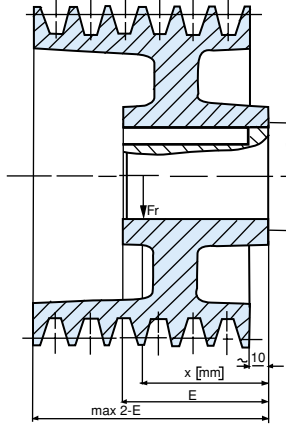


Pacco Lenght	Max potenza eccitazione Max excitation power	Momento di inerzia Moment of inertia	Dimensioni spazzole Brush dimensions	Cuscinetto lato accoppiamento Drive end bearing		Cuscinetto lato collettore No-drive end bearing	Peso Weight
				Sfere Balls	Rulli Rollers		
	W	Kg m ²	mm				Kg
S	1250	0.52	12.5x32x40 o 16x32x50	6313 - 2Z - C3	NU 313 ECP	6311 - 2Z - C3	380
M	1420	0.61					420
L	1590	0.7					460
P	1750	0.79					495

Dati ventilazione Ventilation		Elettroventilatore Electrofan		Rumorosità Noise
Portata Air flow	Prevalenza Pressure	Potenza Power	I a 400 V I at 400 V	
m ³ /h	mm H ₂ O	Kw	A	dB _A
1400	130	2.2	4.8	80

Carico radiale (daN) ammissibile per una durata teorica del cuscinetto lato accoppiamento di 20.000 ore Admitted radial load (daN) for a theoretic 20.000 hours of the drive end bearing														
	rpm		200	400	600	1000	1200	1500	2000	2500	3000	3500	4000	
	6313 - 2Z - C3	X	Fr (daN)											
		0	1200	916	778	620	577	518	464	400	372	343	317	
		35	1140	874	743	592	551	495	443	381	355	327	303	
		70	844	844	717	572	532	478	427	368	343	316	293	
		105	693	693	693	552	514	462	413	356	331	305	283	
		140	534	534	534	534	497	447	400	344	321	295	273	
	NU 313 ECP	X	Fr (daN)											
		0	1850	1850	1850	1850	1760	1630	1500	1350	1280	1220	1150	
		35	1440	1440	1440	1440	1440	1440	1440	1290	1230	1170	1100	
		70	960	960	960	960	960	960	960	960	960	960	960	
		105	754	754	754	754	754	754	754	754	754	754	754	
		140	621	621	621	621	621	621	621	621	621	621	621	

MM 180 S

	VELOCITÀ [rpm] ALLE TENSIONI						P [kw]	I [A]	η	ARMATURA	
	220 V	260 V	330 V	400 V	440 V	520 V				L [mH]	R ₁₁₅ [Ω]
A	1910						79.6	408	0.887	1.25	0.046
		2300					93.0	397	0.901		
			2990				107.7	356	0.917		
B	1500						63.8	333	0.871	1.96	0.068
		1810					76.0	329	0.888		
			2350				95.1	318	0.907		
				2910			107.2	292	0.919		
					3220		109.1	268	0.924		
C	1180						55.9	300	0.846	0.63	0.096
		1430					67.0	297	0.867		
			1870				86.0	292	0.892		
				2310			103.4	285	0.907		
					2570		111.9	278	0.914		
D	1060						49.9	271	0.826	0.66	0.114
		1290					60.0	269	0.860		
			1690				77.3	264	0.886		
				2080			93.8	260	0.903		
					2310		102.4	256	0.909		
						*2770	115.9	242	0.920		
E	840						40.1	226	0.807	1.09	0.166
		1030					48.8	225	0.835		
			1360				63.6	222	0.867		
				1690			77.9	219	0.887		
					1880		85.9	218	0.896		
						2260	100.9	213	0.909		
F	750						35.3	204	0.787	1.17	0.206
		920					43.3	204	0.817		
			1220				56.9	202	0.853		
				1510			69.9	199	0.876		
					1690		77.3	198	0.886		
						*2030	91.6	196	0.900		
G	630						29.7	179	0.754	1.70	0.277
		780					36.7	179	0.789		
			1040				48.9	178	0.830		
				1310			60.6	176	0.858		
					1460		67.1	175	0.870		
						1760	80.0	173	0.887		
H	560						26.4	161	0.743	1.83	0.321
		700					32.7	161	0.780		
			940				43.7	161	0.823		
				1180			54.5	160	0.852		
					1310		60.5	159	0.864		
						*1590	72.2	157	0.883		
I	500						23.4	149	0.716	2.45	0.390
		620					29.3	149	0.757		
			840				39.5	149	0.805		
				1060			49.5	148	0.836		
					1190		55.1	147	0.850		
						1440	66.0	146	0.871		

	VELOCITÀ [rpm] ALLE TENSIONI						P [kw]	I [A]	η	ARMATURA	
	220 V	260 V	330 V	400 V	440 V	520 V				L [mH]	R ₁₁₅ [Ω]
J	440						21.0	136	0.700	2.64	0.452
		560					26.3	136	0.744		
			750				35.7	136	0.795		
				950			45.0	136	0.828		
					1070		50.2	135	0.842		
						*1290	60.3	134	0.864		
K	330						15.7	111	0.640	4.35	0.674
		430					20.0	111	0.693		
			590				27.7	111	0.755		
				760			35.4	111	0.795		
					850		39.7	111	0.812		
						1040	48.4	111	0.838		
L										5.51	0.854
		360					16.9	99	0.656		
			510				23.7	99	0.726		
				650			30.6	99	0.771		
					730		34.5	99	0.790		
						900	42.2	99	0.820		
M										6.80	1.069
			440				20.3	88	0.696		
				570			26.4	88	0.746		
					640		29.9	88	0.768		
						790	36.8	88	0.801		

MM 180 M

	VELOCITÀ [rpm] ALLE TENSIONI						P [kw]	I [A]	η	ARMATURA	
	220 V	260 V	330 V	400 V	440 V	520 V				L [mH]	R ₁₁₅ [Ω]
A	1530						78.2	404	0.881	1.56	0.052
		1840					92.6	397	0.896		
			2390				114.8	381	0.914		
				2940			129.2	349	0.926		
					3270		130.8	320	0.930		
B	1200						62.6	330	0.862	2.43	0.076
		1440					74.7	326	0.881		
			1880				94.9	318	0.903		
				2320			113.0	308	0.916		
					2570		121.3	299	0.922		
						3080	131.1	271	0.930		
C	940						53.9	294	0.835	0.77	0.107
		1140					65.3	292	0.858		
			1500				84.1	288	0.886		
				1850			102.3	283	0.903		
					2050		112.5	281	0.910		
D	840						48.0	264	0.825	0.81	0.128
		1020					58.2	263	0.850		
			1350				75.6	261	0.879		
				1670			92.2	257	0.897		
					1850		101.4	255	0.905		
						*2220	118.8	249	0.917		
E	670						38.3	219	0.794	1.35	0.186
		8210					46.9	219	0.823		
			1080				61.8	219	0.857		
				1350			76.2	216	0.880		
					1500		84.0	215	0.890		
						1810	99.6	212	0.904		
F	590						33.6	198	0.771	1.44	0.231
		730					41.4	198	0.804		
			970				55.0	198	0.843		
				1210			68.2	197	0.868		
					1340		75.6	196	0.878		
						*1620	89.9	193	0.895		
G	500						28.1	174	0.735	2.11	0.310
		620					35.0	174	0.774		
			830				46.9	174	0.818		
				1040			58.7	173	0.848		
					1160		65.4	173	0.860		
						1400	78.3	171	0.880		
H	440						24.9	157	0.724	2.25	0.360
		550					31.1	157	0.764		
			740				41.9	157	0.811		
				940			52.6	156	0.841		
					1050		58.7	156	0.854		
						*1270	70.5	155	0.875		
X	390						22.0	144	0.694	3.04	0.437
		490					27.7	144	0.738		
			670				37.7	144	0.791		
				840			47.6	144	0.825		
					940		53.3	144	0.839		
						1150	64.4	144	0.862		

	VELOCITÀ [rpm] ALLE TENSIONI						P [kw]	I [A]	η	ARMATURA	
	220 V	260 V	330 V	400 V	440 V	520 V				L [mH]	R ₁₁₅ [Ω]
I	340						19.7	132	0.676	3.24	0.507
		440					24.9	132	0.724		
			600				34.0	132	0.780		
				760			43.1	132	0.815		
					850		48.3	132	0.831		
						*1030	58.5	132	0.855		
J		400					22.5	123	0.7	4.14	0.593
			550				31.0	123	0.761		
				700			39.5	123	0.8		
					790		44.3	123	0.817		
						960	53.9	123	0.843		
K		330					18.8	108	0.668	5.40	0.755
			460				26.3	108	0.736		
				600			33.7	108	0.779		
					670		38.0	108	0.798		
						820	46.5	108	0.827		
L			400				22.4	96	0.704	6.84	0.957
				510			29.0	96	0.753		
					580		32.8	96	0.774		
						710	40.4	96	0.807		
M			340				19.1	86	0.671	8.44	1.199
				450			25.0	86	0.726		
					510		28.4	86	0.750		
						630	35.2	86	0.786		

NOTE:

a) * : Con V_{ca} max ingresso convertitore di 460 Vrms

b) Gli avvolgimenti compensatori sono previsti di serie

c) 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.

MM 180 L

	VELOCITÀ [rpm] ALLE TENSIONI						P [kw]	I [A]	η	ARMATURA	
	220 V	260 V	330 V	400 V	440 V	520 V				L [mH]	R _{115°} [Ω]
A	1270						77.0	401	0.873	1.86	0.057
		1530					91.3	394	0.891		
			1990				115.5	384	0.910		
				2450			135.4	367	0.923		
					2710		144.1	353	0.928		
						3250	152.2	313	0.935		
B	990						61.0	325	0.853	2.90	0.085
		1200					73.3	323	0.874		
			1570				93.7	316	0.898		
				1930			113.1	310	0.913		
					2140		123.3	305	0.919		
						2560	140.1	290	0.929		
C	780						52.1	287	0.824	0.91	0.119
		940					63.3	287	0.849		
			1240				82.4	284	0.878		
				1540			100.5	280	0.898		
					1710		110.7	278	0.905		
D	690						46.2	258	0.814	0.97	0.142
		850					56.3	258	0.840		
			1120				73.8	257	0.871		
				1390			90.5	254	0.891		
					1540		99.6	251	0.900		
						*1850	117.7	248	0.913		
E	670						41.2	231	0.810	5.68	0.161
		820					50.3	231	0.837		
			1080				66.0	230	0.868		
				1340			80.9	228	0.889		
					1490		89.0	225	0.898		
						1790	105.2	222	0.911		
F	550						36.7	214	0.780	1.61	0.206
		680					45.2	214	0.811		
			900				59.9	214	0.848		
				1120			74.4	213	0.872		
					1250		82.4	212	0.883		
						1500	97.7	209	0.899		
G	480						32.1	193	0.755	1.72	0.256
		600					39.8	193	0.791		
			800				53.1	193	0.832		
				1000			66.3	193	0.859		
					1120		73.8	193	0.871		
						*1350	88.1	191	0.889		
H	400						26.7	170	0.716	2.52	0.343
		510					33.4	170	0.758		
			680				45.1	170	0.806		
				860			56.8	170	0.838		
					960		63.4	169	0.851		
						1160	76.4	169	0.872		
I	360						23.7	153	0.704	2.69	0.399
		450					29.7	153	0.747		
			610				40.3	153	0.798		
				770			50.8	153	0.831		
					870		56.8	153	0.845		
						*1050	68.7	152	0.847		

	VELOCITÀ [rpm] ALLE TENSIONI						P [kw]	I [A]	η	ARMATURA	
	220 V	260 V	330 V	400 V	440 V	520 V				L [mH]	R _{115°} [Ω]
J	320						20.8	141	0.671	3.62	0.484
		400					26.4	141	0.720		
			550				36.1	141	0.776		
				700			45.9	141	0.813		
					780		51.4	141	0.829		
						950	62.4	141	0.853		
K	280						18.5	129	0.652	3.87	0.562
		350					23.6	129	0.704		
			490				32.5	129	0.764		
				620			41.4	129	0.803		
					700		46.5	129	0.819		
						*850	56.6	129	0.845		
L										6.44	0.836
			380				25.0	106	0.716		
				490			32.2	106	0.764		
					550		36.4	106	0.784		
						680	44.7	106	0.815		
M										8.15	1.061
			320				21.2	94	0.682		
				420			27.6	94	0.735		
					480		31.4	94	0.758		
						590	38.8	94	0.793		
N										10.06	1.328
				360			23.7	84	0.706		
					410		27.0	84	0.732		
						510	33.6	84	0.771		

a) *: With max Vac at convertor input equal to 460 Vrms

b) Stabilizing windings are standard

c) 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 180 P

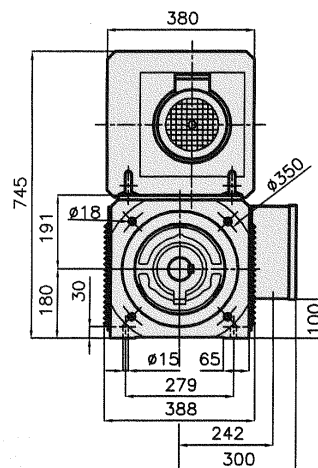
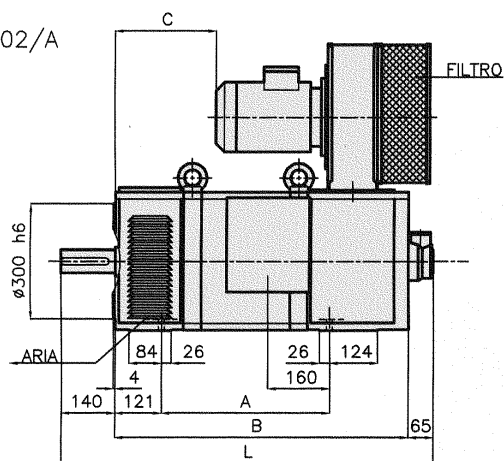
	VELOCITÀ [rpm] ALLE TENSIONI						P [kw]	I [A]	η	ARMATURA	
	220V	260V	330V	400V	440V	520V				L [mH]	R ₁₁₅ [Ω]
A	1100						75.3	395	0.867	2.12	0.062
		1320					90.1	391	0.885		
			1720				114.4	382	0.906		
				2120			136.5	371	0.920		
					2350		147.4	362	0.926		
						2810	164.8	339	0.934		
B	850						59.4	319	0.845	3.32	0.092
		1040					71.7	318	0.867		
			1360				92.5	314	0.892		
				1670			112.0	308	0.909		
					1860		122.8	305	0.916		
						2220	142.1	295	0.926		
C	670						50.4	281	0.815	1.05	0.129
		820					61.5	281	0.841		
			1070				80.4	279	0.872		
				1330			98.8	277	0.892		
					1480		109.0	275	0.901		
D	600						44.6	252	0.803	1.11	0.154
		730					54.6	252	0.831		
			960				71.8	252	0.864		
				1200			88.6	250	0.886		
					1330		98.0	249	0.895		
						*1600	116.1	245	0.909		
E	580						39.9	227	0.799	6.51	0.175
		710					48.8	227	0.828		
			930				64.3	226	0.862		
				1160			79.3	224	0.884		
					1290		87.8	223	0.893		
						1550	103.9	220	0.907		
F	470						35.4	210	0.767	1.86	0.224
		580					43.6	210	0.801		
			780				58.1	210	0.840		
				970			72.4	209	0.866		
					1080		80.4	208	0.877		
						1300	96.1	207	0.894		
G	410						30.9	189	0.741	1.97	0.279
		510					38.4	189	0.779		
			690				51.4	189	0.823		
				860			64.5	189	0.852		
					960		71.8	189	0.864		
						*1170	86.2	188	0.883		
H	340						25.6	166	0.700	2.90	0.373
		430					32.1	166	0.744		
			590				43.6	166	0.796		
				740			55.1	166	0.829		
					830		61.6	166	0.843		
						1010	74.4	165	0.866		
I	310						22.6	150	0.686	3.08	0.435
		390					28.5	150	0.732		
			530				38.8	150	0.786		
				670			49.2	150	0.821		
					750		55.1	150	0.836		
						*910	66.8	149	0.860		

	VELOCITÀ [rpm] ALLE TENSIONI						P [kw]	I [A]	η	ARMATURA	
	220V	260V	330V	400V	440V	520V				L [mH]	R ₁₁₅ [Ω]
J										4.44	0.612
			420				31.2	126	0.750		
				540			40.0	126	0.791		
					600		45.0	126	0.809		
						*740	54.9	126	0.836		
K										7.42	0.910
			320				23.9	103	0.699		
				420			31.0	103	0.750		
					470		35.1	103	0.771		
						580	43.2	103	0.805		
L										9.40	1.154
				360			26.5	92	0.720		
					410		30.1	92	0.744		
						500	37.4	92	0.781		
M										11.60	1.445
				310			22.6	82	0.689		
					350		25.9	82	0.716		
						440	32.4	82	0.758		

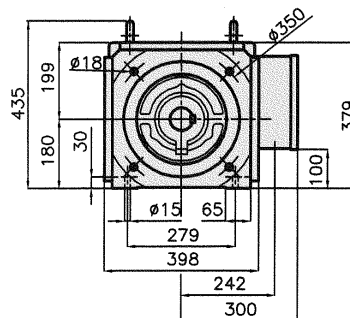
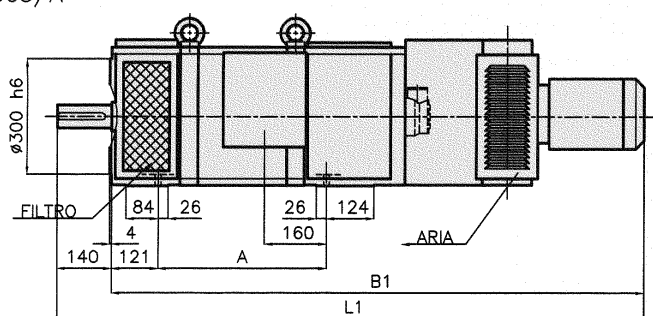
Dimensioni d'ingombro

Overall dimensions

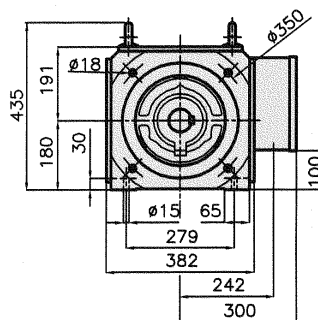
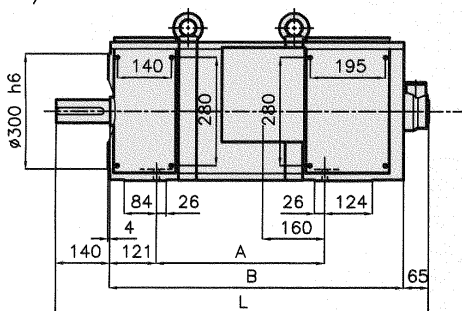
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2303/A

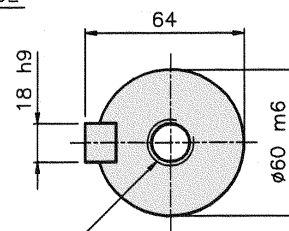


2304/A



Tipo Type	Ingombri massimi / Max overall					
	A	B	B1	C	L	L1
MM 180	S	436	761	1380	261	966
	M	491	816	1435	316	1021
	L	546	871	1490	371	1076
	P	596	921	1540	421	1126

ESTREMITA' ASSE



CENTRO M20 UNI 9321

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