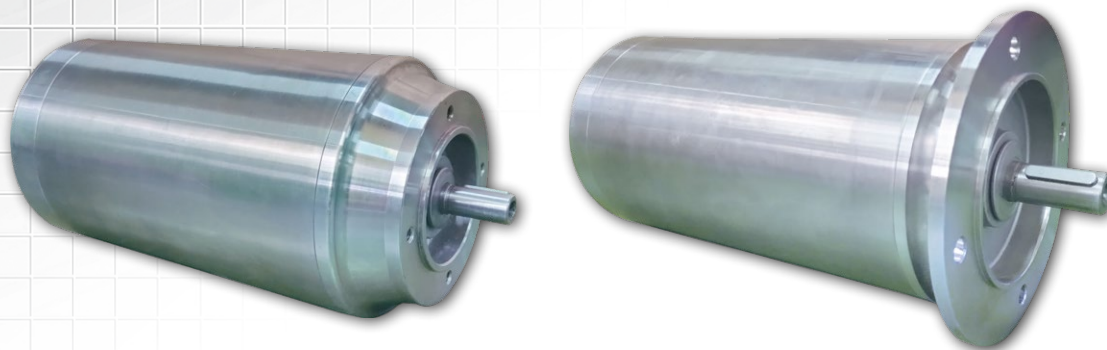


# TSSN series

## Hygienic Motors IP69K in stainless steel AISI 316L



- 0,12..1,5kW – 4 poles
- IEC 63..90 B5 B14
- $\Delta/Y$  230/400V/50Hz
- Protection grade IP69K
- Class F – IC410 - SERVICE S1
- Stainless steel 316L
- Efficiency class IE3

Motors in stainless steel AISI 316L for the food, pharmaceutical industries and other applications which require extreme cleaning and frequent washing.

The entire design of the motor TSSN has been studied so that the processing waste can be washed away without leaving residues and the motor can be used with trust in food and pharmaceutical production processes where it is essential to ensure maximum hygiene.

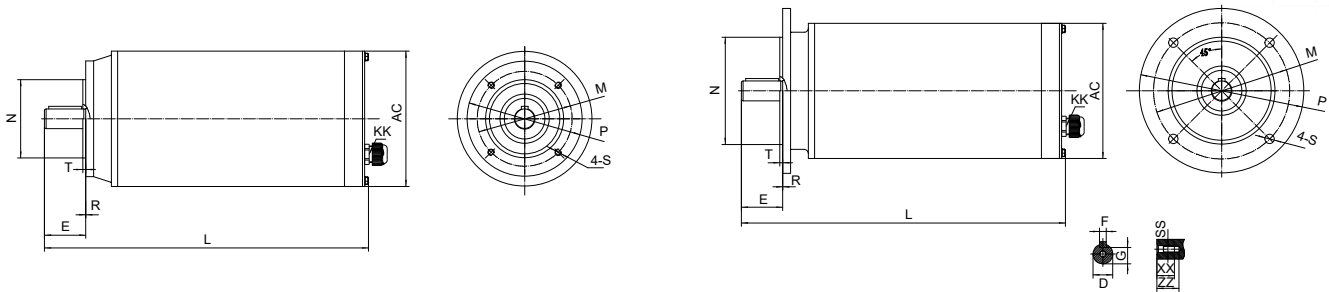
When the processing machines of food, beverage, pharmaceutical and cosmetic products are washed, the motors, together with other mechanical parts are often exposed to high pressure water jets, high temperatures and aggressive detergents.

The motors TSSN in stainless steel of TECHTOP can resist to these operating conditions, which normally damage other types of motors and can even contaminate the final product.

Unlike the standard motors, in fact, the TSSN range does not have cooling wings, the surface is completely rust-resistant and without paint, and the marking is engraved on the outer back cover to reduce areas where bacteria can form.

# Structural Characteristics

- All external components made of stainless steel AISI 316L;
- Motor shaft in stainless steel AISI 420 with magnetic properties;
- Screws in AISI316L;
- Not painted, in order to avoid possibility of paint crack;
- All the surfaces are completely smooth;
- These elements guarantee excellent corrosion resistance, reliability and maximum hygiene.
- Tubular casing without welding, back connection box, attractive look
- Stator and rotor coated with antioxidant paint
- Sealing ring and O-Rings in Viton guarantee a degree of protection IP69K
- The motors are suitable for operation with INVERTER with a wide range of constant torque, thanks to low-loss rollers, impregnation of vacuum coils, inverter duty copper wire.
- The motors TSSN are certified for IP69K protection degree according to DIN 40050 / IEC60529, which can resist to high pressure washing and steam cleaning up to 80-100bar with water of 80°C
- Completely enclosed non-ventilated (IC410) and completely smooth surfaces for ultra-hygienic clean lines



## Overall & Installation Dimensions

Frame	Shaft							B5						B14						General				
	D	E	F	G	SS	XX	ZZ	N	M	P	S	T	R	N	M	P	S	T	R	Bearing DE	Bearing ODE	KK	AC	L
631-4/632-4	Ø11	23	4	8.5	M4	10	14	Ø95	Ø115	Ø140	Ø10	3	0	Ø60	Ø75	Ø90	M5	2.5	0	6202	6202	M16 x 1.5	Ø134	231/246
711-4/712-4	Ø14	30	5	11	M5	12	17	Ø110	Ø130	Ø160	Ø10	3.5	0	Ø70	Ø85	Ø105	M6	2.5	0	6202	6202	M20 x 1.5	Ø134	268/288
801-4/802-4	Ø19	40	6	15.5	M6	16	21	Ø130	Ø165	Ø200	Ø12	3.5	0	Ø80	Ø100	Ø120	M6	3	0	6205	6203	M20 x 1.5	Ø164	275/300
90S-4/90L-4	Ø24	50	8	20	M8	19	25	Ø130	Ø165	Ø200	Ø12	3.5	0	Ø95	Ø115	Ø140	M8	3	0	6205	6203	M20 x 1.5	Ø164	355/400

## TSSN Series Technical Data (at 50Hz)

TYPE	POWER		Volt	Hz	PF	EFF%			FLA	r/min	Ts/Tn	Tmax/Tn	Tmin/Tn	Is/In	Tn n.m	Moment of inertia [kgm <sub>2</sub> ]
	HP	k W				100%	75%	50%								
TSSN631-4	1/6	0.12	230/400	50	0.63	76	73	67	0.63/0.36	1455	3.2	3.9	3.1	6.3	0.79	0.0010
TSSN632-4	1/4	0.18	230/400	50	0.64	78	76	71	0.91/0.52	1455	3.2	3.9	3.1	6.6	1.18	0.0013
TSSN711-4	1/3	0.25	230/400	50	0.70	80	79	75	1.12/0.64	1445	3.1	3.8	3	6.9	1.65	0.0016
TSSN712-4	1/2	0.37	230/400	50	0.73	80.5	79.5	76	1.58/0.91	1445	3.1	3.8	3	7.1	2.45	0.0019
TSSN801-4	3/4	0.55	230/400	50	0.74	84	83.5	81	2.22/1.28	1450	2.8	3.7	2.3	7.6	3.62	0.0032
TSSN802-4	1	0.75	230/400	50	0.77	85	85.5	84	2.88/1.65	1450	2.8	3.7	2.6	7.9	4.94	0.0043
TSSN90S-4	1.5	1.1	230/400	50	0.77	87	87.5	86	4.12/2.37	1450	3.3	4	2.8	9.0	7.24	0.0059
TSSN90L-4	2	1.5	230/400	50	0.77	87.5	88	87	5.59/3.21	1450	4.0	4.5	2.9	9.2	9.88	0.0078