



**Motori in C.C. a 2 poli
2 poles d.c. motors**

**MM 80
MM 90
MM 102**

Dati generali

General features

Motore Motor	Pacco Lenght	Max potenza eccitazione Max excitation power	Momento di inerzia Moment of inertia	Dimensioni spazzole Brushes dimensions	Cuscinetto lato accoppiamento Drive end bearing		Cuscinetto lato collettore No-drive end bearing	Peso Weight
					Sfere / Balls	Rulli / Rollers		
		W	kgm ²	mm x mm x mm				kg
MM 80	S	200	0.0056	16 x 10 x 25 o 16 x 20 x 32	6305 2Z	NU 305	6305 2Z	35
	M	225	0.0077					40
	P	275	0.0142					50
MM 90	M	255	0.0124	16 x 10 x 25 o 16 x 20 x 32	6206 2Z	NU 206	6305 2Z	65
	P	310	0.0247					78
MM 102	M	360	0.029	16 x 20 x 32	6307 2Z	NU 307	6305 2Z	84
	P	430	0.039					120

Ventilazione

Cooling

Motore (motore e.v.) Motor (e.f. motor)	Potenza Power		Tensione Voltage	Corrente Current	Velocità Speed	Freq. Freq.	Colleg. Conn.	Rumorosità* Noise*	Portata d'aria Air flow	Prevalenza Pressure
	kW	HP								
MM 80 (56/B2)	0.13	0.18	360-415	0.73	2760	50	Y	71	250	45
	0.13	0.18	210-240	1.23	2760	50	Δ			
	0.14	0.20	380-480	0.73	3310	60	Y			
MM 90 (63/B2)	0.14	0.20	220-280	1.23	3310	60	Δ	71	300	55
	0.18	0.24	315-500	0.70	2800	50	Y			
	0.18	0.24	180-290	1.20	2800	50	Δ			
	0.20	0.27	380-600	0.70	3400	60	Y			
MM 102 (63/B2)	0.20	0.27	215-350	1.20	3400	60	Δ	73	450	60
	0.18	0.24	315-500	0.70	2800	50	Y			
	0.18	0.24	180-290	1.20	2800	50	Δ			
	0.20	0.27	380-600	0.70	3400	60	Y			
	0.20	0.27	215-350	1.20	3400	60	Δ			

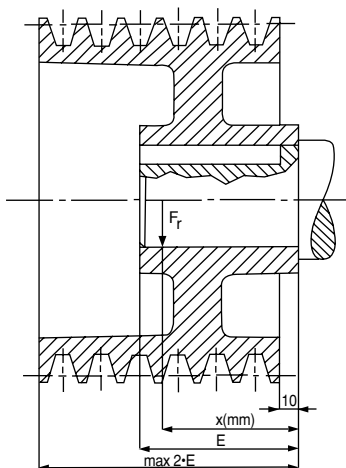
*: Riferito ad alimentazione 400V – 50 Hz

*: Referred to power supply of 400V – 50 Hz

Carico radiale (Newton) ammissibile per una durata teorica del cuscinetto lato accoppiamento di 20.000 ore
Admitted radial load (Newton) for a theoretic 20.000 hours of the drive end bearing

$$Fr = 19.5 \cdot 10^6 \cdot \frac{P}{D \cdot n} \cdot K$$

$$Fr = 19.5 \cdot 10^6 \cdot \frac{P}{D \cdot n} \cdot K$$



dove:

Fr = carico radiale N
P = potenza nominale in kW
n = velocità nominale in RPM
D = diametro della puleggia in mm
K = fattore di tensione fornito dal costruttore della puleggia e valutabile mediamente in:

k = 1.0 per cinghie dentellate
k = 2.3 per cinghie trapezoidali
k = 3.8 per cinghie piane

where:

Fr = radial load (N)
P = motor rating (kW)
n = motor rated speed (RPM)
D = pulley's diameter (mm)
k = tension factor indicated by the pulley manufacturer and corresponding averagely to:

k = 1.0 for toothed belts
k = 2.3 for V belts
k = 3.8 for flat belts

Motore Motor	Cuscinetto lato acc. Drive end bearing	Velocità [g./min] Speed [RPM]	200	400	600	1000	1200	1500	2000	2500	3000	3500	4000	
		x [mm]	Fr [N]											
MM 80	6305 2Z *	0	2400	2400	2060	1670	1560	1430	1260	1150	1080	1020	960	
		20	1490	1490	1490	1490	1490	1370	1200	1100	1040	960	920	
		30	1180	1180	1180	1180	1180	1180	1180	1070	1000	940	890	
		40	980	980	980	980	980	980	980	980	980	980	920	870
		50	900	900	900	900	900	900	900	900	900	900	900	850
	NU 305	0	2400	2400	2400	2400	2400	2400	2320	2100	1980	1900	1790	
		20	1490	1490	1490	1490	1490	1490	1490	1490	1490	1490	1490	
		30	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	
		40	980	980	980	980	980	980	980	980	980	980	980	
		50	900	900	900	900	900	900	900	900	900	900	900	
MM 90	6206 2Z *	0	2500	1930	1650	1320	1230	1120	970	870	820	760	630	
		20	2370	1820	1550	1240	1160	1050	900	820	770	700	660	
		40		1700	1420	1160	1080	1000	850	770	720	660	620	
		60			1380	1100	1030	920	800	720	670	620	500	
		80												
	NU 206	0	3600	2850	2520	2080	1920	1780	1630	1500	1410	1330	1260	
		20	3400	2700	2380	1950	1850	1700	1530	1420	1330	1250	1190	
		40				1840	1750	1600	1440	1330	1240	1180	1110	
		60						1520	1350	1250	1170	1100	1050	
		80												
MM 102	6307 2Z *	0	4850	3800	3250	2760	2550	2370	2150	1980	1860	1710	1640	
		20	4690	3680	3150	2670	2470	2300	2080	1920	1800	1650	1590	
		40	4540	3570	3050	2590	2390	2230	2010	1860	1740	1600	1540	
		60	4400	3460	2950	2510	2320	2160	1950	1800	1690	1550	1490	
		80	4270	3350	2870	2430	2250	2090	1890	1750	1640	1500	1450	
	NU 307	0	11160	9040	7970	6820	6460	6020	5520	5160	4840	4640	4450	
		20	9740	8610	7590	6500	6150	5730	5260	4910	4610	4410	4230	
		40	7140	7140	7140	6200	5870	5470	5020	4690	4400	4210	4040	
		60	5640	5640	5640	5640	5620	5230	4800	4490	4210	4030	3870	
		80	4650	4650	4650	4650	4650	4650	4600	4300	4030	3860	3700	

La soluzione standard prevede il cuscinetto a sfere (*).
Cuscinetto a rulli a richiesta (serie NU).

Standard solution foresees ball bearing (*).
Roller bearing only on request (NU series).

MM 80 S - IP23 PVA

	VELOCITÀ [RPM] ALLE TENSIONI						P [kw]	I [A]	η	ARMATURA	
	160V	220V	260V	330V	400V	440V				L [mH]	R ₁₁₅ [Ω]
E	2870						3.2	26.7	0.760	4.8	0.82
F	2540						2.9	23.9	0.746	5.9	1.0
		3680					4.1	23.9	0.782		
G	2280						2.7	22.4	0.741	7.1	1.1
		3320					3.9	22.4	0.781		
H	2050						2.4	20.4	0.727	8.5	1.4
		3010					3.5	20.4	0.771		
			3640				4.2	20.4	0.788		
I	1850						2.1	18.5	0.711	10	1.7
		2730					3.1	18.5	0.760		
			3320				3.7	18.5	0.778		
J	1710						2.0	17.8	0.707	12	1.8
		2520					3.0	17.8	0.758		
			3070				3.6	17.8	0.779		
K	1550						1.8	16.3	0.689	13	2.2
		2310					2.7	16.3	0.744		
			2820				3.2	16.3	0.767		
				3710			4.2	16.3	0.791		
L	1420						1.6	15.0	0.669	15	2.6
		2130					2.4	15.0	0.730		
			2610				2.9	15.0	0.755		
				3440			3.9	15.0	0.781		
M	1320						1.5	14.5	0.664	17	2.7
		1990					2.3	14.5	0.728		
			2440				2.8	14.5	0.753		
				3220			3.7	14.5	0.781		

	VELOCITÀ [RPM] ALLE TENSIONI						P [kw]	I [A]	η	ARMATURA	
	160V	220V	260V	330V	400V	440V				L [mH]	R ₁₁₅ [Ω]
N	1130						1.3	13.0	0.636	19	3.5
		1730					2.0	13.0	0.708		
			2130				2.5	13.0	0.736		
				2830			3.3	13.0	0.770		
O					3540		4.1	13.0	0.789	26	4.3
	970						1.1	11.7	0.605		
		1520					1.8	11.7	0.686		
			1880				2.2	11.7	0.718		
P				2510			2.9	11.7	0.754	31	5.2
					3150		3.6	11.7	0.778		
						3510	4.0	11.7	0.787		
Q	850						1.0	10.5	0.577	40	6.8
		1340					1.5	10.5	0.665		
			1680				1.9	10.5	0.701		
				2250			2.6	10.5	0.741		
R				2840			3.2	10.5	0.767	43	7.9
					3170		3.6	10.5	0.777		
	690						0.8	9.3	0.533		
		1130					1.3	9.3	0.633		
S				1940			1.6	9.3	0.674	53	8.8
					2450		2.2	9.3	0.721		
						2740	2.8	9.3	0.750		
							3.1	9.3	0.763		
T	630						0.7	8.6	0.503	65	11.5
		1050					1.2	8.6	0.610		
			1340				1.5	8.6	0.654		
				1830			2.0	8.6	0.704		
U				2330			2.5	8.6	0.736	77	13.2
					2610		2.8	8.6	0.750		
V										90	16

MM 80 M - IP23 PVA

	VELOCITÀ [RPM] ALLE TENSIONI						P [kw]	I [A]	η	ARMATURA	
	160V	220V	260V	330V	400V	440V				L [mH]	R ₁₁₅ [Ω]
C	2960						4.3	33.8	0.798	3.5	0.5
D	2530						3.5	28.3	0.777	4.6	0.7
		3630					5.1	28.3	0.811		
E	2200						3.1	25.3	0.766	5.8	0.9
		3190					4.5	25.3	0.801		
F	1940						2.7	22.7	0.750	7.2	1.1
		2830					3.9	22.7	0.791		
			3420				4.8	22.7	0.808		
G	1750						2.5	21.2	0.744	8.7	1.3
		2550					3.7	21.2	0.788		
			3090				4.4	21.2	0.805		
H	1570						2.2	19.3	0.729	10	1.6
		2310					3.3	19.3	0.778		
			2800				4.0	19.3	0.796		
				3660			5.2	19.3	0.819		
I	1410						2.0	17.5	0.711	12	1.9
		2100					3.0	17.5	0.766		
			2550				3.6	17.5	0.785		
				3350			4.7	17.5	0.810		
J	1300						1.9	16.9	0.706	14	2.0
		1930					2.8	16.9	0.762		
			2350				3.4	16.9	0.785		
				3090			4.5	16.9	0.809		
K	1180						1.7	15.4	0.686	16	2.5
		1770					2.5	15.4	0.747		
			2170				3.1	15.4	0.773		
				2860			4.1	15.4	0.800		
					3540		5.0	15.4	0.817		

	VELOCITÀ [RPM] ALLE TENSIONI						P [kw]	I [A]	η	ARMATURA	
	160V	220V	260V	330V	400V	440V				L [mH]	R ₁₁₅ [Ω]
L	1070						1.5	14.2	0.665	18	2.9
		1630					2.3	14.2	0.732		
			2000				2.8	14.2	0.759		
				2640			3.7	14.2	0.789		
					3290		4.6	14.2	0.808		
						3660	5.1	14.2	0.817		
M	1000						1.4	13.7	0.658	21	3.1
		1520					2.2	13.7	0.729		
			1870				2.7	13.7	0.756		
				2480			3.6	13.7	0.788		
					3090		4.4	13.7	0.807		
						3430	4.9	13.7	0.816		
N	850						1.2	12.3	0.628	23	3.9
		1320					1.9	12.3	0.706		
			1630				2.4	12.3	0.738		
				2170			3.2	12.3	0.776		
					2720		3.9	12.3	0.797		
						3030	4.4	12.3	0.806		
O	730						1.1	11.1	0.594	32	4.9
		1150					1.7	11.1	0.682		
			1430				2.1	11.1	0.717		
				1930			2.8	11.1	0.758		
					2420		3.5	11.1	0.784		
						2700	3.9	11.1	0.794		
P	630						0.9	9.9	0.564	38	5.9
		1020					1.4	9.9	0.659		
			1280				1.8	9.9	0.698		
				1730			2.4	9.9	0.743		
					2170		3.1	9.9	0.773		
						2430	3.4	9.9	0.784		
Q		850					1.2	8.8	0.625	49	7.7
			1080				1.5	8.8	0.669		
				1480			2.1	8.8	0.721		
					1880		2.6	8.8	0.753		
						2100	3.0	8.8	0.769		
R		790					1.1	8.1	0.600	53	8.9
			1010				1.4	8.1	0.648		
				1390			1.9	8.1	0.704		
					1780		2.4	8.1	0.739		
						2000	2.7	8.1	0.754		
S		690					1.0	7.7	0.587	65	9.9
			890				1.3	7.7	0.637		
				1240			1.8	7.7	0.697		
					1580		2.3	7.7	0.735		
						1780	2.6	7.7	0.750		
K										79	13
			770				1.0	6.6	0.601		
				1080			1.5	6.6	0.666		
					1390		1.9	6.6	0.709		
						1570	2.1	6.6	0.727		

MM 80 P - IP23 PVA

	VELOCITÀ [RPM] ALLE TENSIONI						P [kw]	I [A]	η	ARMATURA	
	160 V	220 V	260 V	330 V	400 V	440 V				L [mH]	R ₁₁₅ [Ω]
A	2900						5.2	40.0	0.818	2.2	0.4
B	2370						4.5	35.1	0.810	3.2	0.5
		3390					6.5	35.1	0.836		
C	2000						3.9	30.8	0.798	4.4	0.6
		2870					5.6	30.8	0.829		
			3450				6.7	30.8	0.841		
D	1700						3.2	25.8	0.775	5.8	0.9
		2460					4.5	25.8	0.812		
			2970				5.5	25.8	0.827		
E	1480						2.8	23.0	0.759	7.4	1.1
		2160					4.1	23.0	0.802		
			2610				4.9	23.0	0.818		
				3400			6.4	23.0	0.837		
F	1300						2.5	20.6	0.742	9.1	1.4
		1910					3.6	20.6	0.790		
			2320				4.3	20.6	0.809		
				3030			5.7	20.6	0.830		
G	1170						2.3	19.3	0.735	11	1.6
		1720					3.3	19.3	0.786		
			2090				4.0	19.3	0.806		
				2740			5.3	19.3	0.828		
H	1050						2.0	17.6	0.717	13	1.9
		1550					3.0	17.6	0.773		
			1890				3.6	17.6	0.795		
				2480			4.8	17.6	0.820		
I	940						1.8	16.0	0.698	15	2.3
		1410					2.7	16.0	0.759		
			1720				3.2	16.0	0.783		
				2270			4.3	16.0	0.811		
				2810		5.3	16.0	0.828			
					3120	5.9	16.0	0.835			

	VELOCITÀ [RPM] ALLE TENSIONI						P [kw]	I [A]	η	ARMATURA	
	160 V	220 V	260 V	330 V	400 V	440 V				L [mH]	R ₁₁₅ [Ω]
J	860						1.7	15.4	0.691	18	2.5
		1300					2.2	15.4	0.755		
			1590				3.1	15.4	0.780		
				2090			4.1	15.4	0.810		
					2600		5.1	15.4	0.828		
						2890	5.7	15.4	0.835		
K	780						1.5	14.0	0.669	21	3.0
		1190					2.3	14.0	0.738		
			1460				2.8	14.0	0.767		
				1930			3.7	14.0	0.798		
					2400		4.6	14.0	0.819		
						2670	5.1	14.0	0.827		
L	710						1.3	12.9	0.645	23	3.6
		1090					2.0	12.9	0.721		
			1340				2.5	12.9	0.752		
				1780			3.3	12.9	0.787		
					2230		4.2	12.9	0.809		
						2480	4.6	12.9	0.818		
M	660						1.3	12.5	0.638	26	3.8
		1010					2.0	12.5	0.717		
			1250				2.4	12.5	0.749		
				1670			3.2	12.5	0.785		
					2090		4.0	12.5	0.808		
						2330	4.5	12.5	0.818		
N		870					1.7	11.2	0.691	30	4.8
			1090				2.1	11.2	0.727		
				1460			2.8	11.2	0.769		
					1830		3.6	11.2	0.795		
						2050	4.0	11.2	0.806		
O		760					1.5	10.1	0.663	40	6.0
			950				1.8	10.1	0.704		
				1290			2.5	10.1	0.750		
					1630		3.1	10.1	0.780		
						1820	3.5	10.1	0.792		
P		670					1.3	9.1	0.639	48	7.3
			840				1.6	9.1	0.683		
				1150			2.2	9.1	0.734		
					1460		2.8	9.1	0.766		
						1640	3.1	9.1	0.780		
Q			710				1.3	8.0	0.650	62	9.4
				980			1.9	8.0	0.708		
					1260		2.4	8.0	0.745		
						1410	2.7	8.0	0.761		

I dati riportati fanno riferimento a motori: The data shown refer to motors:

- con ventilazione assistita adossata PVA - with assisted leaning ventilation PVA
- in servizio continuo CEI S1 - in continuous service CEI S1
- con alimentazione con fattore di forma = 1 - with form factor = 1
- con temperatura massima ambiente 40 °C - with maximum room temperature 40 °C
- con altitudine s.l.m. max 1000 m. - with maximum height above sea level 1000 m.

MM 90 M - IP23 PVA

	VELOCITÀ [RPM] ALLE TENSIONI						P [kw]	I [A]	η [%]	ARMATURA	
	160V	220V	260V	330V	400V	440V				L [mH]	R ₁₁₅ [Ω]
B	3330						5.3	40	0.840	1.9	0.3
C	2700						5.3	40	0.825	2.7	0.4
		3850					7.5	40	0.851		
D	2240						5.2	40	0.804	3.7	0.5
		3210					7.4	40	0.839		
			3860				8.9	40	0.853		
E	1920						4.3	34.1	0.789	4.9	0.7
		2780					6.2	34.1	0.828		
			3350				7.5	34.1	0.844		
F	1660						3.7	30.3	0.768	6.2	0.9
		2420					5.4	30.3	0.813		
			2930				6.6	30.3	0.832		
				3820			8.5	30.3	0.852		
G	1460						3.3	27.3	0.749	7.7	1.1
		2140					4.8	27.3	0.799		
			2600				5.8	27.3	0.820		
				3400			7.6	27.3	0.843		
H	1300						2.9	24.7	0.733	9.3	1.3
		1920					4.3	24.7	0.788		
			2340				5.2	24.7	0.810		
				3060			6.8	24.7	0.836		
I					3790		8.4	24.7	0.852		
	1160						2.7	23.2	0.714	11	1.5
		1730					4.0	23.2	0.775		
			2110				4.8	23.2	0.800		
			2770			6.3	23.2	0.828			
J					3440		7.9	23.2	0.846		
	1050						2.4	21	0.702	13	1.8
		1580					3.5	21	0.766		
			1930				4.3	21	0.792		
			2540			5.7	21	0.822			
							7.1	21	0.841		
					3160		7.9	21	0.849		
						3510					

	VELOCITÀ [RPM] ALLE TENSIONI						P [kw]	I [A]	η [%]	ARMATURA	
	160V	220V	260V	330V	400V	440V				L [mH]	R ₁₁₅ [Ω]
K	950						2.1	19.2	0.683	15	2.1
		1440					3.2	19.2	0.752		
			1770				3.9	19.2	0.780		
				2340			5.2	19.2	0.812		
					2910		6.4	19.2	0.833		
						3230	7.1	19.2	0.842		
L	860						1.9	17.6	0.660	17	2.5
		1320					2.9	17.6	0.736		
			1620				3.5	17.6	0.766		
				2150			4.7	17.6	0.801		
					2680		5.8	17.6	0.824		
						2990	6.5	17.6	0.834		
M		1220					2.8	17	0.731	20	2.7
			1510				3.4	17	0.762		
				2010			4.5	17	0.799		
					2510		5.6	17	0.823		
						2790	6.3	17	0.832		
N		1050					2.4	15.1	0.709	25	3.4
			1310				2.9	15.1	0.744		
				1750			3.9	15.1	0.784		
					2190		4.9	15.1	0.811		
						2450	5.5	15.1	0.822		
O		910					2.1	13.7	0.684	31	4.2
			1140				2.6	13.7	0.723		
				1540			3.5	13.7	0.768		
					1940		4.4	13.7	0.797		
						2170	4.9	13.7	0.810		
P			1060				2.3	12.6	0.704	34	4.9
				1440			3.2	12.6	0.753		
					1820		4.0	12.6	0.784		
						2040	4.4	12.6	0.798		
Q			1000				2.3	12.3	0.700	37	5.2
				1370			3.1	12.3	0.750		
					1730		3.9	12.3	0.782		
						1940	4.3	12.3	0.796		
R			890				2.0	11.1	0.673	44	6.4
				1220			2.7	11.1	0.729		
					1550		3.4	11.1	0.765		
						1750	3.8	11.1	0.781		
S				990			2.2	9.9	0.666	54	9.4
					1290		2.8	9.9	0.713		
						1460	3.2	9.9	0.734		

MM 90 P - IP23 PVA

	VELOCITÀ [RPM] ALLE TENSIONI						P [kw]	I [A]	η	ARMATURA	
	160V	220V	260V	330V	400V	440V				L [mH]	R ₁₁₅ [Ω]
A	2780						5.4	40	0.839	1.8	0.28
		3920					7.5	40	0.853		
B	2170						5.4	40	0.837	2.9	0.37
		3090					7.6	40	0.860		
			3700				9.0	40	0.867		
C	1760						5.2	40	0.821	4.2	0.48
		2520					7.5	40	0.852		
			3030				9.0	40	0.865		
				3910			11.5	40	0.877		
D	1440						4.9	39.2	0.792	5.7	0.64
		2090					7.2	39.2	0.834		
			2530				8.7	39.2	0.851		
				3290			11.2	39.2	0.869		
E	1240						4.1	33	0.776	7.5	0.83
		1810					5.9	33	0.823		
			2190				7.2	33	0.842		
				2860			9.4	33	0.862		
F	1060						3.5	29.3	0.749	9.5	1.1
		1570					5.2	29.3	0.804		
			1910				6.3	29.3	0.826		
				2500			8.2	29.3	0.851		
G	930						3.0	26.4	0.724	12	1.4
		1380					4.6	26.4	0.787		
			1690				5.6	26.4	0.812		
				2220			7.3	26.4	0.840		
H	820						2.7	23.9	0.705	14	1.6
		1240					4.1	23.9	0.773		
			1510				5.0	23.9	0.800		
				2000			6.5	23.9	0.832		
I							8.1	23.9	0.851	17	1.9
							9.0	23.9	0.859		
		1100					3.7	22.4	0.756		
			1360				4.6	22.4	0.786		
							6.1	22.4	0.821		
							7.5	22.4	0.843		
					2250		8.4	22.4	0.852		
						2500					

	VELOCITÀ [RPM] ALLE TENSIONI						P [kw]	I [A]	η	ARMATURA	
	160V	220V	260V	330V	400V	440V				L [mH]	R ₁₁₅ [Ω]
J							3.3	20.4	0.746	20	2.2
		1010					4.1	20.4	0.777		
			1240				5.5	20.4	0.814		
				1650			6.8	20.4	0.837		
					2060		7.6	20.4	0.847		
K							3.0	18.6	0.728	23	2.6
		910					3.7	18.6	0.763		
			1130				4.9	18.6	0.803		
				1510			6.2	18.6	0.828		
					1890		6.9	18.6	0.839		
L							3.3	17	0.747	26	3.2
				1040			4.4	17	0.790		
					1390		5.6	17	0.818		
						1750	6.2	17	0.829		
						1950					
M							3.2	16.5	0.741	30	3.4
			960				4.3	16.5	0.786		
				1290			5.4	16.5	0.815		
					1630		6.0	16.5	0.827		
N							2.7	14.7	0.718	38	4.2
			830				3.7	14.7	0.768		
				1120			4.7	14.7	0.801		
					1420		5.2	14.7	0.814		
O							3.3	13.2	0.747	47	5.2
				980			4.1	13.2	0.784		
					1250		4.6	13.2	0.799		
						1400					
P							2.9	12.2	0.729	52	6.1
				920			3.7	12.2	0.768		
					1170		4.2	12.2	0.785		
						1320					
Q							3.6	11.9	0.765	57	6.4
							4.1	11.9	0.768		
						1250					

I dati riportati fanno riferimento a motori: The data shown refer to motors:

- con ventilazione assistita adossata PVA - with assisted leaning ventilation PVA
- in servizio continuo CEI S1 - in continuous service CEI S1
- con alimentazione con fattore di forma = 1 - with form factor = 1
- con temperatura massima ambiente 40 °C - with maximum room temperature 40 °C
- con altitudine s.l.m. max 1000 m. - with maximum height above sea level 1000 m.

MM 102 M - IP23 PVA

	VELOCITÀ [RPM] ALLE TENSIONI						P [kw]	I [A]	η [%]	ARMATURA	
	160V	220V	260V	330V	400V	440V				L [mH]	R _{115°} [Ω]
B	2870						11.2	81.0	86.4	1.7	0.17
C	2220						8.7	65.0	83.7	2.6	0.27
		3190					12.4	64.3	87.7		
D	1810						7.1	54.4	81.6	3.7	0.38
		2660					10.2	54.1	85.7		
			3150				12.3	53.7	88.1		
E	1510						5.9	46.1	80.0	5.1	0.52
		2200					8.6	46.0	85.0		
			2660				10.3	45.8	86.5		
				3460			13.3	45.3	88.9		
F	1270						5.0	40.5	77.1	6.7	0.71
		1880					7.4	40.5	83.1		
			2280				8.9	40.4	84.7		
				2980			11.6	40.1	87.6		
G	1100						4.3	36.3	74.1	8.4	0.88
		1640					6.5	36.3	81.5		
			1990				7.9	36.2	83.9		
				2620			10.3	36.1	86.6		
H	960						3.8	32.6	72.9	10	1.1
		1440					5.7	32.6	79.6		
			1760				6.9	32.5	81.6		
				2320			9.1	32.5	85.0		
I	840						3.3	29.3	70.3	13	1.3
		1280					5.0	29.3	77.5		
			1570				6.1	29.3	80.1		
				2080			8.1	29.2	83.9		
J	740						2.9	26.7	68.0	15	1.6
		1140					4.4	26.7	75.0		
			1410				5.5	26.6	79.4		
				1880			7.3	26.6	83.1		
				2350			9.0	26.5	84.8		
					2620		10.0	26.5	85.8		

	VELOCITÀ [RPM] ALLE TENSIONI						P [kw]	I [A]	η [%]	ARMATURA	
	160V	220V	260V	330V	400V	440V				L [mH]	R _{115°} [Ω]
K	660						2.6	24.9	65.2	18	1.9
		1030					4.0	24.9	72.9		
			1270				5.0	24.9	77.1		
				1710			6.7	24.9	81.5		
					2140		8.4	24.9	84.4		
						2390	9.3	24.8	85.1		
M		850					3.3	21.3	70.3	23	2.6
			1070				4.1	21.3	73.9		
				1440			5.6	21.3	79.6		
					1820		7.0	21.3	82.2		
						2030	7.8	21.3	83.3		
O		670					2.6	18.1	65.1	34	3.5
			850				3.3	18.1	70.0		
				1160			4.6	18.1	76.8		
					1470		5.8	18.1	80.0		
						1650	6.5	18.1	81.5		
Q			670				2.6	15.1	66.4	46	5.1
				940			3.6	15.1	72.5		
					1210		4.6	15.1	76.4		
						1360	5.2	15.1	78.5		
R				780			3.0	13.1	69.2	60	6.7
					1020		3.9	13.1	74.2		
						1150	4.4	13.1	76.1		
S				660			2.6	11.9	66.2	76	8.3
					870		3.4	11.9	71.4		
						990	3.8	11.9	72.6		
T					750		2.9	10.7	68.0	94	10.4
						850	3.3	10.7	70.3		

I dati riportati fanno riferimento a motori:

- con ventilazione assistita addossata PVA
- in servizio continuo CEI S1
- con alimentazione con fattore di forma = 1
- con temperatura massima ambiente 40 °C
- con altitudine s.l.m. max 1000 m.

The data shown refer to motors:

- with assisted leaning ventilation PVA
- in continuous service CEI S1
- with form factor = 1
- with maximum room temperature 40 °C
- with maximum height above sea level 1000 m.

MM 102 P - IP23 PVA

	VELOCITÀ [RPM] ALLE TENSIONI						P [kw]	I [A]	η [%]	ARMATURA	
	160V	220V	260V	330V	400V	440V				L [mH]	R ₁₁₅ [Ω]
B	1970						10.8	79.2	85.2	2.2	0.21
		2810					15.4	79.2	88.4		
			3370				18.4	79.2	89.4		
C	1510						8.2	63.1	81.2	3.5	0.35
		2180					11.9	63.1	85.7		
			2630				14.3	63.1	87.2		
				3420			18.6	63.1	89.3		
D	1220						6.7	52.7	79.4	5.0	0.49
		1780					9.7	52.7	83.7		
			2160				11.8	52.7	86.1		
				2810			15.4	52.7	88.5		
E	1010						5.5	44.7	77.0	6.8	0.66
		1490					8.1	44.7	82.4		
			1820				9.8	44.7	84.4		
				2380			12.8	44.7	86.8		
F	840						4.6	39.3	73.2	8.8	0.89
		1270					6.9	39.3	79.9		
			1550				8.4	39.3	82.3		
				2040			11.1	39.3	85.7		
G	720						4.0	35.1	71.1	11	1.1
		1100					6.0	35.1	77.6		
			1350				7.4	35.1	81.0		
				1780			9.8	35.1	84.5		
H	620						3.4	31.5	67.4	13.8	1.4
		960					5.2	31.5	74.9		
			1180				6.5	31.5	79.2		
				1580			8.6	31.5	82.6		
I							10.8	31.5	85.6	17	1.7
		850					4.6	28.4	73.6		
			1050				5.7	28.4	77.2		
				1410			7.6	28.4	81.1		
J							9.5	28.4	83.6	20	2.1
							10.6	28.4	84.8		
		750					4.0	25.8	70.4		
			940				5.0	25.8	74.5		
							6.8	25.8	79.8		
				1270			8.5	25.8	82.3		
					1600		8.5	25.8	82.3		
						1780	9.5	25.8	83.6		

	VELOCITÀ [RPM] ALLE TENSIONI						P [kw]	I [A]	η [%]	ARMATURA	
	160V	220V	260V	330V	400V	440V				L [mH]	R ₁₁₅ [Ω]
K										23	2.4
		670					3.6	24.2	67.7		
			840				4.6	24.2	73.2		
				1140			6.2	24.2	77.8		
M										31	3.2
							7.9	24.2	81.8		
							8.8	24.2	82.8		
N										31	3.2
							3.7	20.7	68.9		
			700				5.2	20.7	76.3		
				960			6.6	20.7	79.9		
O										45	4.4
							7.4	20.7	81.4		
P										45	4.4
							4.2	17.6	72.4		
					760		5.4	17.6	76.8		
						980	6.1	17.6	78.9		
Q										61	6.4
							3.2	14.6	66.5		
					610		4.2	14.6	72.0		
R										79	8.4
							4.8	14.6	74.8		
							900	4.8	14.6		
							3.5	12.7	68.8		
							760	4.0	12.7		

I dati riportati fanno riferimento a motori:

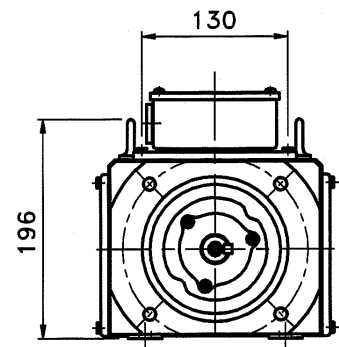
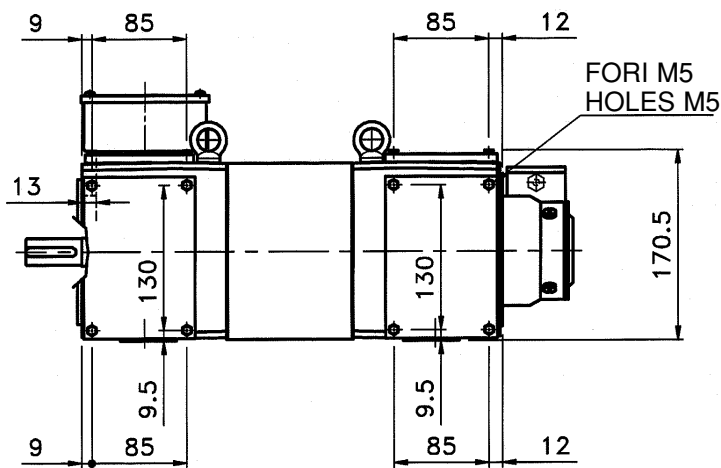
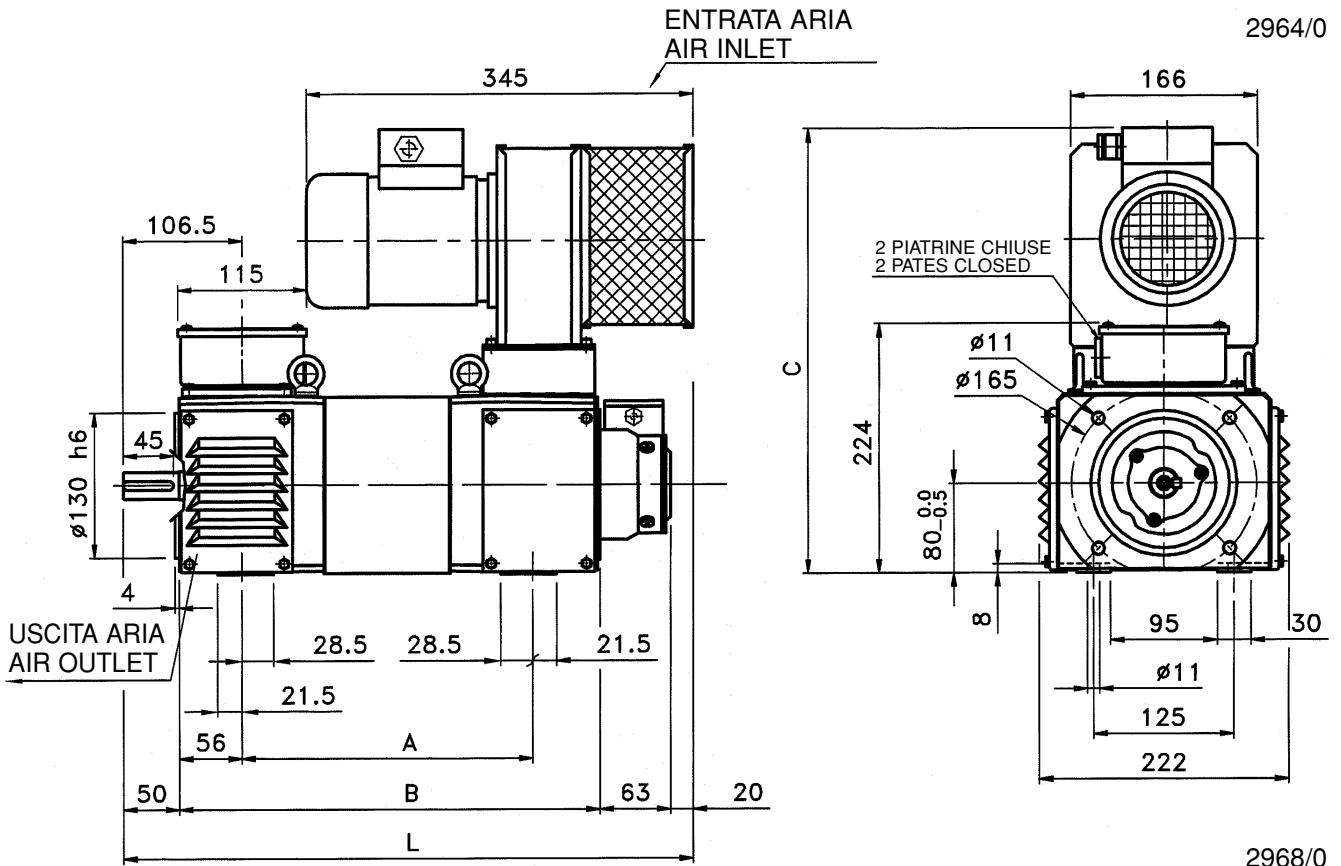
- con ventilazione assistita addossata PVA
- in servizio continuo CEI S1
- con alimentazione con fattore di forma = 1
- con temperatura massima ambiente 40 °C
- con altitudine s.l.m. max 1000 m.

The data shown refer to motors:

- with assisted leaning ventilation PVA
- in continuous service CEI S1
- with form factor = 1
- with maximum room temperature 40 °C
- with maximum height above sea level 1000 m.

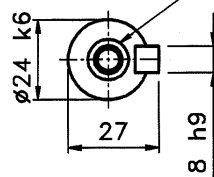
MM 80

LE QUOTE DELLA FLANGIA SI RIFERISCONO ALLA VERSIONE B35 FORNIBILE A RICHIESTA
 FLANGE DIMENSIONS ARE REFERRED TO B35 VERSION FORESEEN UPON REQUEST



ESTREMITA' ASSE
SHAFT END

CENTRO M8 UNI 9321
CENTRE M8 UNI 9321



		QUOTA / QUOTAS			
		A	B	L	C
LUNGHEZZA LENGHT	S	235	351	484	399
	M	260	376	509	399
	P	310	426	559	358



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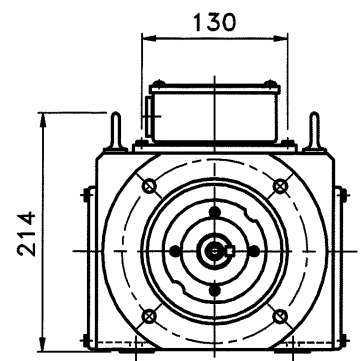
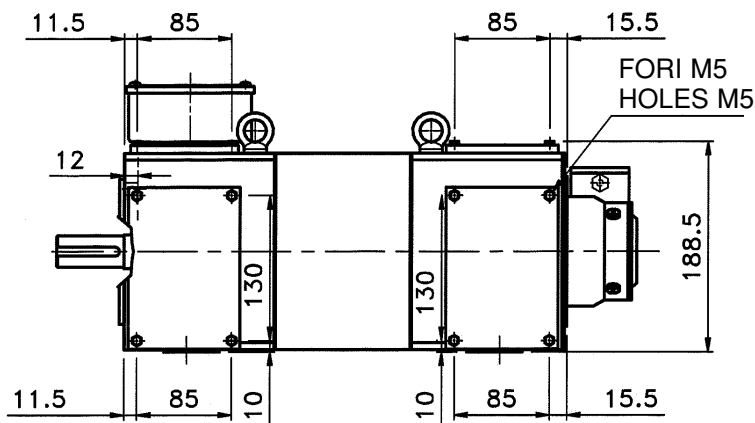
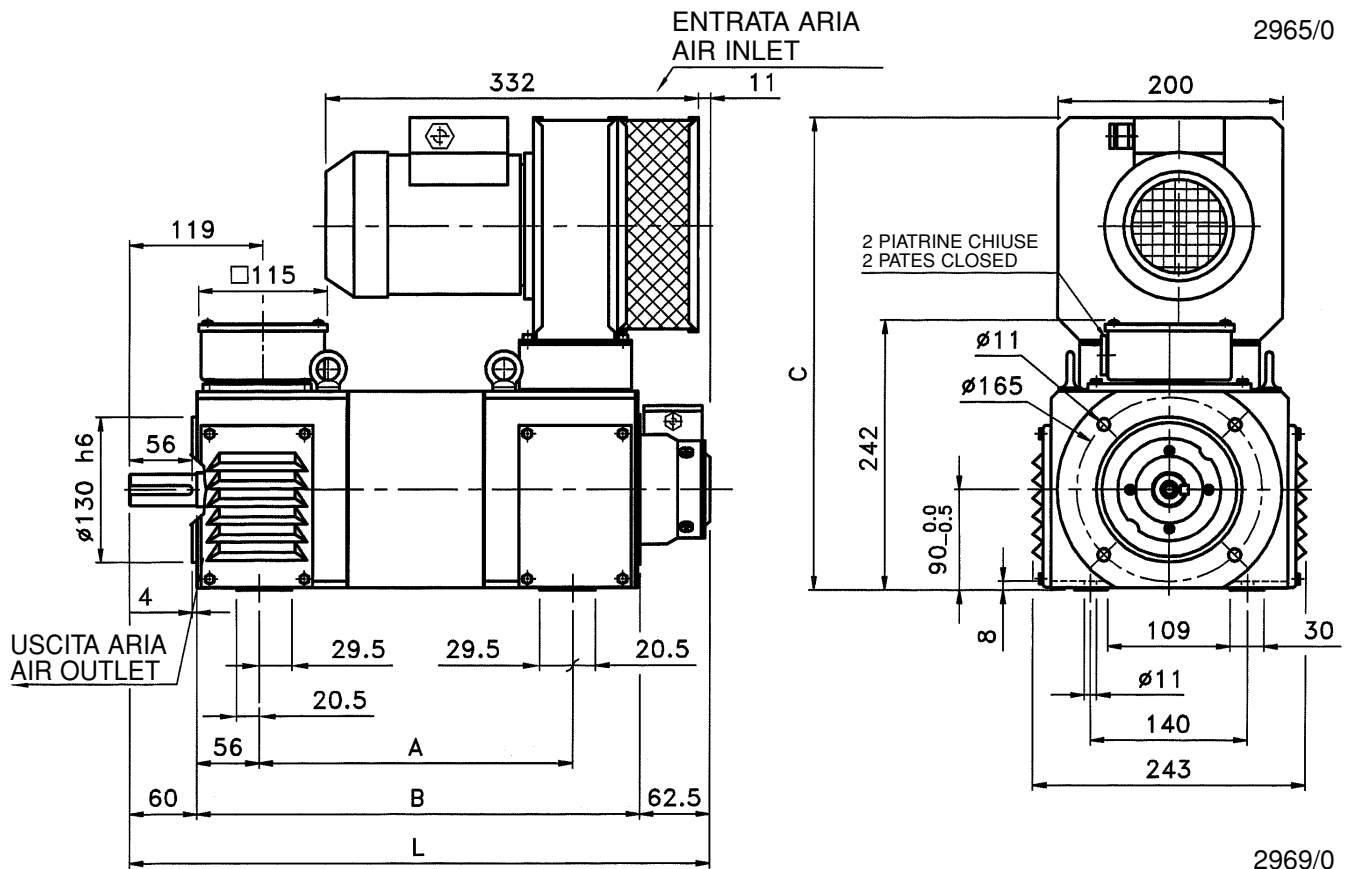
36054 Montebello Vicentino (VI) Italy
Tel. (0444) 649399
Fax (0444) 440495

E-mail: info@magneticspa.it
Web site: www.magneticspa.it

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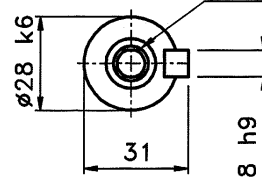
MM 90

LE QUOTE DELLA FLANGIA SI RIFERISCONO ALLA VERSIONE B35 FORNIBILE A RICHIESTA
 FLANGE DIMENSIONS ARE REFERRED TO B35 VERSION FORESEEN UPON REQUEST



ESTREMITA' ASSE
 SHAFT END

CENTRO M8 UNI 9321
 CENTRE M8 UNI 9321



		QUOTA / QUOTAS			
		A	B	L	C
LUNGHEZZA LENGHT	M	280	396	518.5	424
	P	340	456	568.5	383

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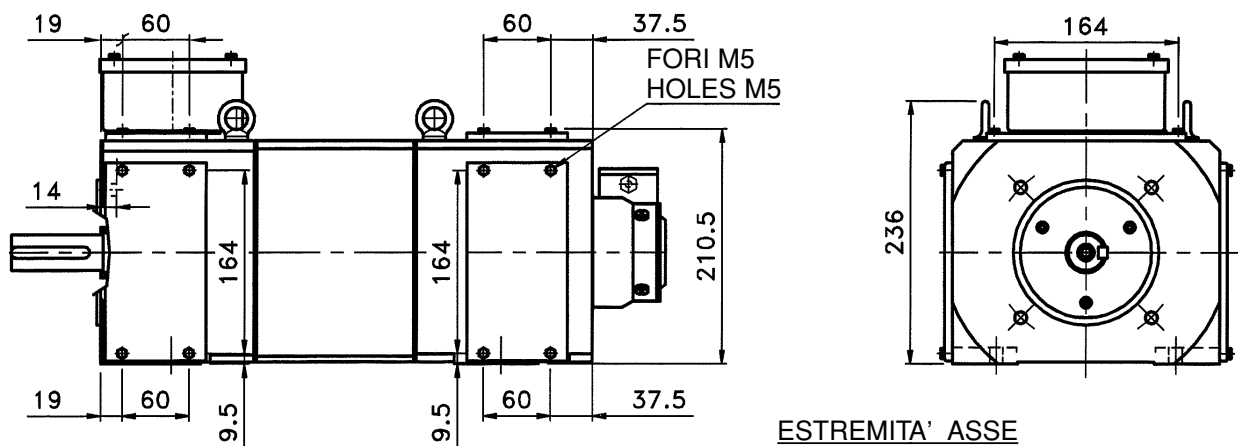
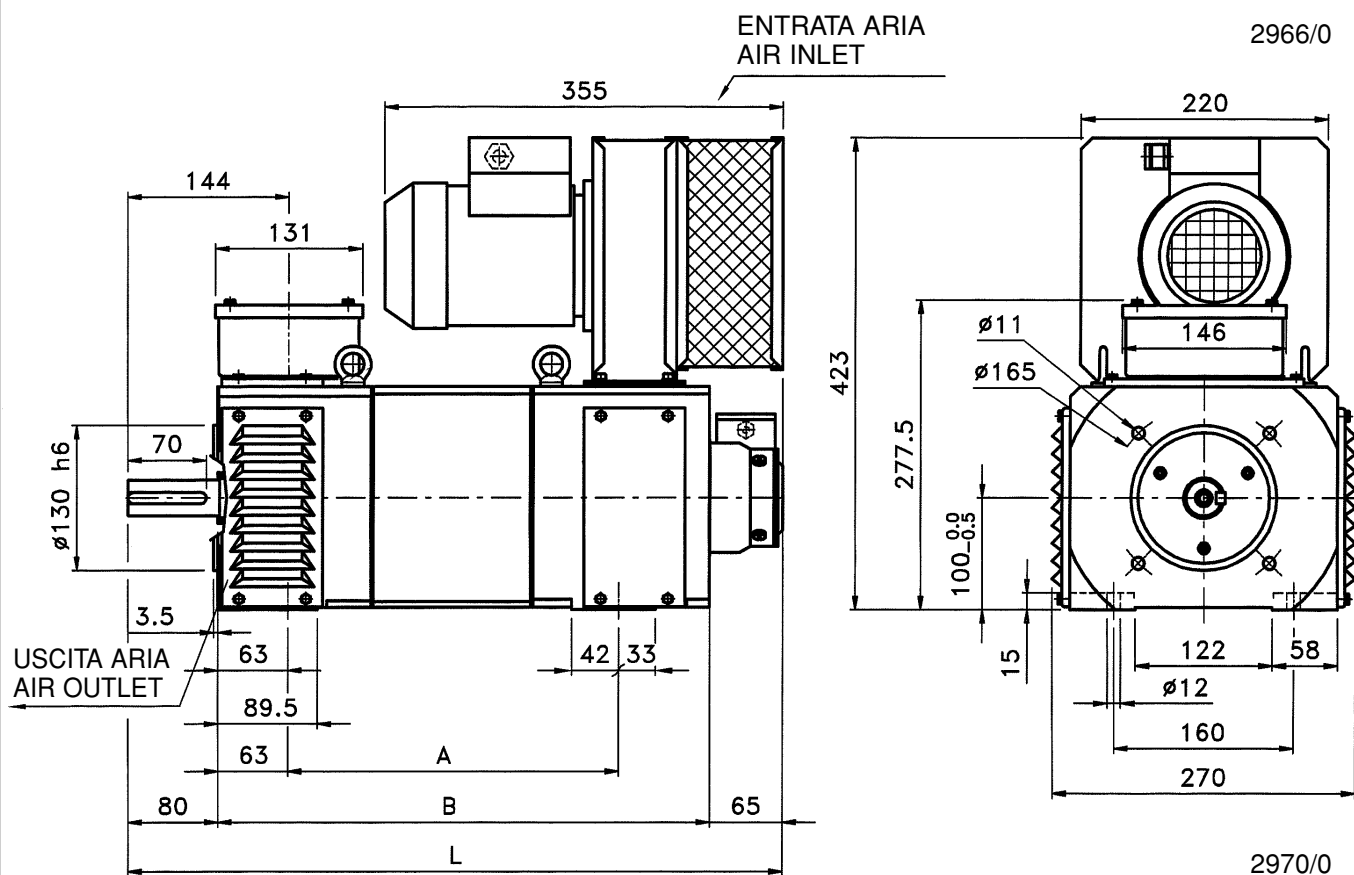
MAGNETIC SpA
 Sede Amm.va e Stabilimento:
 Via del Lavoro, 7

36054 Montebello Vicentino (VI) Italy
 Tel. (0444) 649399
 Fax (0444) 440495

E-mail: info@magneticspa.it
 Web site: www.magneticspa.it

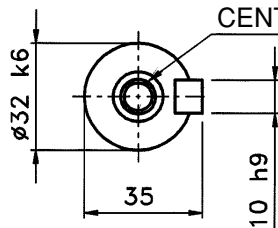
MM 102

LE QUOTE DELLA FLANGIA SI RIFERISCONO ALLA VERSIONE B35 FORNIBILE A RICHIESTA
 FLANGE DIMENSIONS ARE REFERRED TO B35 VERSION FORESEEN UPON REQUEST



ESTREMITA' ASSE
 SHAFT END

CENTRO M8 UNI 9321
 CENTRE M8 UNI 9321



		QUOTA / QUOTAS		
		A	B	L
LUNGHEZZA LENGHT	M	295	439.5	584.5
	P	355	499.5	644.5

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MAGNETIC SpA
 Sede Amm.va e Stabilimento:
 Via del Lavoro, 7

36054 Montebello Vicentino (VI) Italy
 Tel. (0444) 649399
 Fax (0444) 440495

E-mail: info@magneticspa.it
 Web site: www.magneticspa.it