MADE IN ITALY

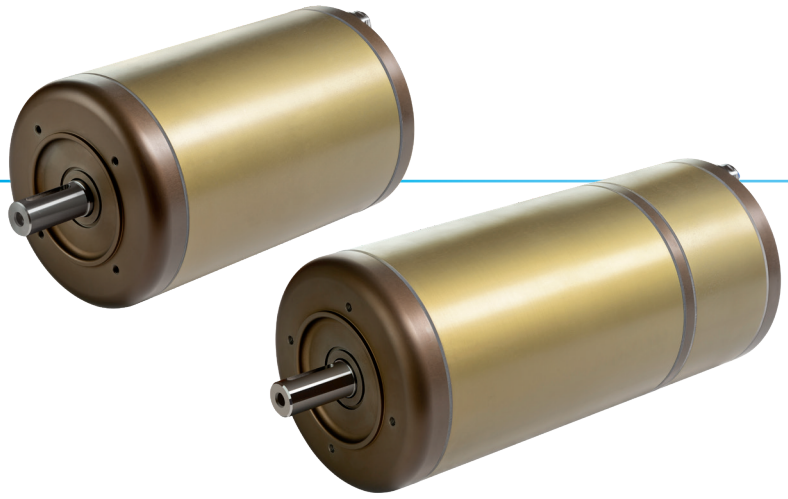
Hygienic LINE

HYGIENIC WASHDOWN MOTORS

GHA

Carpanelli
Motori elettrici

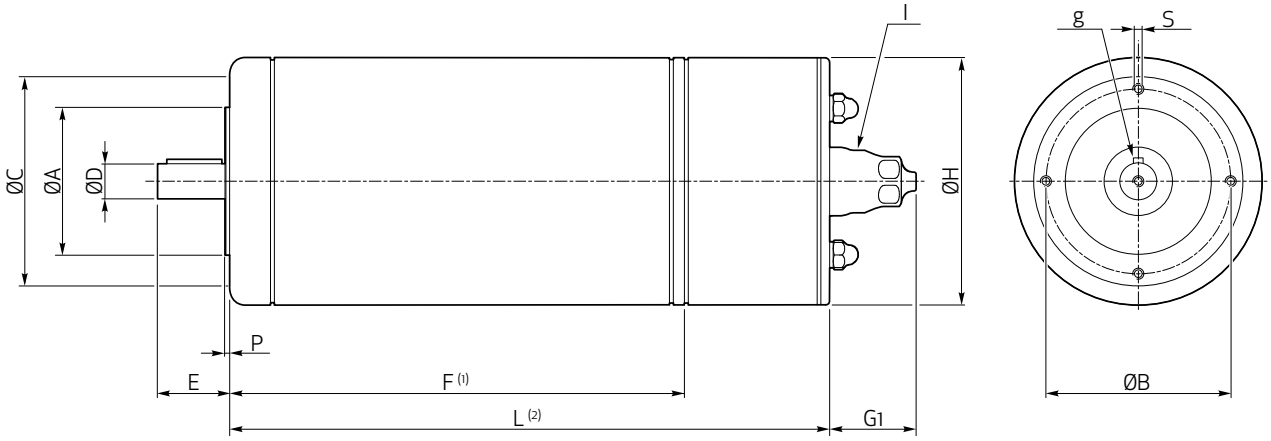
GHA



New motor line with **silver treatment**, patented by Carpanelli Motori Elettrici S.p.A.

This new **silver treatment** created for aluminium alloy motors, gives the motors **antibacterial properties** and as such offers a **valid alternative to stainless steel motors** or indeed other expensive treatments. These motors are perfect for those industries, such as **food** and **pharmacautical**, where a clean and aseptic environment is needed.

- **Resistance to corrosive agents,** bringing the motors to the same level as stainless steel motors;
- **Better electrical and thermal conductivity,** allowing the motor to dissipate 35% more heat than non-treated aluminium, and 10 times more than stainless steel;
- **Anti-mould and germicidal properties**, making these motors suitable for aseptic environments than stainless steel motors;
- **High resistance to abrasive wear**;
- **High hardness**.



GHA	B14													B14 oversize							
	A j6	B	C	D j6	E	g	F (1)	L (2)	G1	H	I	P	S	A j6	B	C	D j6	E	g	P	S
MHA63	60	75	90	11	23	4	223	288	41	118	M20x1.5	2	M5	70	85	105	14	30	5	2.5	M6
MHA71	70	85	105	14	30	5	234	310.5	41	134	M20x1.5	2.5	M6	80	100	120	19	40	6	3	M6
MHA80	80	100	120	19	40	6	259	335	41	150	M20x1.5	3	M6	95	115	140	24	50	8	3	M8
MHA90	95	115	140	24	50	8	327	421	41	190	M20x1.5	3	M8	110	130	160	28	60	8	3.5	M8

GHA	B5												
	A j6	B	C	D j6	E	g	F (1)	L (2)	G1	H	I	P	S
MHA90	130	165	200	24	50	8	327	421	41	190	M20x1.5	3.5	M10

(1): Standard motor.
(2): Motor with additional features.

GHA

• Germicidal properties against the principal bacteria dangerous to the human organism;
• Lower weight, because aluminium weights 1/3 of stainless steel;
• Non-magnetic and therefore capable of resisting high voltages;
• High thermal conductivity (204 W/m °C) compared to stainless steel (15 W/m °C), almost 15 times more;
• Higher motor efficiency - IE4, the greater heat dissipation of aluminium keeps the motor cooler and, consequently, the lower instrinc resistance, keeps the motor's efficiency constant;
• Lower price, because we avoid the high costs of stainless steel and its processings.
• Nickel free;
• Safe and sterile.

IE4	Type	Nominal Power Pn [kW]	Pn [Hp]	Speed n [rpm]	Efficiency μ [%IE4]	Nominal Current An [A]	Power Factor Cos φ -	Nominal Torque Cn [Nm]	Starting Ratio Cs/Cn -	Starting Ratio As/An -
2 POLES	MHA63a2	0.13	0.18	2850	67.4	0.37	0.77	0.43	4	7.56
	MHA63b2	0.18	0.25	2850	70.8	0.48	0.77	0.6	4.2	6.36
	MHA63c2	0.25	0.37	2880	74.3	0.58	0.81	0.84	4.5	7.9
	MHA71a2	0.25	0.37	2850	74.3	0.62	0.76	0.84	4.15	6.92
	MHA71b2	0.37	0.5	2850	78.1	0.91	0.76	1.24	4.25	7.23
	MHA80a2	0.5	0.75	2850	80.8	1.1	0.82	1.67	4	7
	MHA80b2	0.75	1	2850	83.5	1.54	0.86	2.5	3.6	6.9
	MHA90a2	1.1	1.5	2870	85.2	2.32	0.81	3.66	5.22	8.27
	MHA90b2	1.5	2	2900	86.5	3.25	0.78	5	4.79	9.83
4 POLES	MHA63a4	0.13	0.18	1400	70.9	0.38	0.73	0.88	3.55	6.4
	MHA63b4	0.18	0.25	1420	74.5	0.49	0.73	1.25	3.78	6.4
	MHA63c4	0.25	0.37	1425	77.9	0.68	0.69	1.69	4.09	6.29
	MHA71a4	0.25	0.37	1450	77.9	0.66	0.73	1.66	4.5	7.6
	MHA71b4	0.37	0.5	1440	81.1	0.83	0.79	2.44	4.63	8.34
	MHA80a4	0.5	0.75	1450	83.2	1.24	0.71	3.3	5.25	8.43
	MHA80b4	0.75	1	1450	85.7	1.77	0.72	4.95	5.8	8.52
	MHA90a4	1.1	1.5	1450	87.2	2.28	0.79	7.3	4.2	8.9
	MHA90b4	1.5	2	1460	88.2	3.16	0.77	9.85	4.9	10
6 POLES	MHA63a6	0.13	0.18	880	65.9	0.42	0.69	1.41	1.63	1.67
	MHA63b6	0.18	0.25	850	70.1	0.56	0.7	1.95	2.6	3
	MHA71a6	0.18	0.25	890	70.1	0.54	0.7	1.93	2.8	3.2
	MHA71b6	0.25	0.37	900	74.1	0.52	0.7	2.65	3.2	3.4
	MHA80a6	0.37	0.5	890	78	1.24	0.71	3.97	1.7	3.4
	MHA80b6	0.5	0.75	900	80.9	1.25	0.72	5.3	2.4	3.7
	MHA90a6	0.75	1	920	82.7	1.42	0.76	7.78	2.4	4.72
	MHA90b6	1.1	1.5	930	84.5	2.44	0.78	11.29	2.86	5.1

WARNING: Technical data reported in the table refer to voltage 230/400V, 50Hz.

Different voltages only on request.

IE4 IP69K PATENTED Nickel Free

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