Nm	M_A/M_N	M_K/M_N	kg	kg	kg
63-2A	TENV	0,18	2800	0,78	IE4-75,0	75,2	72,0	230/400	0,78/0,45	4,7	0,62	3,3	3,1	8	8	9
63-2B	TENV	0,25	2830	0,81	IE4-76,8	76,3	73,1	230/400	1,00/0,58	6,4	0,84	4,4	4,2	9	9	10
71-2A	TENV	0,37	2830	0,83	IE4-80,4	80,2	78,1	230/400	1,39/0,80	6,4	1,26	3,9	3,8	11,6	11,6	12,8
71-2B	TENV	0,55	2880	0,87	IE4-82,0	83,6	81,7	230/400	1,92/1,11	7,8	1,85	4,8	4,6	14,5	14,5	15,7
80-2A	TENV	0,75	2900	0,88	IE4-84,6	83,9	85,1	230/400	2,51/1,45	8,4	2,48	3,9	3,6	19	19	21,5
80-2B	TEFC	1,1	2885	0,89	IE4-85,2	86,2	85,6	230/400	3,60/2,08	7	3,64	2,5	2,9	22	22	23,5
90S-2	TEFC	1,5	2875	0,84	IE3-84,2	86,1	84,7	230/400	5,28/3,05	8,4	4,98	4,8	4,4	23,3	23,3	25
90L-2	TEFC	2,2	2840	0,87	IE3-85,9	87,0	86,8	230/400	7,36/4,25	7,1	7,41	3,7	3,5	26	26	27,7
100L-2	TEFC	3	2910	0,9	IE3-87,1	86,5	86,0	230/400	9,53/5,50	8	9,85	2,6	3,5	41	41	43,3
112M-2	TEFC	4	2930	0,9	IE3-88,1	88,2	86,8	400/690	7,27/4,20	9	13,04	2,8	4,2	49	49	52
132SA-2	TEFC	5,5	2950	0,88	IE3-90,0	90,6	89,8	400/690	10,0/5,77	8	9,85	2,6	3,5	78	78	84
132SB-2	TEFC	7,5	2940	0,91	IE3-90,5	91,0	90,2	400/690	13,15/7,59	5,2	24,43	2,4	3,9	78	78	84
160MA-2	TEFC	11	2950	0,89	IE3-91,2	89,8	87,4	400/690	19,7/11,4	9,1	35,9	4	4,2	109	109	113
160MB-2	TEFC	15	2940	0,89	IE3-91,9	91,3	91,0	400/690	26,8/15,5	9,7	48,7	4,7	4,8	128	128	132
160L-2	TEFC	18,5	2950	0,88	IE3-92,4	92,8	91,6	400/690	33,0/19,1	8,2	59,9	2,8	3,5	144	144	148
160L-2s	TEFC	22	2950	0,86	IE3-92,7	93,7	92,2	400/690	39,8/23,0	8,2	71,2	3	3,5	157	157	161

1500 min^{-1} (4 poles)*

Stainless steel		Rated power	Rated speed	Power factor	Efficiency			Rated voltage	Rated current	Starting current	Torque			Weight		
50Hz	Type	P_N	n_N	cos φ	η (%)			U_N ▲/Y	I_N ▲/Y		Full load	Locked rotor	Break down	B3**	B14**	B5**
IEC Frame size		kW	rpm	M_N	M_N	0,75 M_N	0,5 M_N	V	A	I_A/I_N	M_N/Nm	M_A/M_N	M_K/M_N	kg	kg	kg
63-4	TENV	0,18	1385	0,67	IE3-71,0	67,9	63,3	230/400	0,95/0,55	3,8	1,25	2,6	2,5	9	9	10
71-4A	TENV	0,25	1440	0,69	IE4-81,0	78,6	74,3	230/400	1,07/0,62	5,1	1,67	2,3	2,8	12	12	13,2
71-4B	TENV	0,37	1440	0,63	IE3-80,0	82,2	79,2	230/400	1,80/1,04	4,5	2,48	2,4	2,9	12,8	12,8	14
80-4A	TENV	0,55	1440	0,71	IE3-82,0	79,8	77,0	230/400	2,35/1,35	5,7	3,68	3,2	3,1	17	17	18,5
80-4B	TENV	0,75	1450	0,71	IE4-85,7	82,0	78,4	230/400	3,08/1,78	7	4,9	3,1	3,8	24	24	25,5
90S-4	TENV	1,1	1460	0,74	IE3-85,8	83,5	79,2	230/400	4,33/2,50	9,4	7,14	3,4	4,5	30	30	31,7
90S-4	TEFC	1,1	1445	0,8	IE3-84,5	85,2	83,3	230/400	4,07/2,35	5,8	7,29	2,2	2,7	21,5	21,5	23,2
90L-4	TEFC	1,5	1450	0,79	IE3-85,3	84,6	82,3	230/400	5,54/3,20	6,6	9,88	2,5	2,9	23,5	23,5	25,2
100LA-4	TEFC	2,2	1440	0,83	IE3-86,7	85,5	83,1	230/400	7,62/4,40	6,9	14,59	2,6	3,2	45	45	47,3
100LB-4	TEFC	3	1455	0,81	IE3-87,7	87,7	86,8	230/400	10,57/6,10	7,8	19,7	3,4	3,8	50	50	52,3
112M-4	TEFC	4	1465	0,78	IE3-88,6	88,6	87,4	400/690	8,35/4,82	5,8	26,02	2,2	3,1	55	55	58
132S-4	TEFC	5,5	1470	0,82	IE3-90,5	91,2	90,7	400/690	10,70/6,18	7,8	35,7	3,4	3,8	80	78	81
132M-4	TEFC	7,5	1460	0,81	IE3-90,4	88,6	87,9	400/690	14,70/8,49	9,2	49,14	2,5	4,2	86	86	92
160M-4	TEFC	11	1470	0,79	IE3-91,4	91,5	90,5	400/690	22,4/12,9	10,1	71,5	2,5	3,1	148	148	152
160L-4	TEFC	15	1465	0,78	IE3-92,1	92,5	91,8	400/690	30,5/17,6	8,9	97,8	3,2	2,8	154	154	158

1000 min^{-1} (6 poles)*

Stainless steel		Rated power	Rated speed	Power factor	Efficiency			Rated voltage	Rated current	Starting current	Torque			Weight		
50Hz	Type	P_N	n_N	cos φ	η (%)			U_N ▲/Y	I_N ▲/Y		Full load	Locked rotor	Break down	B3**	B14**	B5**
IEC Frame size		kW	rpm	M_N	M_N	0,75 M_N	0,5 M_N	V	A	I_A/I_N	M_N/Nm	M_A/M_N	M_K/M_N	kg	kg	kg
71-6A	TENV	0,18	925	0,7	IE3-70,0	69,2	65,2	230/400	0,92/0,53	3,5	1,86	2,2	2,3	12,2	11,9	12,2
71-6B	TENV	0,25	930	0,63	IE4-76,9	69,6	63,4	230/400	1,32/0,77	3,7	2,56	2,3	2,4	14,2	14,2	15,4
80-6A	TENV	0,37	930	0,7	IE3-77,8	77,7	74,3	230/400	1,70/0,98	4,6	3,73	2,3	2,7	20,5	20,5	22
80-6B	TENV	0,55	930	0,73	IE3-78,0	79,1	78,0	230/400	2,6/1,5	4,1	5,62	2,1	3	23	23	24,5
90S-6	TEFC	0,75	960	0,71	IE3-81,7	83,2	81,0	230/400	3,19/1,84	4,7	7,47	2	2,6	25	25	26,7
90L-6	TEFC	1,1	950	0,72	IE3-82,7	83,8	82,2	230/400	4,56/2,63	4,5	11,06	2	2,35	30	30	31,7
100L-6	TEFC	1,5	950	0,75	IE3-83,7	85,9	86,4	230/400	5,98/3,45	4,5	15,15	2	2,42	46	48	50

* Full datasheet available on request, including 60Hz data (all motors suitable to run at 60Hz).
** Motor weights are unboxed, please add for packaging

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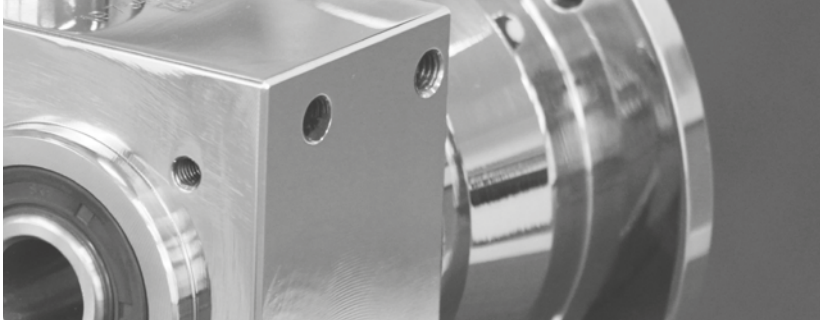
CLEAN CHOICES



FURTHER OPTIONS FROM PRODUCTION OR AS STOCK MODIFICATIONS INCLUDE:

- Alternative terminal box positions for foot mounted motors.
- Anti-condensation heaters – reduce the appearance of condensation and protect against humidity inside the motor. They also help to keep the windings and bearings on normal operating temperature at low ambient conditions.
- On request application-specific drain plugs can be fitted as a proven way of removing condensation from the inside of the motor.

- Executions with brake or encoder both for all motor types.

CLEAN GEARBOXES

Smooth-bodied stainless steel gearboxes are available. their linear design makes them ideal for multi-stacking. This enables very low output speeds and high torques to be achieved which are not commonly available.

CLEAN CUSTOMIZATION

SPECIAL CONSTRUCTION TENV, TEFC & TEWC –

outside of standard powers and voltages

SPECIAL SHAFTS AND FLANGES INCLUDING SEW DRIVE SOLUTIONS

The standard IEC flange configurations are commonly required for the majority of pump, fan and gearbox applications. However, we are also able to produce special drive end flange and shaft solutions for customized machinery. One example seen in the photograph is the solution for SEW Eurodrive who are a major supplier to the food and beverage industry. We can supply motors with the special shaft and flange required for this range of gearboxes to enable direct replacements without the need for adaptors.

WATER-COOLED STAINLESS STEEL MOTORS

(**TEWC** – **T**otally **E**nclosed **W**ater **C**ooled)

Due to their low surface temperature the TEWC-stainless motors are especially suitable for working environments where temperature sensitive (e.g. protein containing) products are processed.

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OPTIONAL FEATURES

SPECIAL ELECTRIC DESIGN

Windings can be spot-wound for special voltage and frequencies outside of the European standards and executed in thermal insulation up to class H (180°C). All standard windings are fitted with a certified insulation system according UL/CSA standards. Certificate 155-1.0 – E313095

ATEX

Zone 22 available for all frame sizes as TENV and TEFC

II 3D Ex tc IIIB T195°C Dc

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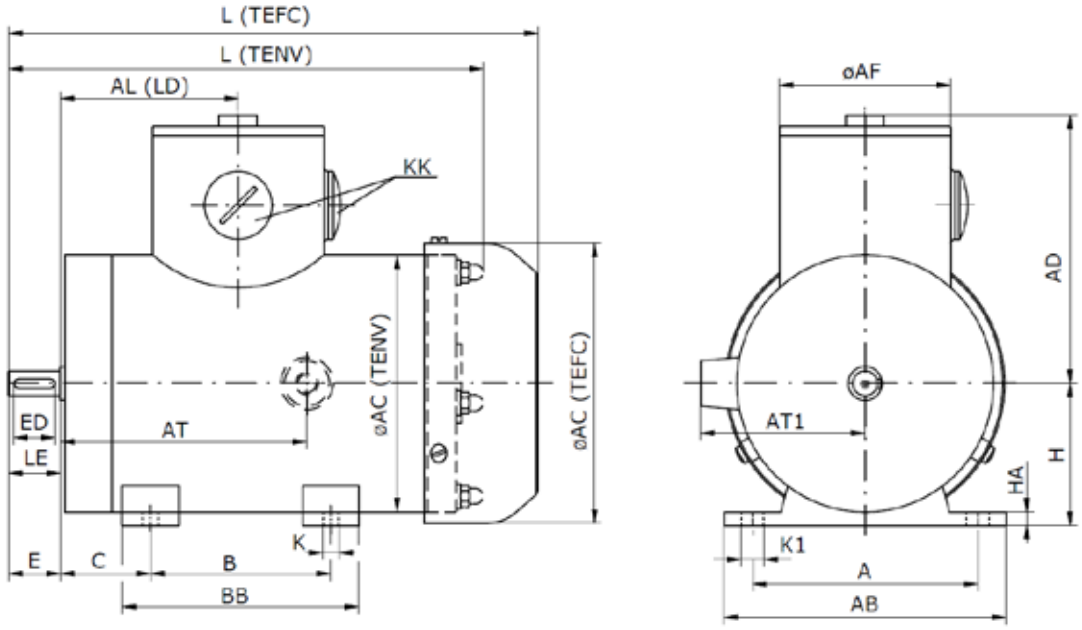
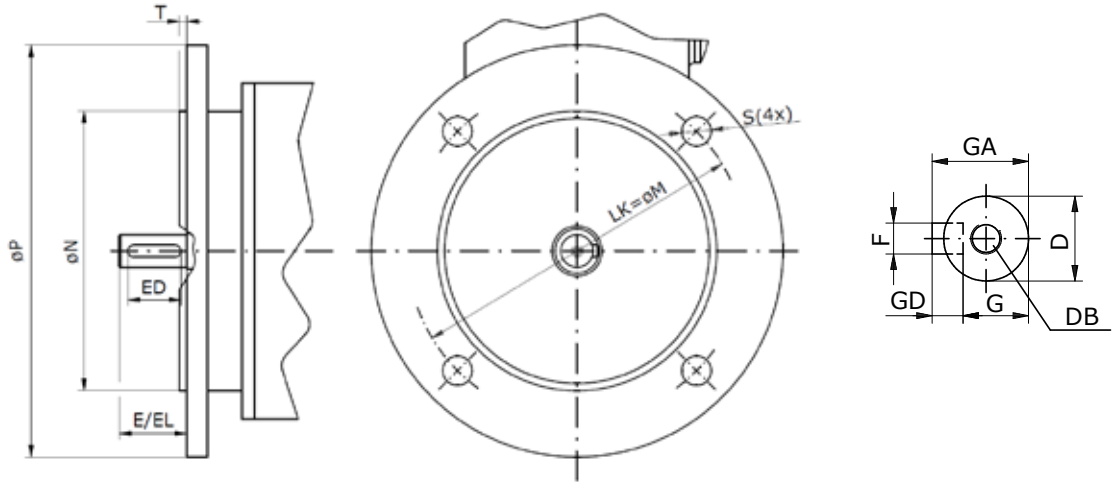
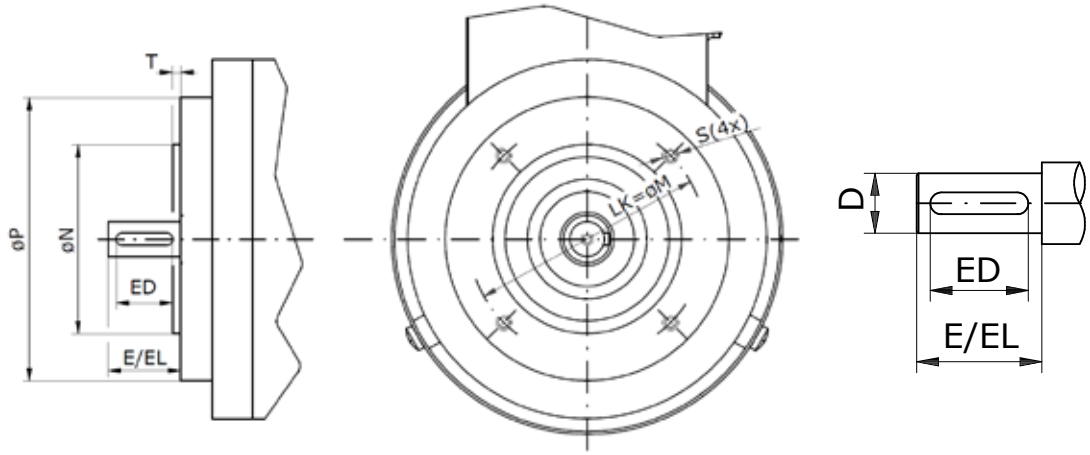
TECHNICAL DESIGN



MOUNTING B3



MOUNTING B5



MOUNTING B14

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DIMENSIONS

TENV – FRAME SIZE 63 TO 90 – MOUNTING B3

FS	Pole	A	B	C	D	E	F	G	H	K	K1	KK	AF	AB	BB	AC	AD	DB	ED	GA	GD	LE	L 2p	L 4p	L 6p
63-	2A	100	80	40	11	23	4	8,5	63	7	10	2 × M20	Ø76	125	105	114	111	M4	19	12,5	4	23	211	×	×
63-	2B, 4	100	80	40	11	23	4	8,5	63	7	10	2 × M20	Ø76	125	105	114	111	M4	19	12,5	4	23	236	236	×
71-#A	2,4,6	112	90	45	14	30	5	11	71	7	10	2 × M20	Ø76	140	115	134	124	M5	25	16	5	30	243	243	253
71-#B	2,4,6	112	90	45	14	30	5	11	71	7	10	2 × M20	Ø76	140	115	134	124	M5	25	16	5	30	273	254	273
80-#A	2,4,6	125	100	50	19	40	6	15,5	80	10	14	2 × M25	Ø89	150	125	144	135	M6	34	21,5	6	40	337	307	307
80-#B	2,4,6	125	100	50	19	40	6	15,5	80	10	14	2 × M25	Ø89	150	125	144	135	M6	34	21,5	6	40	337	347	367
90S-	4	140	100	56	19	50	6	16	90	9	9	2 × M25	Ø89	164	122	176	147	M8	27	27	7	50	×	378	×

TEFC – FRAME SIZE 80 TO 160 – MOUNTING B3

BG	Pole	A	B	C	D	E	F	G	H	K	K1	KK	AF	AB	BB	AC	AD	DB	ED	GA	GD	LE	L 2p	L 4p	L 6p
80-	2B	125	100	50	19	40	6	16	80	10	14	2 × M25	Ø89	150	125	156	135	M8	32	21,5	6	40	363	×	×
90S-#	2,4,6	140	100	56	24	50	8	20	90	9	9	2 × M25	Ø89	164	122	176	147	M8	40	27	7	50	372	353	392
90L-#	2,4,6	140	100	56	24	50	8	20	90	9	9	2 × M25	Ø89	164	122	176	145	M8	40	27	7	50	396	372	422
*100L-#	2,6	160	140	63	28	60	8	24	100	12	16	2 × M25	Ø114	190	170	203	165	M10	50	31	7	60	450	×	487
*100LA-	4	160	140	63	28	60	8	24	100	12	16	2 × M25	Ø114	190	170	203	165	M10	50	31	7	60	×	465	×
*100LB-	4	160	140	63	28	60	8	24	100	12	16	2 × M25	Ø114	190	170	203	165	M10	50	31	7	60	×	512	×
*112M-#	2,4	190	140	70	28	60	8	24	112	12	16	2 × M25	Ø114	220	180	218	176	M10	50	31	7	60	493	493	×
*132SA-	2	216	178	89	38	80	10	33	132	12	16	2 × M25	Ø114	246	218	258	197	M12	70	41	8	80	493	×	×
*132SB-	2	216	178	89	38	80	10	33	132	12	16	2 × M25	Ø114	246	218	258	197	M12	70	41	8	80	543	×	×
*132S-	4	216	178	89	38	80	10	33	132	12	16	2 × M25	Ø114	246	218	258	197	M12	70	41	8	80	×	543	×
*132M-	4	216	178	89	38	80	10	33	132	12	16	2 × M25	Ø114	246	218	258	197	M12	70	41	8	80	×	577	×
*160M-#	2,4	254	210	108	42	110	12	37	160	14,5	18,5	2 × M25	Ø114	314	260	315	224	M16	90	45	8	110	730	730	×
*160L-#	2,4	254	254	108	42	110	12	37	160	14,5	18,5	2 × M25	Ø114	314	260	315	224	M16	90	45	8	110	730	730	×

TENV – FRAME SIZE 63 TO 90

FS	Pole	D	E/EL	F	G	AL (LD)	AT	AT1	L 2p	L 4p	L 6p	B5 Flansch	B5 M (LK)	B5 N	B5 P	B5 S	B5 T	B14 Flansch	B14 M (LK)	B14 N	B14 P	B14 S	B14 T
63-	2A	11	23	4	8,5	79	×	×	211	×	×	FF115	115	95	140	10	2,5	FT75	75	60	90	M5	2,5
63-	2B / 4	11	23	4	8,5	79	×	×	236	236	×	FF115	115	95	140	10	2,5	FT75	75	60	90	M5	2,5
71-#A	2,4,6	14	30	5	11	88	×	×	243	243	253	FF130	130	110	160	10	3,5	FT85	85	70	105	M6	2,5
71-#B	2,4,6	14	30	5	11	88	×	×	273	254	273	FF130	130	110	160	10	3,5	FT85	85	70	105	M6	2,5
80-#A	2,4,6	19	40	6	15,5	99	×	×	337	307	307	FF165	165	130	200	12	3,5	FT100	100	80	120	M6	3
80-#B	2,4,6	19	40	6	15,5	99	×	×	337	347	347	FF165	165	130	200	12	3,5	FT100	100	80	120	M6	3
90S-	4	24	50	8	20	105	×	×	×	378	×	FF165	165	130	200	12	3,5	FT115	115	95	140	M8	3

TEFC – FRAME SIZE 80 TO 160

FS	Pole	D	E/EL	F	G	AL (LD)	AT	AT1	L 2p	L 4p	L 6p	B5 Flansch	B5 M (LK)	B5 N	B5 P	B5 S	B5 T	B14 Flansch	B14 M(LK)	B14 N	B14 P	B14 S	B14 T
80-	2B	19	40	6	16	99	×	×	363	×	×	FF165	165	130	200	12	3,5	FT100	100	80	120	M6	3
90S-#	2,4,6	24	50	8	20	105	×	×	372	352	392	FF165	165	130	200	12	3,5	FT115	115	95	140	M8	3
90L-#	2,4,6	24	50	8	20	105	×	×	396	372	422	FF165	165	130	200	12	3,5	FT115	115	95	140	M8	3
*100L-#	2,6	28	60	8	24	123	173	125	450	×	487	FF215	215	180	250	15	4	FT130	130	110	160	M8	3,5
*100LA-	4	28	60	8	24	123	180,5	125	×	465	×	FF215	215	180	250	15	4	FT130	130	110	160	M8	3,5
*100LB-	4	28	60	8	24	123	203	125	×	512	×	FF215	215	180	250	15	4	FT130	130	110	160	M8	3,5
*112M-#	2,4	28	60	8	24	133	198	133	493	493	×	FF215	215	180	250	15	4	FT130	130	110	160	M8	3,5
*132SA-	2	38	80	10	33	132	194,5	151	493	×	×	FF265	265	230	300	15	4	FT165	165	130	200	M10	3,5
*132SB-	2	38	80	10	33	132	207	151	543	×	×	FF265	265	230	300	15	4	FT165	165	130	200	M10	3,5
*132S-	4	38	80	10	33	132	207	151	×	497	×	FF265	265	230	300	15	4	FT165	165	130	200	M10	3,5
*132M-	4	38	80	10	33	132	222	151	×	577	×	FF265	265	230	300	15	4	FT165	165	130	200	M10	3,5
*160M/L-#	2,4	42	110	12	37	167	288	170	730	730	×	FF300	300	250	350	19	5	FT215	215	250	298	M12	5

* Beginning with frame size 100 a mounting device for an eye bolt with thread size M10 is installed.

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CLEAN REGULATIONS

The european standard **EN 1672-2**, which defines hygiene requirements for the food production machinery, specifies three zones for the industry:

1 FOOD ZONE

2 SPLASH ZONE

3 NON-FOOD ZONE

The non-food zone covers components which do not come in contact with foodstuffs. It is nevertheless still mandatory to use corrosion-resistant materials in the non-food zone.

CLEAN IN PLACE

When food, beverage or pharmaceutical production plants are washed down, the motors can be subjected to high pressure jets of sometimes high-temperature water, or aggressive cleaning agents. Depending upon the severity of this washdown, many consequences can occur including failure of the motor on start up due to ingress of water, corrosion of exterior or internal parts that use standard alloy or cast iron material and potential for paint flaking and contaminating the final product itself.

DESIGN WITH STANDARDS IN MIND

DIN EN ISO 14159
Safety of machinery. Hygiene requirements for the design of machinery. Installations represent potential hygiene risks to food consumers. The standard specifies measures to avoid risks which must be taken by manufactur

DIN EN 1672-2:2005+A1:2009
Food processing machinery. Basic concepts. Hygiene requirements. It also contains general notes on the special requirements relating to the preferred equipment materials

ISO 11664-2:2007 (CIE S 014-2/E:2006)
Standard for cleaning and disinfection.

ISO 8086:2004 (IDF 121:2004)
Dairy plant. Hygiene conditions. General guidance on inspection

FRAME SIZE	DRIVE END	NON-DRIVE END
63	6202	6202
71	6203	6203
80	6204	6204
90	6205	6205
100	6306	6306
112	6306	6306
132	6308	6208
160	6210	6210

BEARINGS

The bearings used in the **Kaiser stainless range** have special synthetic high-temperature lubrication grease. Alternatively customized greasing (e.g. different temperature range, grease with H1-certificate for food industry applications) is available. Fixed bearings at the drive end side to reduce axial shaft movement make the motors suitable for mixers and direct coupled pumps.

SAFETY STANDARDS

Our motors comply with the requirements of the international standard IEC 60034 for rotating electrical machines as well as the following European directives:

Low Voltage Directive (LV) 2014/35/EU, Electromagnetic Compatibility Directive (EMC) 2014/30/EU and RoHS-Directive 2011/65/EU on the restriction of hazardous substances in electrical and electronic equipment.

All products comply with the Machinery Directive (MD) 2006/42/EU. In accordance with this directive, induction motors are components intended solely for integration into other machines. Commissioning is forbidden until conformity of the end product with this directive is proven.

The CE marking was applied for the first time in 1995.

When operating the motor, the observance of the regulation EN 60204-1 and safety instructions indicated in our operating instructions must be complied with.

Additionally the motors are assembled according to other international standards:

The motors are delivered with an insulation system certified by Underwriters Laboratories Inc. (UL).

The ATEX-certificate according to EN 60079-31 for Zone 22 completes the product standards.

All technical data, outputs, dimensions and weights stated in this catalogue are subject to be changed without prior notice. The illustrations are non-binding.

Kaiser-Motoren GmbH is ISO 9001:2015 certified company.

Kaiser-Motoren

Ein Unternehmen der PEJA-Gruppe

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