selpee®
S.p.A. ELECTRIC MOTORS

MAAT

Hygienic Washdown Electric Motors - IP69K

Stainless Steel Washdown Electric Motors and
Aluminum NTT® Washdown Electric Motors

RUST NO MORE

MAAT

Hygienic Washdown IP69K Electric Motors

IP69 K
DIN 40050/IEC60529

IE3 Efficiency from 0,75 kW

Suitable for Inverter Duty Operation

Hygienic cable gland certified <<EH ED6>>

Smooth tubular casing without welding

Back terminal box for easy connection

Suitable for:
Food Processing and Handling, Pharmaceutical Industry and other applications requiring extreme hygiene and very frequent washdowns.

To meet specific needs of all industrial applications, MAAT electric motors come in **2 different materials**:
Stainless Steel and **NTT® Aluminum**.

Stainless Steel 316L - **1st** Option

0,12 - 1,5kW

Very High
Resistance to
Corrosive Agents

4 poles
IEC 63 to 90 B5 B14, NEMA 56C
IP69K degree of protection
Class F – IC410 - DUTY S1
Stainless Steel 316L IE3

Aluminum NTT® - **2nd** Option

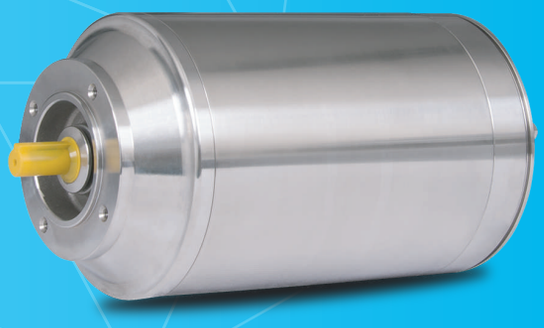
0,12 - 1,5kW

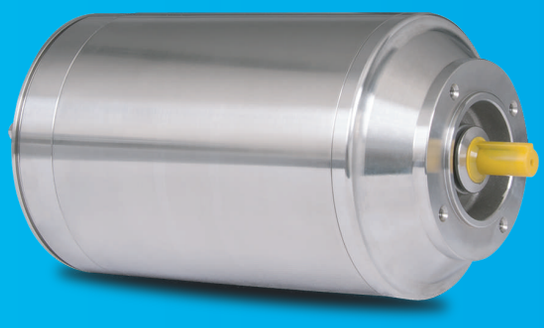
Moderately High
Resistance to
Corrosive Agents

4 poles
IEC 63 to 90 B14
IP69K degree of protection
Class F – IC410 - DUTY S1
Aluminum «Hi-Cleaning» IE3
with NTT coating

MAAT

Hygienic Washdown IP69K Electric Motors





Stainless Steel 316L «PREMIUM» motors

Aluminum NTT ® «PREMIUM» motors

When **food, beverage or pharmaceutical** production plants are washed down, the motors are often subjected to **high pressure and high temperature water** jets and aggressive cleaning agents.

MAAT Stainless Steel Motors AISI 316L

MAAT stainless steel motors can withstand the most aggressive operating conditions, that on the contrary can damage other kind of motors, or even contaminate the end product.
MAAT motors are specially designed to reduce areas where bacteria can lurk and waste products can be washed away easily leaving no residue.

MAAT Aluminum NTT ® "Hi-Cleaning" motors

MAAT aluminum motors are recommended where there are no extreme conditions that require a stainless steel solution.
These motor are painted with a **patented "Hi-Cleaning" coating NTT ®** with nano particles, which make the surface very easy to clean and resistant to major aggressive agents used in sanitizing.
This **innovative coating** can withstand corrosive agents, dirt, abrasion and it complies with UNI EN1186/1:2003 Materials and articles in contact with foodstuffs and European directives 2002/72/CEe 1935/2004/CE.

More technical features:

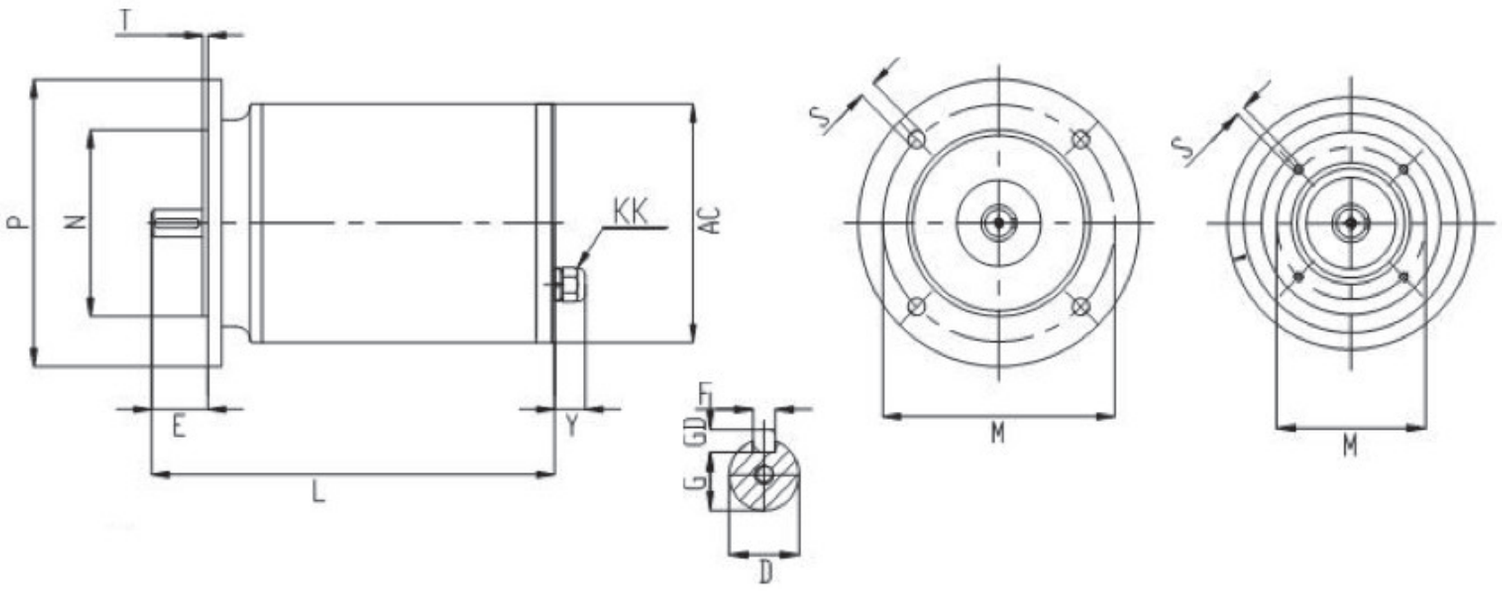
- ✔ Motor shaft is in 420 stainless steel with magnetic properties
- ✔ All screws in 316L stainless steel
- ✔ Sealing with O-Ring Viton on all couplings
- ✔ Totally enclosed non ventilated (IC410)
- ✔ Nameplate laser printed on the back cover
- ✔ No paint that flakes off
- ✔ PTO equipped as standard

Excellent resistance to corrosion, a reliable and durable solution where hygiene is essential.

p_N	Motor		n_N	M_N	I_N	$\cos\varphi$		η			M_S/M_N	M_{max}/M_N	I_S/I_N	J_O	W B14	W B5 *
[kW]			[min^{-1}]		[A]			100%	75%	50%				[kg m^2]	[kg]	[kg]
0,12	MAAT 63 A	4	1440	0,8	0,44	0,57	-	72,0	-	-	3,5	4,5	7,5	0,0011	8,7	9,4
0,18	MAAT 63 B	4	1440	1,2	0,58	0,62	-	75,0	-	-	3,5	4,5	7,5	0,0015	10	10,7
0,25	MAAT 71 A	4	1440	1,7	0,7	0,64	-	77,0	-	-	4,0	5,0	8,0	0,0018	11,6	12,5
0,37	MAAT 71 B	4	1440	2,5	1,1	0,64	-	79,0	-	-	4,0	5,0	8,0	0,0023	13,5	14,4
0,55	MAAT 80 A	4	1460	3,6	1,5	0,67	-	81,0	-	-	4,5	5,4	9,0	0,0041	19	21
0,75	MAAT 80 B	4	1460	4,9	2,1	0,67	IE3	82,5	80,9	77,8	4,9	5,6	8,4	0,0053	22	24
1,1	MAAT 90 S	4	1460	7,2	2,9	0,70	IE3	84,1	81,8	80,7	4,8	6,0	9,0	0,0075	27	28,5
1,5	MAAT 90 L	4	1460	9,8	4,0	0,70	IE3	85,3	83,7	83,2	4,8	6,0	9,5	0,010	33	34,5

*** stainless steel option only.**

Size	Bearings		CableGlands	IMB5						IMB14					
	DE	NDE	KK	M	N	P	R	n xS	T	M	N	P	R	n xS	T
63	6202 2RZ	6202 2RZ	M16X1.5	115	95 J6	140	≤0	4x10	3	75	60 j6	90	≤0	4xM5	2,5
71	6202 2RZ	6202 2RZ	M20X1.5	130	110 J6	160	≤0	4x10	3,5	85	70 j6	105	≤0	4xM6	2,5
80	6205 2RZ	6203 2RZ	M20X1.5	165	130 J6	200	≤0	4x12	3,5	100	80 j6	120	≤0	4xM6	3
90S/L	6205 2RZ	6203 2RZ	M25X1.5	165	130 J6	200	≤0	4x12	3,5	115	95 j6	140	≤0	4xM8	3



Size	Shaft					General		
	D	E	F	G	GD	AC	Y	L
63A	11 J6 M4	23	4	8,5	4	131	22	229
63B								244
71A	14 J6 M5	30	5	11	5	131	25	266
71B								286
80A	19 J6 M6	40	6	16	6	166	25	280
80B								305
90S	24 J6 M8	50	8	20	7	166	30	345
90L								390

NEW ENERGY FOR YOUR BUSINESS

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