

CEAR



MOTORI ELETTRICI A CORRENTE CONTINUA PER APPLICAZIONI INDUSTRIALI

DIRECT CURRENT ELECTRIC MOTORS FOR INDUSTRIAL APPLICATIONS

SERIE MGL NON COMPENSATI

GRANDEZZE 80 - 100 (2 POLI)
GRANDEZZA 112 - 160 (4 POLI)

POTENZE DA 1,6 A 73 KW (a 1500 rpm)
COPPIE DA 10 A 460 Nm

MGL SERIES UNCOMPENSATED

SIZE 80 - 100 (2 POLES)
SIZE 112 - 160 (4 POLES)

POWER FROM 1.6 TO 73 KW (at 1500 rpm)
TORQUE FROM 10 TO 460 Nm





MOTORI ELETTRICI A CORRENTE CONTINUA DIRECT CURRENT ELECTRIC MOTORS

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MOTORI ELETTRICI A CORRENTE CONTINUA DIRECT CURRENT ELECTRIC MOTORS

PRODUZIONE CEAR

Tutte le macchine costruite dalla ditta CEAR sono conformi alle norme CEI EN 60034-1 classificazione 2-3 fascicolo n°11111 (data di pubblicazione 2011), per le macchine elettriche rotanti ed alle raccomandazioni internazionali IEC.

Il collaudo viene eseguito su ogni macchina, secondo quanto stabilito dalle suddette norme, onde accertarne il corretto funzionamento.

Sono inoltre considerate esecuzioni rispondenti a particolari esigenze delle ditte committenti nel rispetto di eventuali normative estere e della buona regola d'arte.

CEAR PRODUCTION

All motors made by company CEAR are in accordance with the norms CEI EN 60034-1 classification 2-3 fasc. n°11111 (publication date 2011), for the electrical rotating machines and with the IEC international recommendations.

Every motor is tested as established from the above mentioned norms in order to verify the correct operation.

We are at complete disposal for eventual execution of motors answering to particular needs of our customers ever in the respect of eventual foreign norms and executed to art rule.



ISOLAMENTO

I motori della serie MGL e MGLC sono costruiti utilizzando materiali con isolamento in classe H.
La sovratemperatura ammessa per la classe H dalle norme CEI EN 60034-1 classificazione 2-3 fascicolo n°11111 (data pubblicazione 2011), è pari a $\Delta T = 125^\circ\text{C}$.

I motori indicati sul catalogo sono previsti per sovratureperature, relative alla classe F, pari a $\Delta T = 105^\circ\text{C}$.

I motori vengono perciò utilizzati per una sovratemperatura inferiore mediamente del 20% offrendo così un più elevato grado di affidabilità.

INSULATION

Motors of series MGL and MGLC are constructed using material with insulation class H.
The overtemperature admitted for the class from the norms CEI EN 60034-1 classification 2-3 fasc. n°11111 (publication date 2001), is like $\Delta T = 125^\circ\text{C}$.

Motors indicated on the catalogue are provided for overtemperature of class F, like to $\Delta T = 105^\circ\text{C}$.

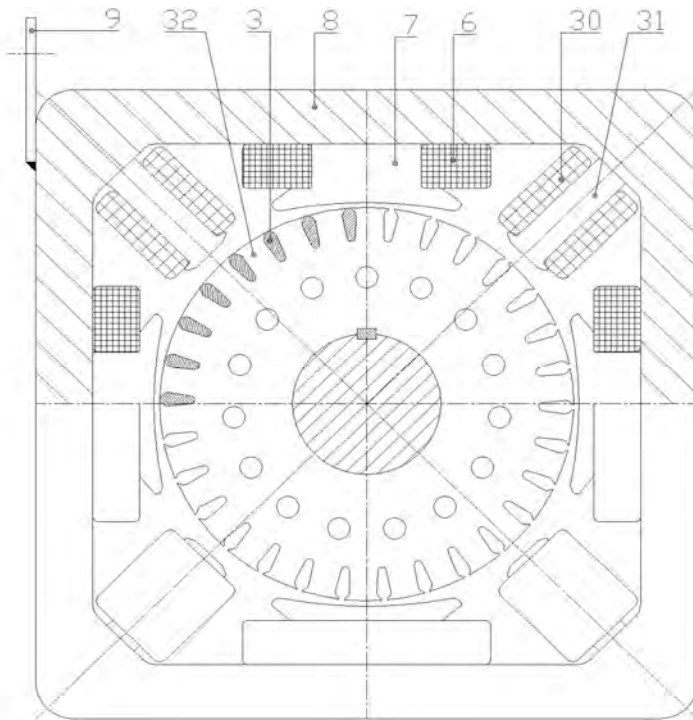
Motors are therefore used for a lower overtemperature of 20% on average, offering an higher reliability level.



Motori Serie MGL
Motoren Serie MGL
Motor Series MGL

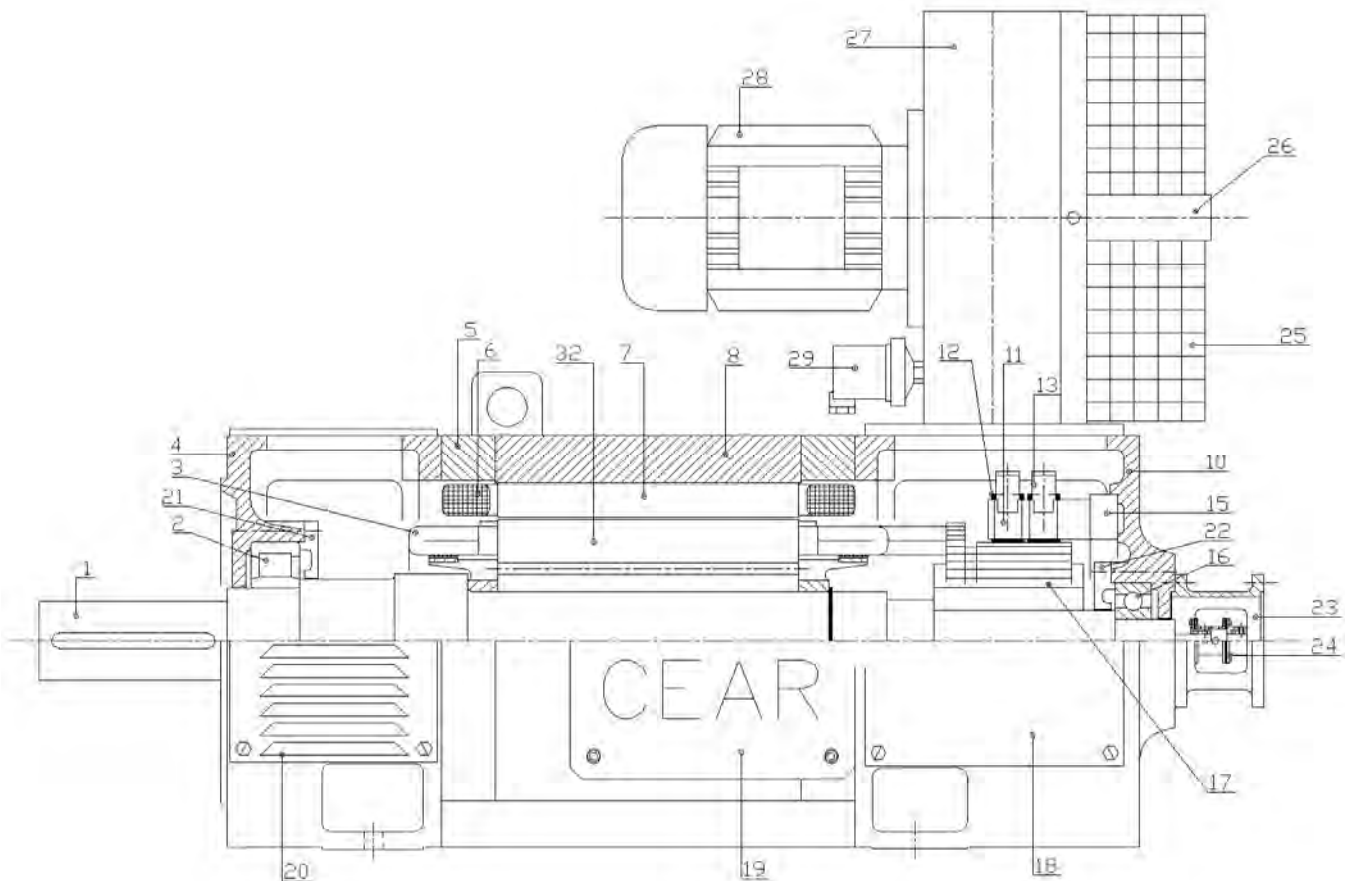
Tabella / Tisch / Tables
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N° 1



RAPPRESENTAZIONE GRAFICA
MOTORE SERIE MGL

DRAWINGS
MOTOR SERIAL MGL





Motori Serie MGL
Motoren Serie MGL
Motor Series MGL

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LISTA COMPONENTI

MOTORE SERIE MGL

PARTS LISTS

MOTOR SERIAL MGL

1	Sporgenza d'albero	Shaft end
2	Cuscinetto lato accoppiamento	Bearing coupling side
3	Avvolgimento del rotore	Engine winding up
4	Scudo lato accoppiamento	Coupling shield side
5	Viti di fissaggio scudi - statore	Fixing screws shield-box
6	Bobina poli principali	Coil mains poles
7	Nucleo poli principali	Nucleous mains poles
8	Statore Lamellare	Blades package stator
9	Golfari di sollevamento	Lifting ring
10	Scudo lato opposto	Opposite shield side
11	Cassetto portaspazzole e spazzole	Drawer brushes-holder
12	Spazzole	Brushes
13	Molle spingi spazzole	Spring
15	Anello portaspazzole	Brushes-holder ring
16	Cuscinetto lato opposto	Bearing opposite side
17	Collettore	Collector
18	Portello ispezione lato opposto	Opposite side inspection door
19	Scatola Morsettiera	Terminal board
20	Portello lato accoppiamento	Coupling side door
21	Coperchietto interno lato accopp.	Coupling side interior small-cover
22	Coperchietto interno lato opposto	Opposite side interior small-cover
23	Lanterna attacco D.T.	Lantern for Tachogenerator
24	Giunto elastico di adattamento D.T.	Elastic Joint for tachogenerator
25	Filtro Ventilatore	Ventilator filter
26	Staffe di sostegno filtro	Support filter stirrups
27	Voluta ventiatore	Ventilator carter
28	Motore ventilatore	Ventilator engine
29	Relè anemostatico	Air flow control relay
30	Bobina poli ausiliari	Auxiliarys poles bobbin
31	Nucleo poli ausiliari	Nucleus auxiliarys poles
32	Pacco rotore	Rotor package

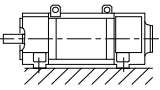
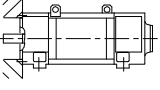
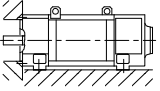
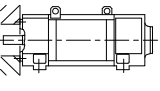
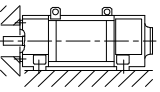





Forme costruttive
Construction Forms

18.05.2007
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Macchine ad asse orizzontale
Machines with horizontal shaft

Tables N° 04

Figura Sketch	CEI EN 60034-7		UNEL 05513	
	Cod. II	Cod. I		
	IM 1001	IM B3	B3	Fissata mediante piedi; piedi disposti verso il basso Mounted by feet, feet down
	IM 3001	IM B5	B5	Fissata sul lato della flangia con fori passanti, rivolto verso il lato comando Mounted by on D-end side of flange
	IM 2001	IM B35	B3/B5	Fissata mediante piedi disposti verso il basso; fissaggio ulteriore sul lato della flangia con fori passanti rivolto verso il lato comando Mounted by feet, feet down, with additional mounting on D-end side of flange
	IM 3601	IM B14	B14	Fissata sul lato della flangia con fori filettati, rivolto verso il lato comando Mounted by on D-end side of flange with tapped holes
	IM 2101	IM B34	B3/B14	Fissata mediante piedi, piedi disposti verso il basso. Fissaggio ulteriore sul lato della flangia con fori filettati rivolto verso il lato comando. Mounted by feet, feet down, with additional mounting on D-end side of flange with tapped holes
	IM 1051	IM B6	B6	Fissata mediante piedi; piedi a sinistra (visti dal lato comando) Mounted by feet, feet left (viewed from D-end)
	IM 1061	IM B7	B7	Fissata mediante piedi; piedi a destra (visti dal lato comando) Mounted by feet, feet right (viewed from D-end)
	IM 1070	IM B8	B8	Fissata mediante piedi; piedi disposti verso l'alto Mounted by feet, feet up



Forme costruttive
Construction Forms

18.05.2007
Sheet N° 10

Macchine ad asse verticale
Machines with vertical shaft

Tables N° 05

Figura Sketch	CEI EN 60034-7		UNEL 05513	
	Cod. II	Cod. I		
	IM 1011	IM V5	V5	Fissata mediante piedi; lato comando in basso Mounted by feet, D-end down
	IM 1031	IM V6	V6	Fissata mediante piedi; lato comando in alto Mounted by feet, D-end up
	IM 3031	IM V3	V3	Fissata sul lato della flangia con fori passanti rivolto verso il lato comando, lato comando in alto Mounted on D-end side of flange, D-end up
	IM 3011	IM V1	V1	Fissata sul lato della flangia con fori passanti, rivolto verso il lato comando, lato comando in basso Mounted on D-end side of flange, D-end down
	IM 2031	IM V36	V3/V6	Fissata mediante piedi; fissaggio ulteriore sulla flangia con fori passanti dal lato comando; lato comando in alto Mounted by feet, feet down, with additional mounting on D-end side of flange, D-end up
	IM 2011	IM V15	V1/V5	Fissata mediante piedi; fissaggio ulteriore sulla flangia con fori passanti dal lato comando; lato comando in basso Mounted by feet, feet down, with additional mounting on D-end side of flange, D-end down
	IM 3611	IM V18	V18	Fissata sul lato della flangia con fori filettati, dal lato comando, lato comando in basso Mounted by on D-end side of flange with tapped holes, D-end down
	IM 3631	IM V19	V19	Fissata sul lato della flangia con fori filettati, dal lato comando, lato comando in alto Mounted by on D-end side of flange with tapped holes, D-end up



Figura Sketch	CEI EN 60034-6 Semplificata Simplified	CEI EN 60034-6 Completo Complete	Descrizione Description	CEI EN 60034-5 Grado di Protezione Degrees of Protection
	IC 0 0	IC 0 A 0	Macchina raffreddata naturalmente Free convection	
	IC 0 1	IC 0 A 1	Macchina autoventilata Self-circulation	
	IC 1 1	IC 1 A 1	Macchina autoventilata con canale di aspirazione Self-circulation Inlet pipe duct circulated	
	IC 0 6	IC 0 A 6	Macchina raffreddata mediante dispositivo indipendente aspirante montato assialmente sulla macchina Circulation by machine-mounted axial Inlet independent component	IP 23
	IC 0 6	IC 0 A 6	Macchina raffreddata mediante dispositivo indipendente premente montato assialmente sulla macchina Circulation by machine-mounted axial Outlet independent component	
	IC 0 6	IC 0 A 6	Macchina raffreddata mediante dispositivo indipendente montato sulla macchina Circulation by machine-mounted independent component	
	IC 1 6	IC 1 A 6	Macchina raffreddata mediante dispositivo indipendente montato sulla macchina con canale di aspirazione Circulation by machine-mounted independent component, Inlet pipe duct circulated	
	IC 2 6	IC 2 A 6	Macchina raffreddata mediante dispositivo indipendente montato sulla macchina con canale di scarico Circulation by machine-mounted independent component, Outlet pipe duct circulated	

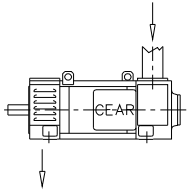
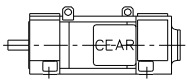
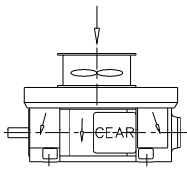
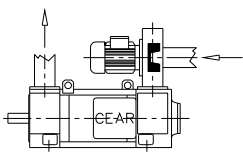
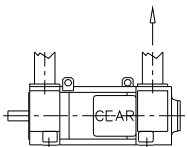
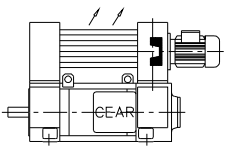
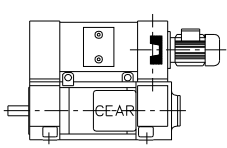
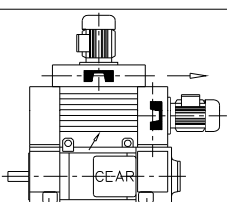


Metodi di Raffreddamento delle macchine elettriche rotanti

Rotating electrical machines, Methods of cooling

19.05.2007
Sheet N° 01

Tables N° 08

Figura Sketch	CEI EN 60034-6 Semplificata Simplified	CEI EN 60034-6 Completo Complete	Descrizione Description	CEI EN 60034-5 Grado di Protezione Degrees of Protection
	IC 1 7	IC 1 A 7	Macchina raffreddata mediante dispositivo separato e indipendente, mediante pressione della rete di distribuzione Circulation by separate and independent component, by coolant pressure system	IP 23
	IC 410	IC 4A1A0	Macchina chiusa raffreddata naturalmente Free-convection	
	IC 416	IC 4A1A6	Macchina chiusa raffreddata superficialmente, mediante dispositivo indipendente montato sulla macchina Frame surface cooled, circulation by machine-mounted independent component	
	IC 3 6	IC 3 A 6	Macchina raffreddata mediante dispositivo indipendente montato sulla macchina, canali di aspirazione e scarico Circulation by machine-mounted independent component, Inlet and Outlet pipe duct circulated	
	IC 3 7	IC 3 A 7	Macchina raffreddata mediante dispositivo separato e indipendente, canali di aspirazione e scarico Circulation by separate and independent component, Inlet and Outlet pipe duct circulated	IP 44
	IC 00 66	IC 6A6A0	Scambiatore di calore montato sulla macchina, circolazione mediante dispositivo indipendente. Machine-mouted heat exchanger, circulation by independent component	
	IC W37A86	IC 8A6W7	Scambiatore di calore montato sulla macchina, circolazione mediante dispositivo indipendente. Aria-Acqua Machine-mouted heat exchanger, circulation by independent component. Air-Water cooling	
	IC 06 66	IC 6A6A6	Scambiatore di calore montato sulla macchina, circolazione mediante dispositivo indipendente. Aria-Aria Machine-mouted heat exchanger, circulation by independent component. Air-Air cooling	



TIPI DI SERVIZIO E IDENTIFICAZIONE DEL SERVIZIO

Tabella/Tables
N° 9

DUTY TYPES AND DECLARATION OF DUTY

Foglio/Sheet
N° 1

T: Temperature
 - - - - - Max
 · · · · · Average
 ————— Instantaneous

P: Carico load
 Pv: Perdite elettriche Electrical losses

Servizio continuo S1

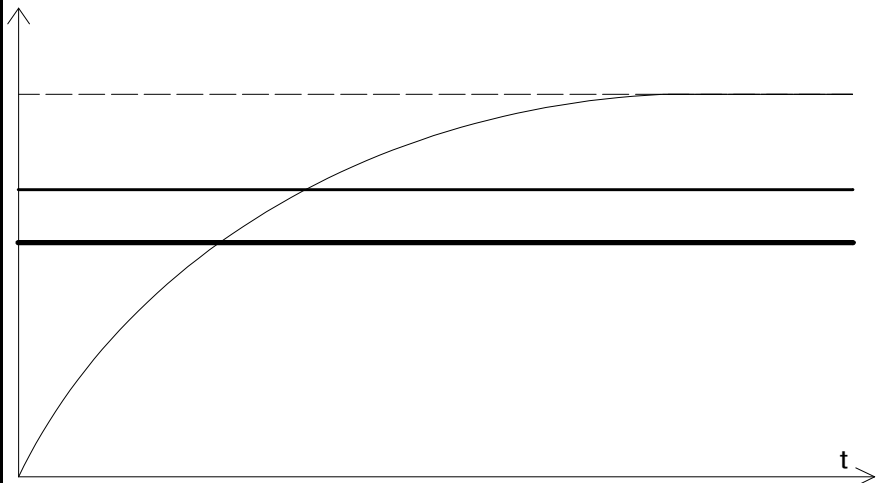
Funzionamento a carico costante di durata sufficiente a consentire alla macchina il raggiungimento dell'equilibrio termico.

L'abbreviazione appropriata è S1.

Continuous running duty S1

Operation at a constant load maintained for sufficient time to allow the machine to reach thermal equilibrium.

The appropriate abbreviation is S1.



Servizio di durata limitata S2

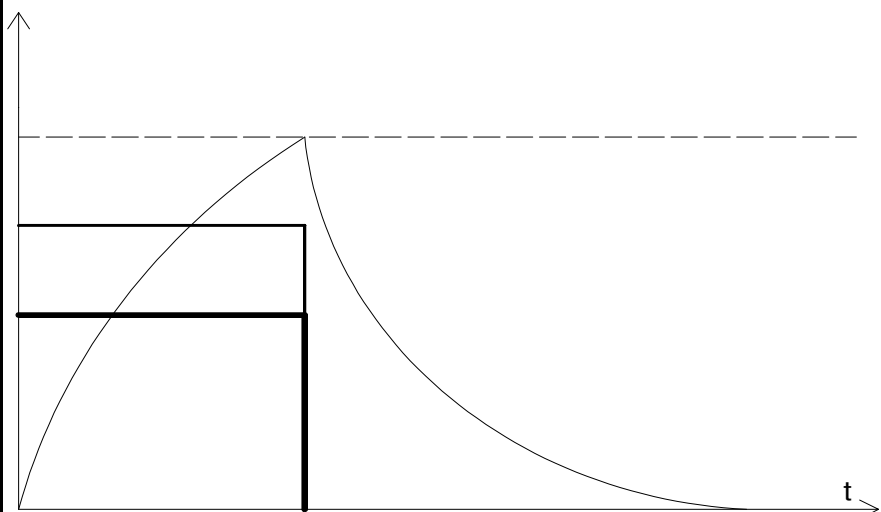
Funzionamento a carico costante per un periodo di tempo determinato, inferiore a quello richiesto per raggiungere l'equilibrio termico, seguito da un tempo di riposo di durata sufficiente a ristabilire l'uguaglianza fra la temperatura della macchina e quella del fluido di raffreddamento, con una tolleranza di 2 K.

L'abbreviazione appropriata è S2, seguita dall'indicazione della durata del servizio.

Short - time duty S2

Operation at constant load for a given time, less than that required to reach thermal equilibrium, followed by a time de-energized and at rest of sufficient duration to re-establish machine temperatures within 2 K of the coolant temperature.

The appropriate abbreviation is S2, followed by an indication of the duration of the duty.



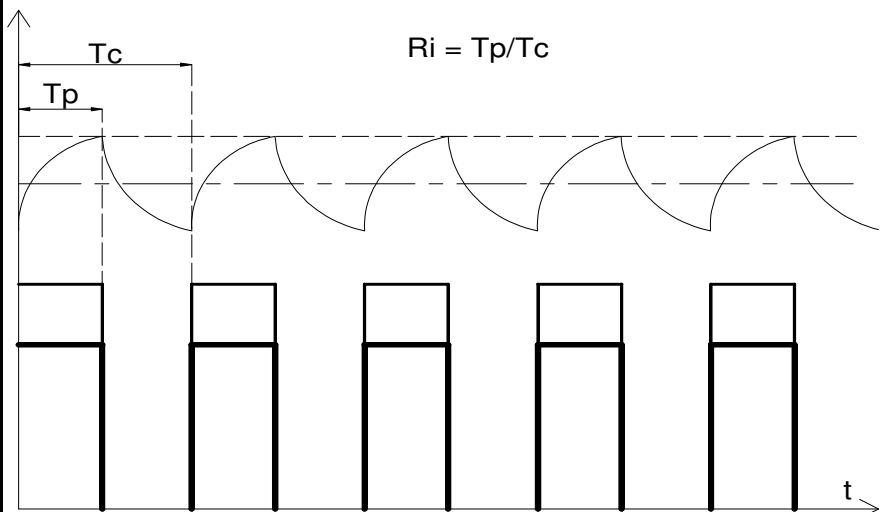
Servizio intermittente periodico S3⁽¹⁾

Sequenza di cicli di funzionamento identici, ciascuno comprendente un tempo di funzionamento a carico costante ed un tempo di riposo. In questo servizio il ciclo è tale che la corrente di avviamento non influenza la sovratemperatura in maniera significativa. L'abbreviazione appropriata è S3, seguita dall'indicazione del rapporto di intermittenza Ri.

Intermittent periodic duty S3⁽¹⁾

A sequence of identical duty cycles, each including a time of operation at constant load and a time de-energized and at rest. In this duty, the cycle is such that the starting current does not significantly affect the temperature rise.

The appropriate abbreviation is S3, followed by the cyclic duration factor Ri.



(1) Il servizio periodico implica che l'equilibrio termico non è raggiunto durante il periodo a carico.

(1) Periodic duty implies that thermal equilibrium is not reached during the time on load.



TIPI DI SERVIZIO E IDENTIFICAZIONE DEL SERVIZIO

Tabella/Tables
N° 9

DUTY TYPES AND DECLARATION OF DUTY

Foglio/Sheet
N° 2

----- Max
T: Temperature - - - - - Average
————— Instantaneous

P: Carico
load

Pv: Perdite elettriche
Electrical losses

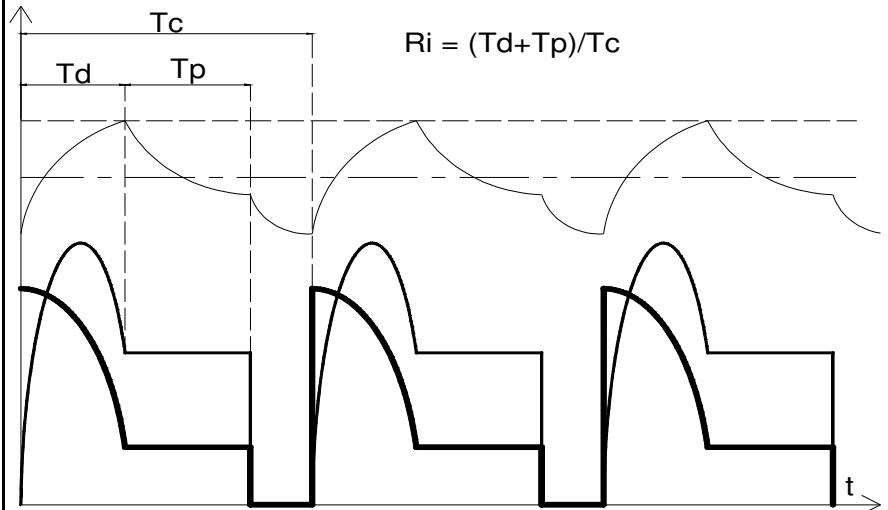
Servizio intermittente periodico con avviamento S4⁽¹⁾

Sequenza di cicli di funzionamento identici, ciascuno comprendente un tempo non trascurabile di avviamento, un tempo di funzionamento a carico costante ed un tempo di riposo.

L'abbreviazione appropriata è S4, seguita dal rapporto di intermittenza Ri, dal momento d'inerzia del motore e dal momento d'inerzia del carico, questi ultimi due riferiti all'albero motore.

Intermittent periodic duty with starting S4⁽¹⁾

A sequence of identical duty cycles, each cycle including a significant starting time, a time of operation at constant load and a time de-energized and at rest. The appropriate abbreviation is S4, followed by the cyclic duration factor Ri, the moment of inertia of the motor and the moment of inertia of the load, both referred to the motor shaft.



Servizio intermittente periodico con frenatura elettrica S5⁽¹⁾

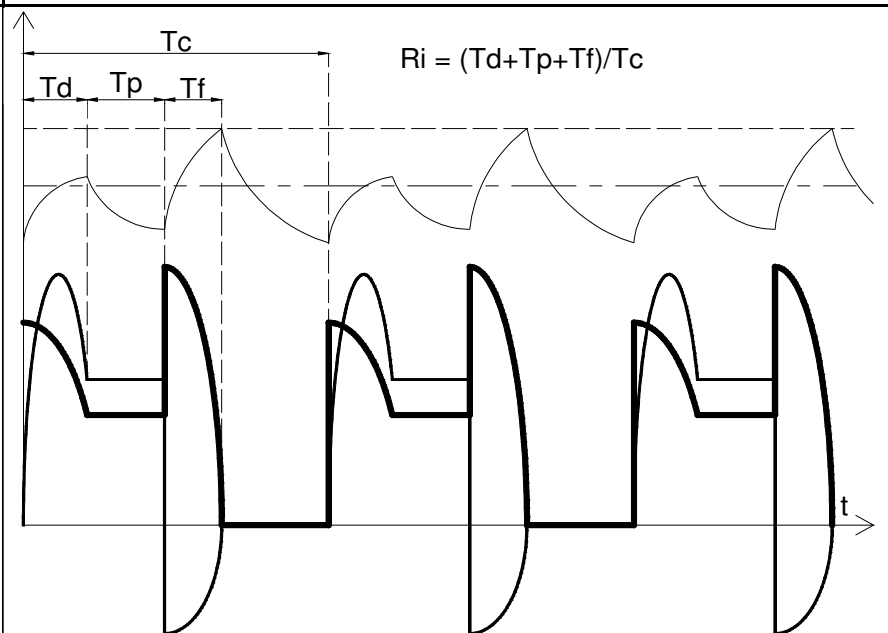
Sequenza di cicli di funzionamento identici, ciascuno comprendente un tempo di avviamento, un tempo di funzionamento a carico costante, un tempo di frenatura elettrica rapida ed un tempo di riposo.

L'abbreviazione appropriata è S5, seguita dal rapporto di intermittenza Ri, dal momento d'inerzia del motore e dal momento d'inerzia del carico, questi ultimi due riferiti all'albero motore.

Intermittent periodic duty with electric braking S5⁽¹⁾

A sequence of identical duty cycles, each cycle consisting of a starting time, a time of operation at constant load, a time of electric braking and a time de-energized and at rest.

The appropriate abbreviation is S5, followed by the cyclic duration factor Ri, the moment of inertia of the motor and the moment of inertia of the load, both referred to the motor shaft.



Servizio ininterrotto periodico S6⁽¹⁾

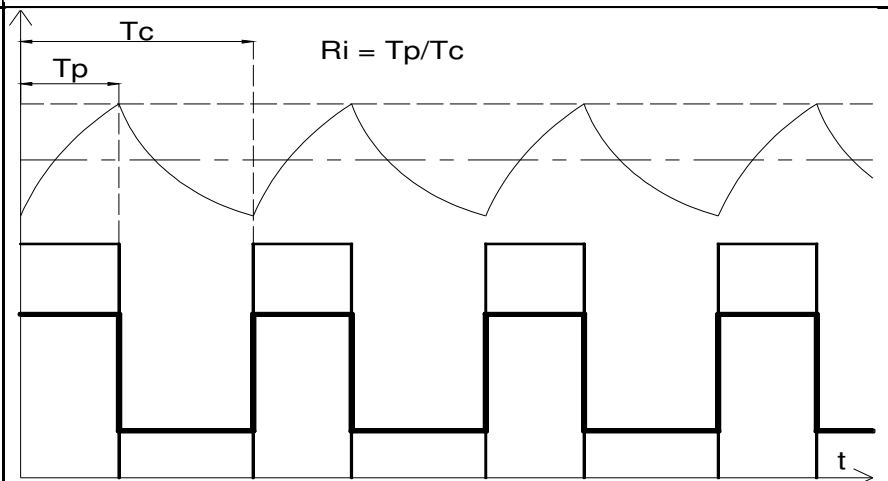
Sequenza di cicli di funzionamento identici, ciascuno comprendente un tempo di funzionamento a carico costante ed un tempo di funzionamento a vuoto. Non esiste alcun tempo di riposo.

L'abbreviazione appropriata è S6, seguita dal rapporto d'intermittenza Ri.

Continuous-operation periodic duty S6⁽¹⁾

A sequence of identical duty cycles, each cycle consisting of a time of operation at constant load and a time of operation at no-load. There is no time de-energized and at rest.

The appropriate abbreviation is S6, followed by the cyclic duration factor Ri.



(1) Il servizio periodico implica che l'equilibrio termico non è raggiunto durante il periodo a carico.

(1) Periodic duty implies that thermal equilibrium is not reached during the time on load.



TIPI DI SERVIZIO E IDENTIFICAZIONE DEL SERVIZIO

Tabella/Tables
N° 9

DUTY TYPES AND DECLARATION OF DUTY

Foglio/Sheet
N° 3

----- Max
 T: Temperature - - - - - Average
 ————— Instantaneous

P: Carico
load

Pv: Perdite elettriche
Electrical losses

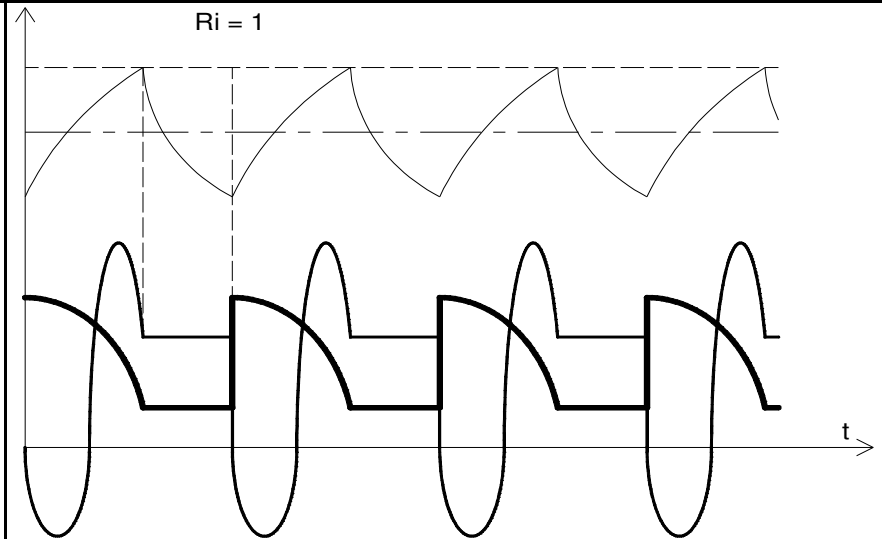
n: Velocità
speed

Servizio ininterrotto periodico con frenatura elettrica S7⁽¹⁾

Sequenza di cicli di funzionamento identici, ciascuno comprendente un tempo di avviamento, un tempo di funzionamento a carico costante ed un tempo di frenatura elettrica. Non esiste alcun periodo di riposo. L'abbreviazione appropriata è S7, seguita dal momento d'inerzia del motore e dal momento d'inerzia del carico, entrambi riferiti all'albero motore.

Continuous-operation periodic duty with electric braking S7⁽¹⁾

A sequence of identical duty cycles, each cycle consisting of a starting time, a time of operation at constant load and a time of electric braking. There is no time de-energized and at rest. The appropriate abbreviation is S7, followed by the moment of inertia of the motor and the moment of inertia of the load, both referred to the motor shaft.

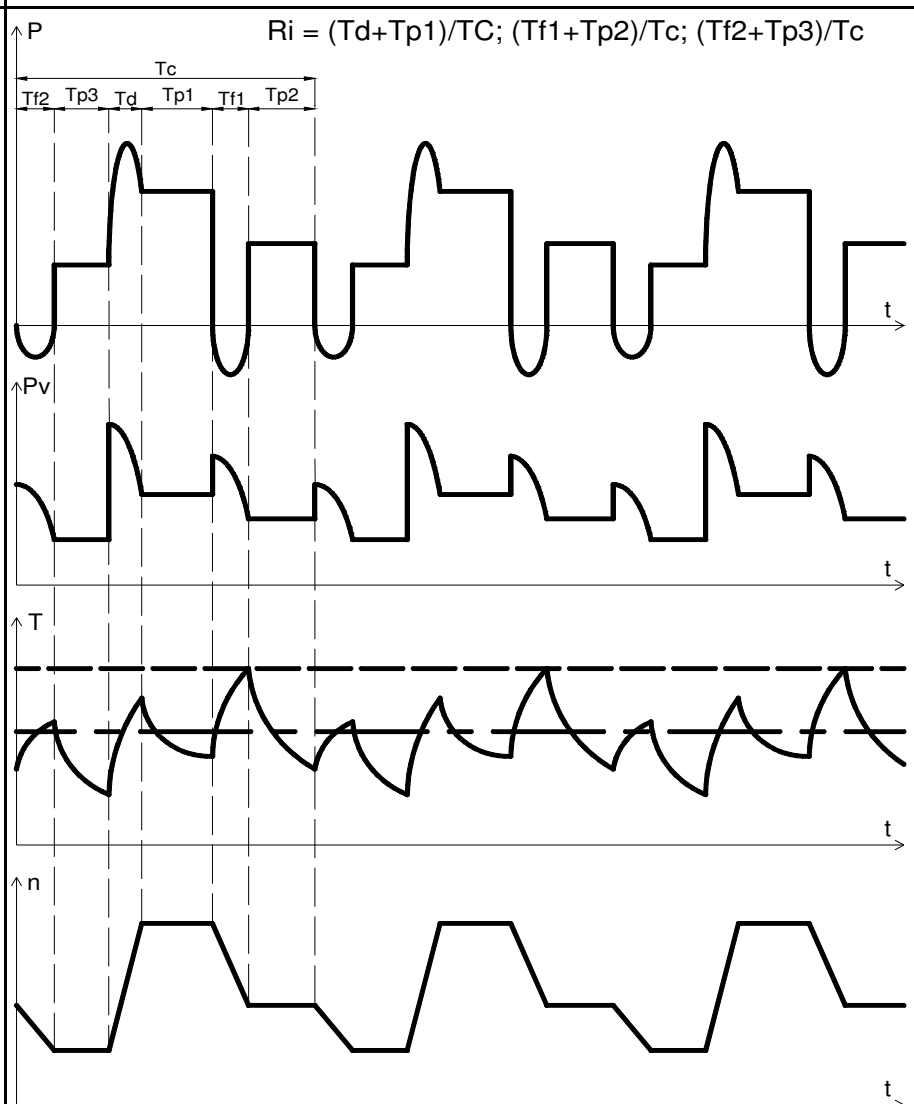


Servizio ininterrotto periodico con variazioni correlate di carico e velocità S8⁽¹⁾

Sequenza di cicli di funzionamento identici, ciascuno comprendente un tempo di funzionamento a carico costante corrispondente ad una prestabilita velocità di rotazione, seguito da uno o più tempi di funzionamento con altri carichi costanti corrispondenti a diverse velocità di rotazione (realizzato per esempio mediante cambio del numero di poli nel caso dei motori a induzione). Non esiste alcun tempo di riposo. L'abbreviazione appropriata è S8, seguita dal momento d'inerzia del motore e dal momento d'inerzia del carico, entrambi riferiti all'albero del motore, insieme al carico, alla velocità e al rapporto di intermittenza Ri, per ogni regime caratterizzato da una determinata velocità.

Continuous-operation periodic duty with related load/speed changes S8⁽¹⁾

A sequence of identical duty cycles, each cycle consisting of a time of operation at constant load corresponding to a predetermined speed of rotation, followed by one or more times of operation at other constant loads corresponding to different speed of rotation (carried out, for example, by means of a change in the number of poles in the case of induction motors). There is no time de-energized and at rest. The appropriate abbreviation is S8, followed by the moment of inertia of the motor and the moment of inertia of the load, both referred to the motor shaft, together with the load, speed and cyclic duration factor Ri for each speed condition.



(1) Il servizio periodico implica che l'equilibrio termico non è raggiunto durante il periodo a carico.

(1) Periodic duty implies that thermal equilibrium is not reached during the time on load.



TIPI DI SERVIZIO E IDENTIFICAZIONE DEL SERVIZIO

Tabella/Tables
N° 9

DUTY TYPES AND DECLARATION OF DUTY

Foglio/Sheet
N° 4

----- Max
- - - - - Average
———— Instantaneous

T: Temperature

P: Carico load

Pv: Perdite elettriche Electrical losses

n: Velocità speed

Servizio con variazioni non periodiche di carico e velocità S9

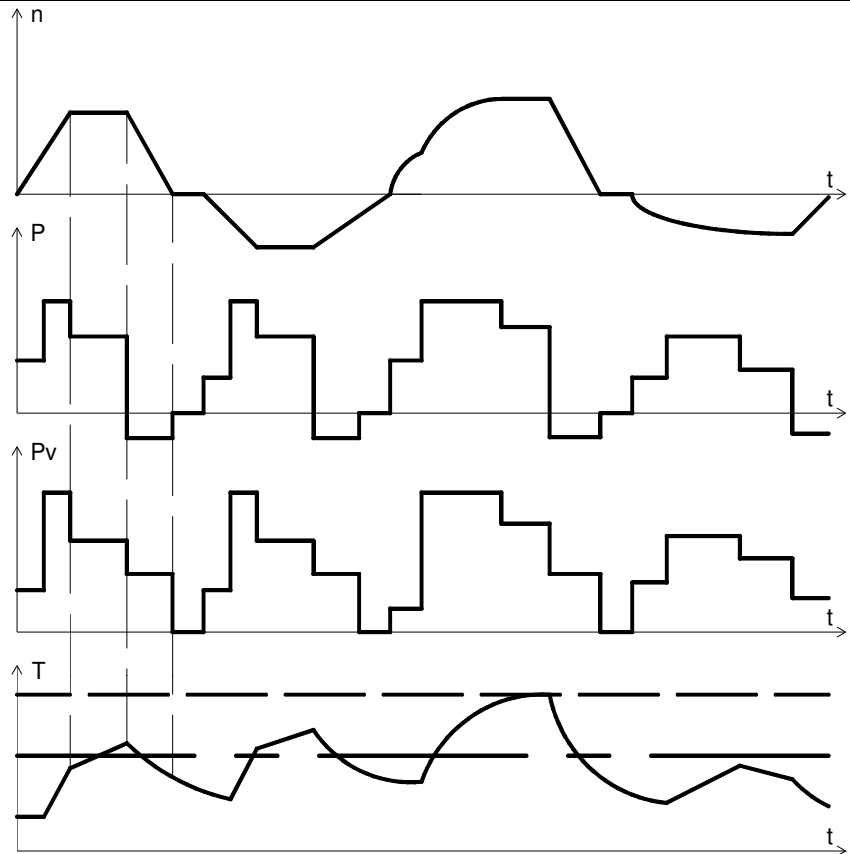
Servizio in cui generalmente il carico e la velocità variano in modo non periodico nel campo di funzionamento ammissibile. Questo servizio comprende sovraccarichi frequentemente applicati che possono essere largamente superiori ai valori di pieno carico.

L'abbreviazione appropriata è S9. Per questo tipo di servizio si prende come valore di riferimento per il concetto di sovraccarico un carico costante adeguatamente scelto e basato sul tipo di servizio S1.

Duty with non-periodic load and speed variations S9

A duty in which generally load and speed vary non-periodically within the permissible operating range. This duty includes frequently applied overloads that may greatly exceed the reference load.

The appropriate abbreviation is S9. For this duty type, a constant load appropriately selected and based on duty type S1 is taken as the reference value for the overload concept.



Servizio con carichi distinti costanti S10

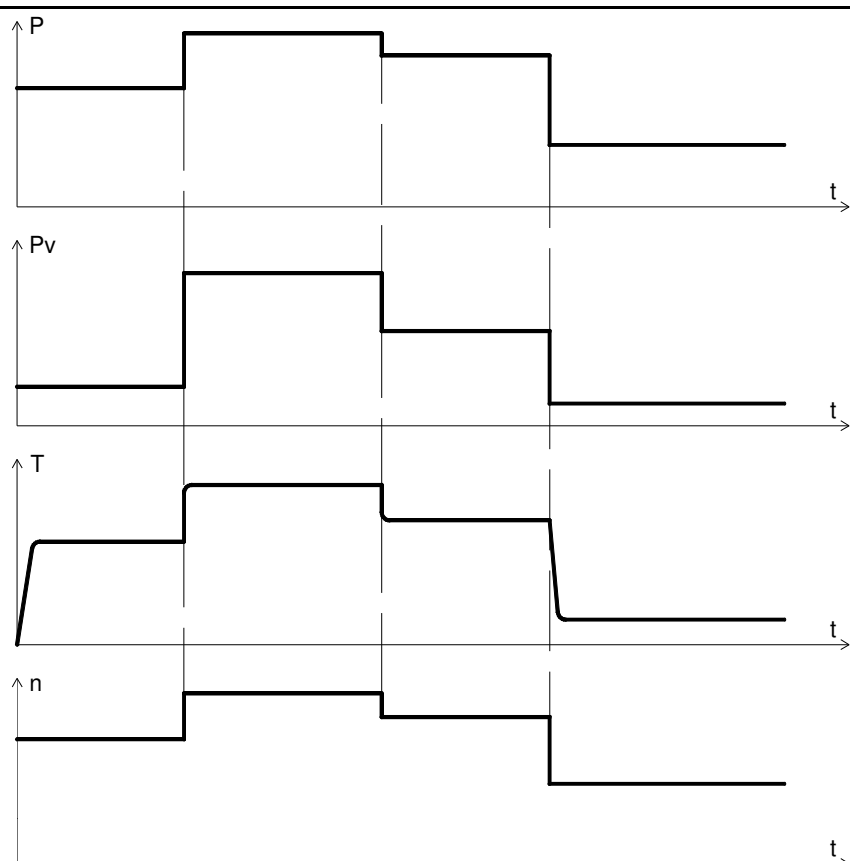
Servizio che consiste in un numero specifico di valori distinti di carico (o carico equivalente), mantenendo ogni valore per un tempo sufficiente per consentire alla macchina di raggiungere l'equilibrio termico. Il carico minimo durante un ciclo di servizio può avere valore zero (a vuoto o in stato di riposo).

L'abbreviazione appropriata è S10. Per questo tipo di servizio, deve essere assunto come valore di riferimento per i carichi distinti un carico costante adeguatamente scelto e basato sul servizio S1.

Duty with discrete constant loads and speeds S10

A duty consisting of a specific number of discrete values of load (or equivalent loading) and if applicable, speed, each load/speed combination being maintained for sufficient time to allow the machine to reach thermal equilibrium. The minimum load within a duty cycle may have the value zero (no-load or de-energized and at rest).

The appropriate abbreviation is S10. For this duty type a constant load appropriately selected and based on duty type S1 shall be taken as the reference value for the discrete loads.





**Motori Serie MGL
Motoren Serie MGL
Motor Series MGL**

Tabella / Tisch / Tables
N° 14 C

Foglio / Seite / Sheet
N° 1

TIPO TYP TYPE			Momento inerzia Trageistsmoment Moment of inertia		Eccitazione Erregung Excitation		Dati di Ventilazione Angaben über die belufung Ventilation Data			
	PESO GEWICHT WEIGHT	Velocità Drehzahl Speed Max	PD2	J	Costante di tempo Feldzeitconstant Time Constant	Potenza Erregerleistung Power	Potenza Leistung Out Put	Pressione Druck Pressure	Portata Forderstrom Air Flow	
	Kg	giri/1' u/min r.p.m.	Kgm ²	Kgm ²	ms	W	50Hz kW	mm H ₂ O	m ³ /1'	
80	S	40	5000	0.028	0.007	95	230	0.12	45	4
	M	46		0.034	0.0085	120	260			
	L	53		0.044	0.011	145	290			
100	S	64	5000	0.076	0.019	140	350	0.25	70	6
	M	72		0.092	0.023	165	380			
	L	82		0.112	0.028	180	430			
112	S	82	5000	0.156	0.039	130	500	0.25	70	6
	M	92		0.188	0.047	140	550			
	L	110		0.228	0.057	150	600			
132	S	139	5000	0.380	0.095	160	650	0.55	80	10
	M	155		0.452	0.113	175	750			
	L	175		0.546	0.137	190	850			
	P	195		0.620	0.155	209	950			
160	K	220	4500	0.80	0.20	210	920	1.1	100	18
	S	238		0.92	0.23	230	1000			
	M	264		1.12	0.28	260	1100			
	L	302		1.36	0.34	290	1200			
	P	320		1.48	0.37	310	1300			



TABELLA SELEZIONE MOTORI
MGL 80 - 100 - 112

DATA: 01/12/2011

Foglio 1 di 2

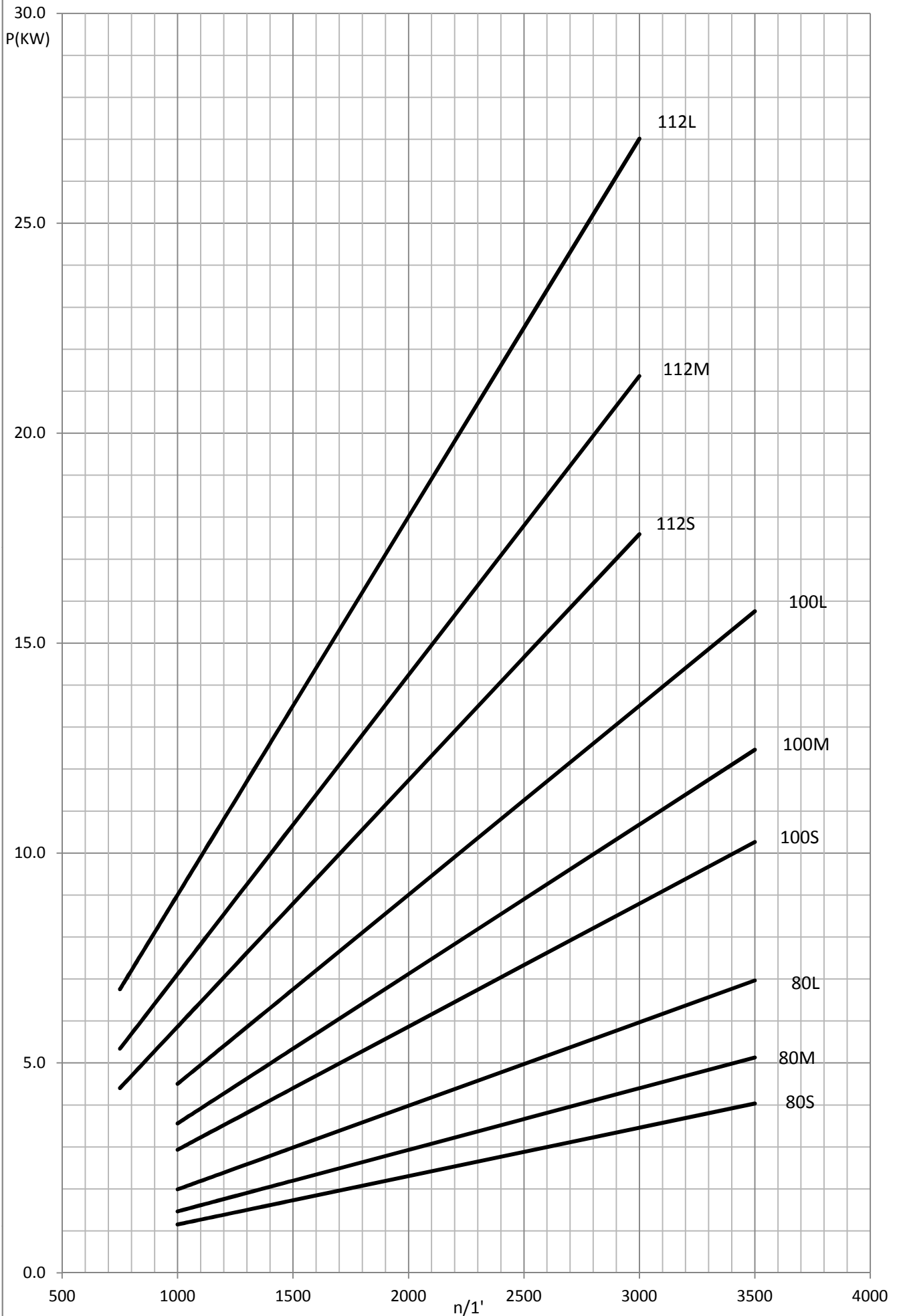
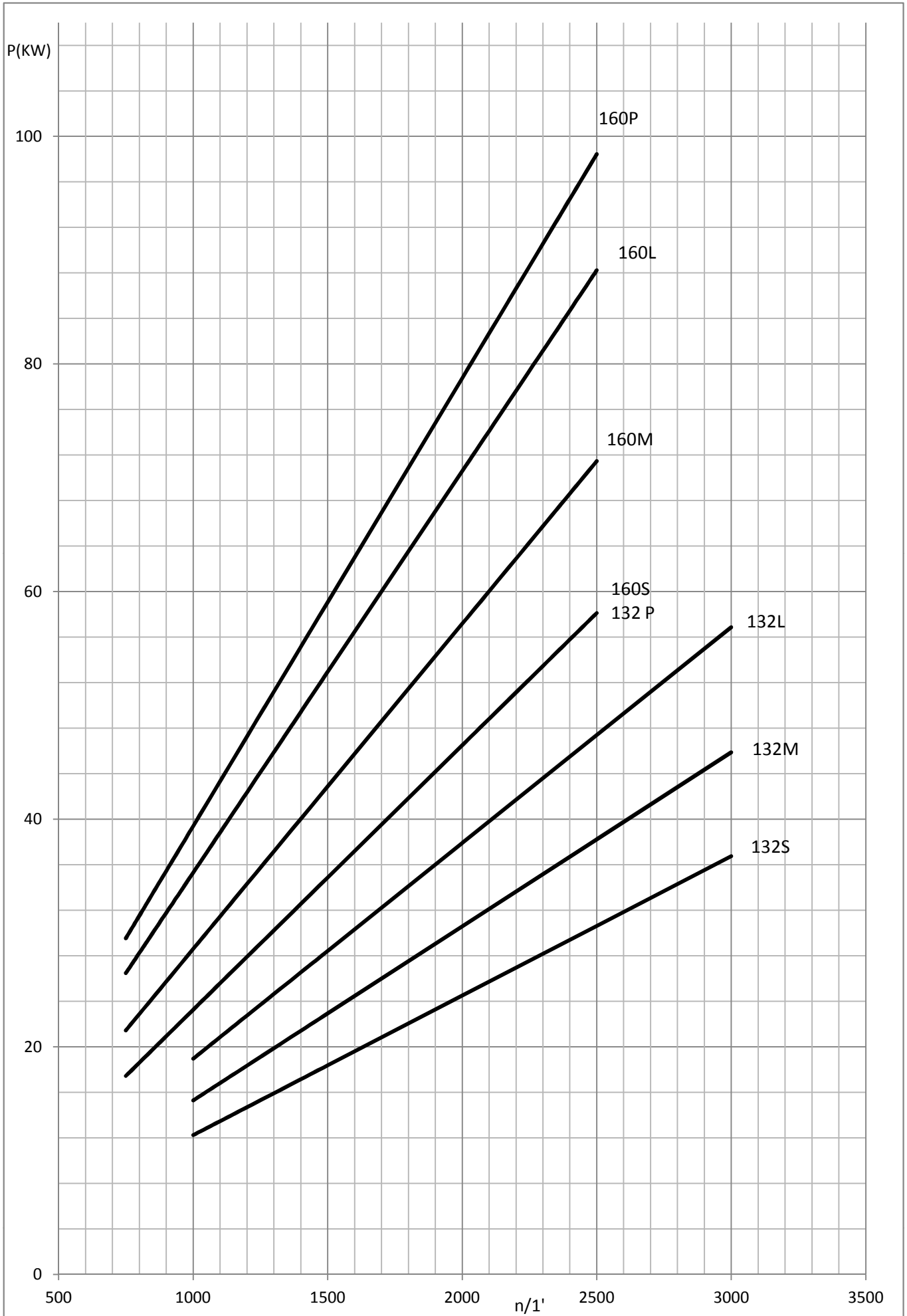




TABELLA SELEZIONE MOTORI
MGL 132 - 160

DATA: 01/12/2011

Foglio 2 di 2





Potenza eccitazione Excitation power	(w)	920	Tipo Size			MGL	160	K
Cost. tempo eccitaz. Field time constant	(ms)	209	Ventilazione Ventilation			IC 06		
Massa del motore Mass of the motor	(Kg)	220						
Momento d'inerzia rotore Rotor inertia moment	(Kgm2)	0.2						

Avv.	Velocità nominale n/min a tensione nominale di armatura Rated speed (rev/min) at rated voltage							Potenza Power kW	Coppia vel.nomin. Torque at rated speed Nm	Rendimento Efficiency %	Circuito di armatura Armature circuit			Max giri Max. speed (°)		
	220	400	440	460	470	520	600				Corrente Current Amp	Res. 115°C mOhm	Ind. mH			
45	2355	---	---	---	---	---	---	41.8	170	89.6	212	60.2	1.10	3768	*	
		4420	---	---	---	---	---	63.8	138	92.2	173			4500	*	
46	1930	---	---	---	---	---	---	35.9	178	88.7	184	86.5	1.57	3092	*	
		3655	---	---	---	---	---	67.8	177	92.1	184			4500	*	
		4035	---	---	---	---	---	---	74.9	177	92.5			184	4500	*
			4230	---	---	---	---	---	77.1	174	92.6			181	4500	*
			4325	---	---	---	---	---	77.1	170	92.7			177	4500	*
47	1630	---	---	---	---	---	---	30.8	180	87.5	160	118	2.14	2612		
		3110	---	---	---	---	---	58.6	180	91.6	160			3933		
		3435	---	---	---	---	---	---	64.8	180	92.0			160	3981	
			3600	---	---	---	---	---	67.9	180	92.3			160	4002	
			3680	---	---	---	---	---	69.5	180	92.4			160	4012	
48	1410	---	---	---	---	---	---	26.8	182	86.4	141	152	2.77	2255		
		2700	---	---	---	---	---	51.4	182	91.1	141			3417		
		2990	---	---	---	---	---	---	56.9	182	91.7			141	3459	
			3130	---	---	---	---	---	59.6	182	91.9			141	3478	
		3205	---	---	---	---	---	---	61.0	182	92.0			141	3486	
			3560	---	---	---	---	---	67.8	182	92.5			141	3562	
49	1235	---	---	---	---	---	---	23.4	181	85.1	125	195	3.58	1974		
		2380	---	---	---	---	---	45.2	181	90.4	125			3041		
		2635	---	---	---	---	---	---	50.1	182	91.1			125	3079	
			2765	---	---	---	---	---	52.5	181	91.3			125	3096	
		2830	---	---	---	---	---	---	53.7	181	91.4			125	3104	
			3145	---	---	---	---	---	59.7	181	91.8			125	3147	
		3655	---	---	---	---	---	66.5	174	92.4	120			3657		
50	1130	---	---	---	---	---	---	21.2	179	84.5	114	227	4.18	1807		
		2190	---	---	---	---	---	41.1	179	90.1	114			3500		
		2425	---	---	---	---	---	---	45.5	179	90.7			114	3877	
			2540	---	---	---	---	---	47.7	179	91.0			114	4065	
		2600	---	---	---	---	---	---	48.8	179	91.1			114	4159	
			2895	---	---	---	---	---	54.3	179	91.6			114	4500	
51	985	---	---	---	---	---	---	18.7	181	83.3	102	286	5.32	1575		
		1925	---	---	---	---	---	36.4	181	89.2	102			2490		
		2135	---	---	---	---	---	---	40.4	181	90.0			102	2522	
			2235	---	---	---	---	---	42.4	181	90.4			102	2536	
		2290	---	---	---	---	---	---	43.4	181	90.5			102	2543	
			2550	---	---	---	---	---	48.3	181	91.1			102	2572	
		2965	---	---	---	---	---	54.4	175	92.0	98.6			2967		

Nota (*) - VENTILAZIONE SOLO L.O. / FAN ONLY SIDE COMMUTATOR

Nota (°) - Regolazione di campo / Field weakening



Potenza eccitazione Excitation power	(w)	920	Tipo Size MGL 160 K Ventilazione Ventilation IC 06
Cost. tempo eccitaz. Field time constant	(ms)	209	
Massa del motore Mass of the motor	(Kg)	220	
Momento d'inerzia rotore Rotor inertia moment	(Kgm2)	0.2	

Avv.	Velocità nominale n/min a tensione nominale di armatura Rated speed (rev/min) at rated voltage							Potenza Power kW	Coppia vel.nomin. Torque at rated speed Nm	Rendimento Efficiency %	Circuito di armatura Armature circuit			Max giri Max. speed (°)						
	220	400	440	460	470	520	600				Corrente Current Amp	Res. 115°C mOhm	Ind. mH							
52	915	---	---	---	---	---	---	17.4	182	82.4	96.0	327	6.0	1462						
		1795	---	---	---	---	---	34.1	181	88.8	96.0				2873					
		---	1990	---	---	---	---	37.8	181	89.5	96.0				3187					
		---	---	2090	---	---	---	39.7	181	89.9	96.0				3344					
		---	---	---	2140	---	---	40.6	181	90.0	96.0				3422					
		---	---	---	---	2385	---	45.3	181	90.7	96.0				3814					
		---	---	---	---	---	2775	52.7	181	91.5	96.0				4441					
		53	810	---	---	---	---	---	---	15.4	182				80.5	87.0	402	7.4	1292	
1600	---			---	---	---	---	30.6	183	87.9	87.0	2088								
---	1780			---	---	---	---	34.0	182	88.8	87.0	2115								
---	---			1865	---	---	---	35.7	183	89.2	87.0	2127								
---	---			---	1910	---	---	36.5	183	89.3	87.0	2133								
---	---			---	---	2130	---	40.7	183	90.0	87.0	2158								
54	760			---	---	---	---	---	---	14.4	181	79.8	82.0	448	8.2	1217				
				1515	---	---	---	---	---	28.7	181	87.5	82.0							2427
		---	1685	---	---	---	---	31.9	181	88.4	82.0	2696								
		---	---	1770	---	---	---	33.5	181	88.8	82.0	2830								
		---	---	---	1810	---	---	34.3	181	89.0	82.0	2897								
		55	645	---	---	---	---	---	---	12.3	182	77.7	72.0				580	10.7	1036	
				1310	---	---	---	---	---	24.9	182	86.5	72.0							2094
				---	1455	---	---	---	---	27.7	182	87.4	72.0							2329
---	---			1530	---	---	---	29.1	182	87.9	72.0	2447								
---	---			---	1565	---	---	29.8	182	88.1	72.0	2506								
---	---			---	---	1750	---	33.2	181	88.7	72.0	2800								
56	555			---	---	---	---	---	---	10.6	182	75.3	64.0	740	13.4	891				
				1145	---	---	---	---	---	21.8	182	85.2	64.0							1832
		---	1275	---	---	---	---	24.2	181	85.9	64.0	2041								
		---	---	1340	---	---	---	25.5	182	86.6	64.0	2146								
		---	---	---	1375	---	---	26.1	181	86.8	64.0	2198								
		---	---	---	---	1535	---	29.3	182	88.0	64.0	2459								
		---	---	---	---	---	1800	34.2	181	89.1	64.0	2878								
		57	490	---	---	---	---	---	---	9.25	180	73.1	57.5				905	16.8	780	
1015	---			---	---	---	---	19.3	182	83.9	57.5	1627								
---	1135			---	---	---	---	21.5	181	85.0	57.5	1815								
---	---			1195	---	---	---	22.6	181	85.4	57.5	1909								
---	---			---	1225	---	---	23.2	181	85.8	57.5	1956								
---	---			---	---	1370	---	26.0	181	87.0	57.5	2192								
58	430			---	---	---	---	---	---	8.09	180	70.7	52.0	1110	20.2	686				
				910	---	---	---	---	---	17.2	181	82.7	52.0							1455
		---	1015	---	---	---	---	19.20	181	83.9	52.0	1627								
		---	---	1070	---	---	---	20.2	180	84.4	52.0	1712								
		---	---	---	1095	---	---	20.7	181	84.7	52.0	1755								
		---	---	---	---	1230	---	23.2	180	85.8	52.0	1969								

Nota (*) - VENTILAZIONE SOLO L.O. / FAN ONLY SIDE COMMUTATOR

Nota (°) - Regolazione di campo / Field weakening



Potenza eccitazione Excitation power (w)	920	Tipo	
Cost. tempo eccitaz. Field time constant (ms)	209	Size	MGL 160 K
Massa del motore Mass of the motor (Kg)	220	Ventilazione Ventilation	IC 06
Momento d'inerzia rotore Rotor inertia moment (Kgm2)	0.2		

Avv.	Velocità nominale n/min a tensione nominale di armatura Rated speed (rev/min) at rated voltage							Potenza Power kW	Coppia vel. nomin. Torque at rated speed Nm	Rendimento Efficiency %	Circuito di armatura Armature circuit			Max giri Max. speed (°)	
	220	400	440	460	470	520	600				Corrente Current Amp	Res. 115°C mOhm	Ind. mH		
59	380	---	---	---	---	---	---	7.42	187	68.8	49.0	1270	24.2	611	
		825	---	---	---	---	---	16.0	185	81.6	49.0				1317
			920	---	---	---	---	17.9	186	83.0	49.0				1474
				970	---	---	---	18.8	185	83.4	49.0				1552
					995	---	---	19.3	185	83.8	49.0				1591
						1115	---	21.7	186	85.2	49.0				1787
							1315	25.5	185	86.7	49.0				2101
60	345	---	---	---	---	---	---	6.71	186	67.0	45.5	1450	27.7	549	
		750	---	---	---	---	---	14.7	187	80.8	45.5				1201
			840	---	---	---	---	16.4	186	81.9	45.5				1346
				885	---	---	---	17.3	187	82.7	45.5				1418
					910	---	---	17.8	187	83.2	45.5				1454
						1020	---	20.0	187	84.5	45.5				1635
61	305	---	---	---	---	---	---	5.88	184	64.4	41.5	1740	32.9	490	
		685	---	---	---	---	---	13.1	183	78.9	41.5				1095
			770	---	---	---	---	14.8	184	81.1	41.5				1229
				810	---	---	---	15.6	184	81.7	41.5				1296
					830	---	---	16.0	184	82.0	41.5				1330
						935	---	18.0	184	83.4	41.5				1498
							1105	21.2	183	85.1	41.5				1767
62	274	---	---	---	---	---	---	5.17	180	61.8	38	2050	38.3	439	
		625	---	---	---	---	---	11.8	180	77.6	38.0				1003
			705	---	---	---	---	13.3	180	79.5	38.0				1129
				745	---	---	---	14.0	179	80.1	38.0				1192
					765	---	---	14.4	180	80.6	38.0				1223
						860	---	16.2	180	82.0	38.0				1380
							1020	19.2	180	84.2	38.0				1631

Nota (*) - VENTILAZIONE SOLO L.O. / FAN ONLY SIDE COMMUTATOR

Nota (°) - Regolazione di campo / Field weakening



Potenza eccitazione Excitation power	(w)	1000	Tipo		
Cost. tempo eccitaz. Field time constant	(ms)	230	Size	MGL	160 S
Massa del motore Mass of the motor	(Kg)	238	Ventilazione Ventilation		IC 06
Momento d'inerzia rotore Rotor inertia moment	(Kgm2)	0.23			

Avv.	Velocità nominale n/min a tensione nominale di armatura Rated speed (rev/min) at rated voltage							Potenza Power kW	Coppia vel.nomin. Torque at rated speed Nm	Rendimento Efficiency %	Circuito di armatura Armature circuit			Max giri Max. speed (°)	
	220	400	440	460	470	520	600				Corrente Current Amp	Res. 115°C mOhm	Ind. mH		
45	1950	---	---	---	---	---	---	41.8	205	89.6	212	66.4	1.31	3120	*
		3670	---	---	---	---	---	75.6	197	92.6	204			4500	*
			4055	---	---	---	---	77.0	181	93.1	188			4500	*
				4245	---	---	---	77.2	174	93.2	180			4500	*
					4340	---	---	77.2	170	93.3	176			4500	*
46	1595	---	---	---	---	---	---	35.8	214	88.4	184	95.4	1.87	2555	
		3030	---	---	---	---	---	67.9	214	92.3	184			4100	*
			3350	---	---	---	---	75.0	214	92.6	184			4154	*
				3510	---	---	---	78.6	214	92.9	184			4177	*
					3590	---	---	80.4	214	93.0	184			4188	*
				3990	---	89.3	214	93.3	184	4238	*				
47	1345	---	---	---	---	---	---	30.6	217	86.9	160	130	2.55	2155	
		2575	---	---	---	---	---	58.6	217	91.6	160			3467	
			2850	---	---	---	---	64.8	217	92.0	160			3512	
				2985	---	---	---	68.0	218	92.4	160			3532	
					3055	---	---	69.5	217	92.4	160			3542	
48	1160	---	---	---	---	---	---	26.6	219	85.8	141	167	3.30	1859	
		2240	---	---	---	---	---	51.3	219	91.0	141			3012	
			2475	---	---	---	---	56.8	219	91.6	141			3052	
				2595	---	---	---	59.6	219	91.9	141			3069	
					2655	---	---	60.9	219	91.9	141			3077	
				2955	---	67.8	219	92.5	141	3114					
49	1015	---	---	---	---	---	---	23.2	218	84.4	125	215	4.27	1624	
		1970	---	---	---	---	---	45.1	219	90.2	125			2680	
			2185	---	---	---	---	50.0	219	90.9	125			2716	
				2290	---	---	---	52.4	219	91.1	125			2732	
					2345	---	---	53.6	218	91.2	125			2739	
				2610	---	59.7	218	91.8	125	2772					
					3035	69.4	218	92.5	125	3035					
50	930	---	---	---	---	---	---	21.0	216	83.7	114	249	4.98	1486	
		1810	---	---	---	---	---	41.0	216	89.9	114			2897	
			2005	---	---	---	---	45.4	216	90.5	114			3210	
				2105	---	---	---	47.6	216	90.8	114			3367	
					2155	---	---	48.7	216	90.9	114			3446	
				2400	---	54.3	216	91.6	114	3838					
51	810	---	---	---	---	---	---	18.4	217	82.0	102	315	6.35	1292	
		1590	---	---	---	---	---	36.3	218	89.0	102			2194	
			1765	---	---	---	---	40.3	218	89.8	102			2224	
				1850	---	---	---	42.3	218	90.2	102			2237	
					1895	---	---	43.3	218	90.3	102			2243	
				2110	---	48.2	218	90.9	102	2271					
					2460	56.2	218	91.8	102	2460					

Nota (*) - VENTILAZIONE SOLO L.O. / FAN ONLY SIDE COMMUTATOR

Nota (°) - Regolazione di campo / Field weakening



Potenza eccitazione Excitation power	(w)	1000	Tipo		
Cost. tempo eccitaz. Field time constant	(ms)	230	Size	MGL	160 S
Massa del motore Mass of the motor	(Kg)	238	Ventilazione Ventilation		IC 06
Momento d'inerzia rotore Rotor inertia moment	(Kgm2)	0.23			

Avv.	Velocità nominale n/min a tensione nominale di armatura Rated speed (rev/min) at rated voltage							Potenza Power kW	Coppia vel.nomin. Torque at rated speed Nm	Rendimento Efficiency %	Circuito di armatura Armature circuit			Max giri Max. speed (°)		
	220	400	440	460	470	520	600				Corrente Current Amp	Res. 115°C mOhm	Ind. mH			
52	750	1485	---	---	---	---	---	17.1	218	81.0	96.0	360	7.18	1198		
			---	---	---	---	---	34.0	219	88.5	96.0			2374		
			---	---	---	---	---	37.7	219	89.3	96.0			2635		
			---	---	---	---	---	39.6	219	89.7	96.0			2766		
			---	---	---	---	---	40.5	219	89.8	96.0			2831		
			---	---	---	---	---	45.2	219	90.5	96.0			3158		
			---	---	---	---	---	1975	---	45.2	219			90.5	96.0	3158
			---	---	---	---	---	2300	---	52.6	218			91.3	96.0	3680
53	660	1320	---	---	---	---	---	15.2	220	79.4	87.0	443	8.83	1056		
			---	---	---	---	---	30.4	220	87.4	87.0			1839		
			---	---	---	---	---	33.8	220	88.3	87.0			1865		
			---	---	---	---	---	35.5	219	88.7	87.0			1876		
			---	---	---	---	---	36.4	220	89.0	87.0			1882		
			---	---	---	---	---	1580	---	36.4	220			89.0	87.0	1882
			---	---	---	---	---	1765	---	40.6	220			89.7	87.0	1905
			---	---	---	---	---	---	---	40.6	220			89.7	87.0	1905
54	620	1250	---	---	---	---	---	14.2	219	78.7	82.0	493	9.74	994		
			---	---	---	---	---	28.5	218	86.9	82.0			2002		
			---	---	---	---	---	31.7	218	87.9	82.0			2226		
			---	---	---	---	---	33.3	218	88.3	82.0			2338		
			---	---	---	---	---	34.1	218	88.5	82.0			2394		
			---	---	---	---	---	1495	---	34.1	218			88.5	82.0	2394
55	525	1080	---	---	---	---	---	12.1	220	76.4	72.0	637	12.7	843		
			---	---	---	---	---	24.7	218	85.8	72.0			1725		
			---	---	---	---	---	27.5	219	86.8	72.0			1921		
			---	---	---	---	---	28.9	219	87.3	72.0			2019		
			---	---	---	---	---	29.6	219	87.5	72.0			2068		
			---	---	---	---	---	1290	---	29.6	219			87.5	72.0	2068
			---	---	---	---	---	1445	---	33.1	219			88.4	72.0	2313
56	450	940	---	---	---	---	---	10.6	225	75.3	64.0	814	16.0	722		
			---	---	---	---	---	21.8	222	85.2	64.0			1506		
			---	---	---	---	---	24.2	220	85.9	64.0			1680		
			---	---	---	---	---	25.5	220	86.6	64.0			1768		
			---	---	---	---	---	26.1	221	86.8	64.0			1811		
			---	---	---	---	---	1130	---	26.1	221			86.8	64.0	1811
			---	---	---	---	---	1270	---	29.3	220			88.0	64.0	2029
			---	---	---	---	---	1485	---	34.2	220			89.1	64.0	2377
57	395	835	---	---	---	---	---	9.00	218	71.1	57.5	995	20.0	630		
			---	---	---	---	---	19.1	218	83.0	57.5			1336		
			---	---	---	---	---	21.3	218	84.2	57.5			1492		
			---	---	---	---	---	22.4	218	84.7	57.5			1571		
			---	---	---	---	---	1005	---	23.0	219			85.1	57.5	1610
			---	---	---	---	---	1130	---	25.8	218			86.3	57.5	1806
			---	---	---	---	---	---	---	25.8	218			86.3	57.5	1806
58	345	745	---	---	---	---	---	7.84	217	68.5	52.0	1220	24.1	551		
			---	---	---	---	---	17.0	218	81.7	52.0			1192		
			---	---	---	---	---	19.00	217	83.0	52.0			1335		
			---	---	---	---	---	20.0	217	83.6	52.0			1406		
			---	---	---	---	---	900	---	20.5	218			83.9	52.0	1442
			---	---	---	---	---	1015	---	23.0	216			85.1	52.0	1620
			---	---	---	---	---	---	---	23.0	216			85.1	52.0	1620

Nota (*) - VENTILAZIONE SOLO L.O. / FAN ONLY SIDE COMMUTATOR

Nota (°) - Regolazione di campo / Field weakening



Potenza eccitazione Excitation power (w) 1000	Tipo Size MGL 160 S
Cost. tempo eccitaz. Field time constant (ms) 230	Ventilazione Ventilation IC 06
Massa del motore Mass of the motor (Kg) 238	
Momento d'inerzia rotore Rotor inertia moment (Kgm2) 0.23	

Avv.	Velocità nominale n/min a tensione nominale di armatura Rated speed (rev/min) at rated voltage							Potenza Power kW	Coppia vel. nomin. Torque at rated speed Nm	Rendimento Efficiency %	Circuito di armatura Armature circuit			Max giri Max. speed (°)
	220	400	440	460	470	520	600				Corrente Current Amp	Res. 115°C mOhm	Ind. mH	
59	305	---	---	---	---	---	---	7.16	224	66.4	49.0	1390	28.8	489
		675	---	---	---	---	---	15.8	224	80.6	49.0			1077
		---	755	---	---	---	---	17.7	224	82.1	49.0			1208
		---	---	795	---	---	---	18.6	223	82.5	49.0			1273
		---	---	---	815	---	---	19.1	224	82.9	49.0			1306
		---	---	---	---	815	920	21.5	223	84.4	49.0			1469
		---	---	---	---	---	1080	25.3	224	86.1	49.0			1731
60	274	---	---	---	---	---	---	6.45	225	64.4	45.5	1600	33.0	438
		615	---	---	---	---	---	14.4	224	79.1	45.5			981
		---	690	---	---	---	---	16.2	224	80.9	45.5			1101
		---	---	725	---	---	---	17.1	225	81.7	45.5			1162
		---	---	---	745	---	---	17.5	224	81.8	45.5			1192
		---	---	---	---	840	---	19.8	225	83.7	45.5			1343
61	555	---	---	---	---	---	---	12.9	222	77.7	41.5	1910	39.3	892
		625	---	---	---	---	---	14.5	222	79.4	41.5			1004
		---	660	---	---	---	---	15.3	221	80.1	41.5			1060
		---	---	680	---	---	---	15.7	221	80.5	41.5			1088
		---	---	---	765	---	---	17.8	222	82.5	41.5			1228
		---	---	---	---	905	---	21.0	222	84.3	41.5			1452
		---	---	---	---	---	---	---	---	---	---			---
62	510	---	---	---	---	---	---	11.6	217	76.3	38.0	2250	45.7	816
		575	---	---	---	---	---	13.0	216	77.8	38.0			921
		---	610	---	---	---	---	13.8	216	78.9	38.0			973
		---	---	625	---	---	---	14.2	217	79.5	38.0			999
		---	---	---	705	---	---	16.0	217	81.0	38.0			1130
		---	---	---	---	835	---	19.0	217	83.3	38.0			1339
		---	---	---	---	---	---	---	---	---	---			---

Nota (*) - VENTILAZIONE SOLO L.O. / FAN ONLY SIDE COMMUTATOR

Nota (°) - Regolazione di campo / Field weakening



Potenza eccitazione Excitation power (w) 1100	
Cost. tempo eccitaz. Field time constant (ms) 259	
Massa del motore Mass of the motor (Kg) 264	
Momento d'inerzia rotore Rotor inertia moment (Kgm2) 0.28	
Tipo Size MGL 160 M	
Ventilazione Ventilation IC 06	

Avv.	Velocità nominale n/min a tensione nominale di armatura Rated speed (rev/min) at rated voltage							Potenza Power kW	Coppia vel.nomin. Torque at rated speed Nm	Rendimento Efficiency %	Circuito di armatura Armature circuit			Max giri Max. speed (°)	
	220	400	440	460	470	520	600				Corrente Current Amp	Res. 115°C mOhm	Ind. mH		
45	1580	---	---	---	---	---	---	41.6	251	89.2	212	74.6	1.60	2531	*
		2990	---	---	---	---	---	78.7	251	92.8	212			4405	
		---	3305	---	---	---	---	87.0	251	93.3	212			4467	
		---	---	3460	---	---	---	91.1	251	93.4	212			4495	
		---	---	---	3540	---	---	91.9	248	93.6	209			4500	
		---	---	---	---	---	3930	94.2	229	93.9	193			4500	
		---	---	---	---	---	---	---	---	---	---			---	
46	1290	---	---	---	---	---	---	35.5	263	87.7	184	107	2.27	2068	*
		2465	---	---	---	---	---	67.8	263	92.1	184			3540	
		---	2725	---	---	---	---	75.0	263	92.6	184			3589	
		---	---	2860	---	---	---	78.6	262	92.9	184			3611	
		---	---	---	2925	---	---	80.4	263	93.0	184			3621	
		---	---	---	---	---	3250	89.3	262	93.3	184			3667	
		---	---	---	---	---	---	104	263	94.2	184			3771	
47	1090	---	---	---	---	---	---	30.4	266	86.4	160	146	3.09	1741	*
		2095	---	---	---	---	---	58.5	267	91.4	160			2993	
		---	2320	---	---	---	---	64.7	266	91.9	160			3035	
		---	---	2430	---	---	---	67.9	267	92.3	160			3053	
		---	---	---	2485	---	---	69.4	267	92.3	160			3062	
48	935	---	---	---	---	---	---	26.4	270	85.1	141	188	4.01	1498	*
		1815	---	---	---	---	---	51.1	269	90.6	141			2600	
		---	2015	---	---	---	---	56.7	269	91.4	141			2637	
		---	---	2110	---	---	---	59.4	269	91.6	141			2653	
		---	---	---	2160	---	---	60.8	269	91.7	141			2660	
		---	---	---	---	2405	---	67.7	269	92.3	141			2694	
		---	---	---	---	---	---	---	---	---	---			---	
49	815	---	---	---	---	---	---	22.9	268	83.3	125	242	5.19	1306	*
		1600	---	---	---	---	---	44.9	268	89.8	125			2313	
		---	1775	---	---	---	---	49.8	268	90.5	125			2346	
		---	---	1860	---	---	---	52.2	268	90.8	125			2361	
		---	---	---	1905	---	---	53.4	268	90.9	125			2368	
		---	---	---	---	2120	---	59.6	269	91.7	125			2398	
		---	---	---	---	---	2470	69.3	268	92.4	125			2470	
50	745	---	---	---	---	---	---	20.7	265	82.5	114	280	6.05	1193	*
		1465	---	---	---	---	---	40.8	266	89.5	114			2348	
		---	1630	---	---	---	---	45.2	265	90.1	114			2605	
		---	---	1710	---	---	---	47.5	265	90.6	114			2733	
		---	---	---	1750	---	---	48.6	265	90.7	114			2797	
		---	---	---	---	1950	---	54.1	265	91.3	114			3118	
		---	---	---	---	---	---	---	---	---	---			---	
51	645	---	---	---	---	---	---	18.1	268	80.7	102	353	7.71	1035	*
		1285	---	---	---	---	---	36.1	268	88.5	102			1892	
		---	1430	---	---	---	---	40.1	268	89.3	102			1920	
		---	---	1500	---	---	---	42.1	268	89.7	102			1933	
		---	---	---	1535	---	---	43.1	268	89.9	102			1939	
		---	---	---	---	1715	---	48.0	267	90.5	102			1964	
		---	---	---	---	---	2000	56.0	267	91.5	102			2000	

Nota (*) - VENTILAZIONE SOLO L.O. / FAN ONLY SIDE COMMUTATOR

Nota (°) - Regolazione di campo / Field weakening



Potenza eccitazione Excitation power	(w)	1100	Tipo Size MGL 160 M Ventilazione Ventilation IC 06
Cost. tempo eccitaz. Field time constant	(ms)	259	
Massa del motore Mass of the motor	(Kg)	264	
Momento d'inerzia rotore Rotor inertia moment	(Kgm2)	0.28	

Avv.	Velocità nominale n/min a tensione nominale di armatura Rated speed (rev/min) at rated voltage							Potenza Power kW	Coppia vel.nomin. Torque at rated speed Nm	Rendimento Efficiency %	Circuito di armatura Armature circuit			Max giri Max. speed (°)
	220	400	440	460	470	520	600				Corrente Current Amp	Res. 115°C mOhm	Ind. mH	
52	600	---	---	---	---	---	---	16.8	267	79.5	96.0	404	8.72	957
		1200	---	---	---	---	---	33.7	268	87.8	96.0			1919
		---	1335	---	---	---	---	37.4	268	88.5	96.0			2133
		---	---	1400	---	---	---	39.3	268	89.0	96.0			2240
		---	---	---	1435	---	---	40.3	268	89.3	96.0			2294
		---	---	---	---	1600	---	45.0	269	90.1	96.0			2561
		---	---	---	---	---	1870	52.5	268	91.1	96.0			2989
		---	---	---	---	---	---	---	---	---	---			---
53	525	---	---	---	---	---	---	14.9	271	77.8	87.0	497	10.70	841
		1070	---	---	---	---	---	30.2	270	86.8	87.0			1586
		---	1190	---	---	---	---	33.6	270	87.8	87.0			1610
		---	---	1250	---	---	---	35.3	270	88.2	87.0			1620
		---	---	---	1280	---	---	36.1	269	88.3	87.0			1625
		---	---	---	---	1430	---	40.4	270	89.3	87.0			1647
		---	---	---	---	---	---	---	---	---	---			---
54	495	---	---	---	---	---	---	13.8	266	76.5	82.0	552	11.80	791
		1010	---	---	---	---	---	28.3	268	86.3	82.0			1616
		---	1125	---	---	---	---	31.5	267	87.3	82.0			1799
		---	---	1180	---	---	---	33.1	268	87.8	82.0			1891
		---	---	---	1210	---	---	33.9	268	88.0	82.0			1936
55	415	---	---	---	---	---	---	11.7	269	73.9	72.0	714	15.4	667
		870	---	---	---	---	---	24.4	268	84.7	72.0			1389
		---	970	---	---	---	---	27.2	268	85.9	72.0			1549
		---	---	1020	---	---	---	28.6	268	86.4	72.0			1630
		---	---	---	1045	---	---	29.3	268	86.6	72.0			1670
		---	---	---	---	1170	---	32.8	268	87.6	72.0			1870
		---	---	---	---	---	---	---	---	---	---			---
56	355	---	---	---	---	---	---	9.98	269	70.9	64.0	913	19.4	568
		755	---	---	---	---	---	21.2	268	82.8	64.0			1210
		---	845	---	---	---	---	23.8	269	84.5	64.0			1352
		---	---	890	---	---	---	25.0	268	84.9	64.0			1424
		---	---	---	910	---	---	25.6	269	85.1	64.0			1459
		---	---	---	---	1025	---	28.8	268	86.5	64.0			1637
		---	---	---	---	---	1200	33.8	269	88.0	64.0			1922
		---	---	---	---	---	---	---	---	---	---			---
57	310	---	---	---	---	---	---	8.65	267	68.4	57.5	1110	24.3	493
		670	---	---	---	---	---	18.8	268	81.7	57.5			1071
		---	750	---	---	---	---	21.0	267	83.0	57.5			1199
		---	---	790	---	---	---	22.1	267	83.6	57.5			1263
		---	---	---	810	---	---	22.7	268	84.0	57.5			1295
		---	---	---	---	910	---	25.5	268	85.3	57.5			1455
		---	---	---	---	---	---	---	---	---	---			---
58	268	---	---	---	---	---	---	7.48	267	65.4	52.0	1360	29.3	429
		595	---	---	---	---	---	16.6	266	79.8	52.0			953
		---	670	---	---	---	---	18.70	267	81.7	52.0			1070
		---	---	705	---	---	---	19.7	267	82.4	52.0			1128
		---	---	---	725	---	---	20.2	266	82.7	52.0			1157
		---	---	---	---	815	---	22.7	266	83.9	52.0			1303
		---	---	---	---	---	---	---	---	---	---			---

Nota (*) - VENTILAZIONE SOLO L.O. / FAN ONLY SIDE COMMUTATOR

Nota (°) - Regolazione di campo / Field weakening



Potenza eccitazione Excitation power (w)	1100	Tipo	
Cost. tempo eccitaz. Field time constant (ms)	259	Size	MGL 160 M
Massa del motore Mass of the motor (Kg)	264	Ventilazione Ventilation	IC 06
Momento d'inerzia rotore Rotor inertia moment (Kgm2)	0.28		

Avv.	Velocità nominale n/min a tensione nominale di armatura Rated speed (rev/min) at rated voltage							Potenza Power kW	Coppia vel. nomin. Torque at rated speed Nm	Rendimento Efficiency %	Circuito di armatura Armature circuit			Max giri Max. speed (°)
	220	400	440	460	470	520	600				Corrente Current Amp	Res. 115°C mOhm	Ind. mH	
59		535	---	---	---	---	---	15.4	275	78.6	49.0	1560	35.0	859
			605	---	---	---	---	17.3	273	80.2	49.0			966
				635	---	---	---	18.3	275	81.2	49.0			1020
					655	---	---	18.8	274	81.6	49.0			1046
						740	---	21.2	274	83.2	49.0			1180
							870	25.0	274	85.0	49.0			1394
60		490	---	---	---	---	---	14.1	275	77.5	45.5	1790	40.0	781
			550	---	---	---	---	15.9	276	79.4	45.5			880
				580	---	---	---	16.8	277	80.3	45.5			929
					595	---	---	17.2	276	80.4	45.5			954
						675	---	19.4	275	82.0	45.5			1077
61		440	---	---	---	---	---	12.6	274	75.9	41.5	2140	47.7	708
			500	---	---	---	---	14.2	271	77.8	41.5			799
				530	---	---	---	15.0	270	78.6	41.5			845
					545	---	---	15.4	270	79.0	41.5			868
						615	---	17.4	270	80.6	41.5			983
							730	20.7	271	83.1	41.5			1166
62		405	---	---	---	---	---	11.2	264	73.7	38.0	2530	55.5	646
			455	---	---	---	---	12.7	267	76.0	38.0			731
				485	---	---	---	13.5	266	77.2	38.0			774
					495	---	---	13.8	266	77.3	38.0			795
						565	---	15.7	265	79.5	38.0			902
							670	18.7	267	82.0	38.0			1073

Nota (*) - VENTILAZIONE SOLO L.O. / FAN ONLY SIDE COMMUTATOR

Nota (°) - Regolazione di campo / Field weakening



Potenza eccitazione Excitation power	(w)	1200	Tipo		
Cost. tempo eccitaz. Field time constant	(ms)	289	Size	MGL	160 L
Massa del motore Mass of the motor	(Kg)	302	Ventilazione Ventilation		IC 06
Momento d'inerzia rotore Rotor inertia moment	(Kgm2)	0.34			

Avv.	Velocità nominale n/min a tensione nominale di armatura Rated speed (rev/min) at rated voltage							Potenza Power kW	Coppia vel.nomin. Torque at rated speed Nm	Rendimento Efficiency %	Circuito di armatura Armature circuit			Max giri Max. speed (°)		
	220	400	440	460	470	520	600				Corrente Current Amp	Res. 115°C mOhm	Ind. mH			
45	1275	---	---	---	---	---	---	41.4	310	88.8	212	84.9	1.95	2040	*	
		2425	---	---	---	---	---	78.6	310	92.7	212					3761
		2680	---	---	---	---	---	86.9	310	93.2	212					3818
			2805	---	---	---	---	91.0	310	93.3	212					3843
		2870	---	---	---	---	---	93.1	310	93.4	212					3854
			3190	---	---	---	---	103	308	93.4	212					3907
46	1040	---	---	---	---	---	---	35.2	323	87.0	184	122	2.77	1662		
		1995	---	---	---	---	---	67.6	324	91.8	184					3023
		2210	---	---	---	---	---	74.8	323	92.4	184					3067
			2315	---	---	---	---	78.4	323	92.6	184					3087
		2365	---	---	---	---	---	80.2	324	92.7	184					3096
			2635	---	---	---	---	89.2	323	93.2	184					3138
3060	---	---	---	---	---	104	325	94.2	184	3191						
47	870	---	---	---	---	---	---	30.0	329	85.2	160	166	3.78	1395		
		1690	---	---	---	---	---	58.2	329	90.9	160					2555
		1875	---	---	---	---	---	64.5	329	91.6	160					2593
			1965	---	---	---	---	67.6	329	91.8	160					2610
		2010	---	---	---	---	69.2	329	92.0	160	2618					
48	750	---	---	---	---	---	---	25.9	330	83.5	141	214	4.90	1198		
		1465	---	---	---	---	---	50.8	331	90.1	141					2219
		1625	---	---	---	---	---	56.4	331	90.9	141					2253
			1705	---	---	---	---	59.1	331	91.1	141					2267
		1745	---	---	---	---	---	60.5	331	91.3	141					2274
			1945	---	---	---	---	67.4	331	91.9	141					2305
49	650	---	---	---	---	---	---	22.5	331	81.8	125	275	6.33	1040		
		1290	---	---	---	---	---	44.5	329	89.0	125					1973
		1430	---	---	---	---	---	49.4	330	89.8	125					2004
			1500	---	---	---	---	51.9	330	90.3	125					2017
		1535	---	---	---	---	---	53.1	330	90.4	125					2024
			1715	---	---	---	---	59.2	330	91.1	125					2052
1995	---	---	---	---	---	69.1	331	92.1	125	2087						
50	595	---	---	---	---	---	---	20.3	326	80.9	114	317	7.39	950		
		1180	---	---	---	---	---	40.4	327	88.6	114					1891
		1310	---	---	---	---	---	44.9	327	89.5	114					2100
			1380	---	---	---	---	47.1	326	89.8	114					2204
		1410	---	---	---	---	---	48.2	326	90.0	114					2256
			1575	---	---	---	---	53.8	326	90.8	114					2518
51	515	---	---	---	---	---	---	17.7	328	78.9	102	401	9.41	821		
		1035	---	---	---	---	---	35.7	329	87.5	102					1614
		1150	---	---	---	---	---	39.7	330	88.5	102					1640
			1210	---	---	---	---	41.7	329	88.9	102					1651
		1240	---	---	---	---	---	42.7	329	89.1	102					1656
			1385	---	---	---	---	47.7	329	89.9	102					1680
1615	---	---	---	---	---	55.7	329	91.0	102	1710						

Nota (*) - VENTILAZIONE SOLO L.O. / FAN ONLY SIDE COMMUTATOR

Nota (°) - Regolazione di campo / Field weakening



Potenza eccitazione Excitation power	(w)	1200	Tipo Size MGL 160 L Ventilazione Ventilation IC 06
Cost. tempo eccitaz. Field time constant	(ms)	289	
Massa del motore Mass of the motor	(Kg)	302	
Momento d'inerzia rotore Rotor inertia moment	(Kgm2)	0.34	

Avv.	Velocità nominale n/min a tensione nominale di armatura Rated speed (rev/min) at rated voltage							Potenza Power kW	Coppia vel.nomin. Torque at rated speed Nm	Rendimento Efficiency %	Circuito di armatura Armature circuit			Max giri Max. speed (°)
	220	400	440	460	470	520	600				Corrente Current Amp	Res. 115°C mOhm	Ind. mH	
52	475	---	---	---	---	---	---	16.4	330	77.7	96.0	459	10.6	757
		965	---	---	---	---	---	33.3	330	86.7	96.0			1541
		1070	---	---	---	---	---	37.1	331	87.8	96.0			1715
			1125	---	---	---	---	39.0	331	88.3	96.0			1802
		1155	---	---	---	---	---	39.9	330	88.4	96.0			1846
			1290	---	---	---	---	44.6	330	89.3	96.0			2064
		1510	---	---	---	---	---	52.1	330	90.5	96.0			2412
		53	415	---	---	---	---	---	---	14.4	331			75.2
855	---			---	---	---	---	29.8	333	85.6	87.0	1351		
955	---			---	---	---	---	33.2	332	86.7	87.0	1374		
	1005			---	---	---	---	34.9	332	87.2	87.0	1384		
1025	---			---	---	---	---	35.7	333	87.3	87.0	1388		
	1150			---	---	---	---	40.0	332	88.4	87.0	1408		
54	390	---	---	---	---	---	---	13.4	328	74.3	82.0	626	14.4	622
		810	---	---	---	---	---	27.9	329	85.1	82.0			1294
		900	---	---	---	---	---	31.1	330	86.2	82.0			1443
			950	---	---	---	---	32.7	329	86.7	82.0			1518
		970	---	---	---	---	33.5	330	86.9	82.0	1555			
55	325	---	---	---	---	---	---	11.3	332	71.3	72.0	810	18.8	521
		695	---	---	---	---	---	24.0	330	83.3	72.0			1109
		775	---	---	---	---	---	26.8	330	84.6	72.0			1240
			815	---	---	---	---	28.2	330	85.1	72.0			1305
		835	---	---	---	---	---	28.9	331	85.4	72.0			1338
			940	---	---	---	---	32.5	330	86.8	72.0			1501
		56	275	---	---	---	---	---	---	9.52	331			67.6
600	---			---	---	---	---	20.8	331	81.3	64.0	963		
675	---			---	---	---	---	23.3	330	82.7	64.0	1079		
	710			---	---	---	---	24.6	331	83.6	64.0	1137		
730	---			---	---	---	---	25.2	330	83.8	64.0	1166		
	820			---	---	---	---	28.3	330	85.0	64.0	1311		
965	---			---	---	---	---	33.4	331	87.0	64.0	1543		
	---			---	---	---	---	---	---	---	---	---	---	
57	237	---	---	---	---	---	---	8.19	330	64.7	57.5	1260	29.7	379
		530	---	---	---	---	---	18.4	332	80.0	57.5			850
		595	---	---	---	---	---	20.6	331	81.4	57.5			954
			630	---	---	---	---	21.7	329	82.0	57.5			1007
		645	---	---	---	---	---	22.3	330	82.5	57.5			1033
			725	---	---	---	---	25.1	331	83.9	57.5			1163
		---	---	---	---	---	---	---	---	---	---			---
58	470	---	---	---	---	---	---	16.2	329	77.9	52.0	1550	35.8	754
		530	---	---	---	---	---	18.2	328	79.5	52.0			849
		560	---	---	---	---	---	19.3	329	80.7	52.0			897
			575	---	---	---	---	19.8	329	81.0	52.0			920
		650	---	---	---	---	---	22.3	328	82.5	52.0			1039
			---	---	---	---	---	---	---	---	---			---

Nota (*) - VENTILAZIONE SOLO L.O. / FAN ONLY SIDE COMMUTATOR

Nota (°) - Regolazione di campo / Field weakening



Potenza eccitazione Excitation power (w)	1200	Tipo	
Cost. tempo eccitaz. Field time constant (ms)	289	Size	MGL 160 L
Massa del motore Mass of the motor (Kg)	302	Ventilazione Ventilation	IC 06
Momento d'inerzia rotore Rotor inertia moment (Kgm2)	0.34		

Avv.	Velocità nominale n/min a tensione nominale di armatura Rated speed (rev/min) at rated voltage							Potenza Power kW	Coppia vel. nomin. Torque at rated speed Nm	Rendimento Efficiency %	Circuito di armatura Armature circuit			Max giri Max. speed (°)
	220	400	440	460	470	520	600				Corrente Current Amp	Res. 115°C mOhm	Ind. mH	
59		425	---	---	---	---	---	15.0	337	76.5	49.0	1770	42.7	678
			480	---	---	---	---	16.9	336	78.4	49.0			765
				505	---	---	---	17.9	339	79.4	49.0			809
					520	---	---	18.3	336	79.5	49.0			830
						585	---	20.8	340	81.6	49.0			939
							695	24.6	338	83.7	49.0			1113
60		385	---	---	---	---	---	13.7	340	75.3	45.5	2030	48.9	614
			435	---	---	---	---	15.4	338	76.9	45.5			695
				460	---	---	---	16.3	338	77.9	45.5			735
					470	---	---	16.8	341	78.6	45.5			755
						535	---	19.0	339	80.3	45.5			856
61		345	---	---	---	---	---	12.1	335	72.9	41.5	2430	58.2	554
			395	---	---	---	---	13.7	331	75.0	41.5			629
				415	---	---	---	14.5	334	76.0	41.5			666
					430	---	---	15.0	333	76.9	41.5			685
						485	---	17.0	335	78.8	41.5			778
							580	20.2	333	81.1	41.5			928
62		315	---	---	---	---	---	10.8	327	71.1	38.0	2870	67.7	504
			360	---	---	---	---	12.3	326	73.6	38.0			573
				380	---	---	---	13.0	327	74.4	38.0			608
					390	---	---	13.4	328	75.0	38.0			625
						445	---	15.3	328	77.4	38.0			713
							530	18.2	328	79.8	38.0			852

Nota (*) - VENTILAZIONE SOLO L.O. / FAN ONLY SIDE COMMUTATOR

Nota (°) - Regolazione di campo / Field weakening



Potenza eccitazione Excitation power	(w)	1300	Tipo Size MGL 160 P Ventilazione Ventilation IC 06
Cost. tempo eccitaz. Field time constant	(ms)	310	
Massa del motore Mass of the motor	(Kg)	320	
Momento d'inerzia rotore Rotor inertia moment	(Kgm2)	0.37	

Avv.	Velocità nominale n/min a tensione nominale di armatura Rated speed (rev/min) at rated voltage							Potenza Power kW	Coppia vel.nomin. Torque at rated speed Nm	Rendimento Efficiency %	Circuito di armatura Armature circuit			Max giri Max. speed (°)	
	220	400	440	460	470	520	600				Corrente Current Amp	Res. 115°C mOhm	Ind. mH		
45	1140	---	---	---	---	---	---	41.2	345	88.3	212	91.1	2.16	1824	*
		2175	---	---	---	---	---	78.5	345	92.6	212			3457	
		2405	---	---	---	---	---	86.8	345	93.1	212			3511	
			2515	---	---	---	---	90.9	345	93.2	212			3534	
		2575	---	---	---	---	---	93.0	345	93.3	212			3545	
			2860	---	---	---	---	103	344	93.4	212			3595	
		46	925	---	---	---	---	---	---	34.9	360			86.2	
1790	---			---	---	---	---	67.4	360	91.6	184	2778			
1980	---			---	---	---	---	74.6	360	92.1	184	2821			
	2075			---	---	---	---	78.2	360	92.4	184	2840			
2125	---			---	---	---	---	80.0	360	92.5	184	2848			
	2360			---	---	---	---	89.0	360	93.0	184	2888			
2745	---			---	---	---	---	104	362	94.2	184	2938			
47	775	---	---	---	---	---	---	29.7	366	84.4	160	178	4.19	1243	*
		1515	---	---	---	---	---	58.0	366	90.6	160			2349	
		1680	---	---	---	---	---	64.3	366	91.3	160			2385	
			1760	---	---	---	---	67.4	366	91.6	160			2401	
		1800	---	---	---	---	69.0	366	91.8	160	2408				
48	665	---	---	---	---	---	---	25.7	369	82.8	141	229	5.43	1065	*
		1310	---	---	---	---	---	50.6	369	89.7	141			2039	
		1455	---	---	---	---	---	56.1	368	90.4	141			2071	
			1525	---	---	---	---	58.9	369	90.8	141			2085	
		1565	---	---	---	---	---	60.3	368	91.0	141			2092	
			1740	---	---	---	---	67.2	369	91.7	141			2121	
		49	575	---	---	---	---	---	---	22.2	369			80.7	
1150	---			---	---	---	---	44.3	368	88.6	125	1813			
1280	---			---	---	---	---	49.2	367	89.5	125	1842			
	1345			---	---	---	---	51.7	367	89.9	125	1855			
1375	---			---	---	---	---	52.9	367	90.0	125	1861			
	1535			---	---	---	---	59.0	367	90.8	125	1887			
1790	---			---	---	---	---	68.8	367	91.7	125	1921			
50	525	---	---	---	---	---	---	20.0	364	79.7	114	340	8.19	843	*
		1055	---	---	---	---	---	40.2	364	88.2	114			1689	
		1175	---	---	---	---	---	44.7	363	89.1	114			1878	
			1230	---	---	---	---	46.9	364	89.4	114			1972	
		1260	---	---	---	---	---	48.0	364	89.6	114			2019	
			1410	---	---	---	---	53.6	363	90.4	114			2254	
		51	455	---	---	---	---	---	---	17.4	365			77.5	
925	---			---	---	---	---	35.5	367	87.0	102	1478			
1030	---			---	---	---	---	39.5	366	88.0	102	1507			
	1080			---	---	---	---	41.5	367	88.4	102	1518			
1105	---			---	---	---	---	42.5	367	88.7	102	1523			
	1235			---	---	---	---	47.5	367	89.6	102	1545			
1445	---			---	---	---	---	55.5	367	90.7	102	1573			

Nota (*) - VENTILAZIONE SOLO L.O. / FAN ONLY SIDE COMMUTATOR

Nota (°) - Regolazione di campo / Field weakening



Potenza eccitazione Excitation power	(w)	1300	Tipo Size MGL 160 P Ventilazione Ventilation IC 06
Cost. tempo eccitaz. Field time constant	(ms)	310	
Massa del motore Mass of the motor	(Kg)	320	
Momento d'inerzia rotore Rotor inertia moment	(Kgm2)	0.37	

Avv.	Velocità nominale n/min a tensione nominale di armatura Rated speed (rev/min) at rated voltage							Potenza Power kW	Coppia vel.nomin. Torque at rated speed Nm	Rendimento Efficiency %	Circuito di armatura Armature circuit			Max giri Max. speed (°)	
	220	400	440	460	470	520	600				Corrente Current Amp	Res. 115°C mOhm	Ind. mH		
52	420	---	---	---	---	---	---	16.1	366	76.2	96.0	492	11.8	669	
		860	---	---	---	---	---	33.1	368	86.2	96.0				1375
		955	---	---	---	---	---	36.8	368	87.1	96.0				1531
		1005	---	---	---	---	---	38.7	368	87.6	96.0				1610
		1030	---	---	---	---	---	39.7	368	88.0	96.0				1649
		1155	---	---	---	---	---	44.4	367	88.9	96.0				1845
		1350	---	---	---	---	---	51.9	367	90.1	96.0				2159
53	365	---	---	---	---	---	---	14.1	369	73.7	87.0	605	14.5	584	
		760	---	---	---	---	---	29.5	371	84.8	87.0				1220
		850	---	---	---	---	---	32.9	370	85.9	87.0				1262
		895	---	---	---	---	---	34.6	369	86.5	87.0				1271
		915	---	---	---	---	---	35.5	371	86.8	87.0				1276
		1025	---	---	---	---	---	39.8	371	88.0	87.0				1295
54	340	---	---	---	---	---	---	13.1	368	72.6	82.0	671	16.0	547	
		720	---	---	---	---	---	27.6	366	84.1	82.0				1152
		805	---	---	---	---	---	30.8	365	85.4	82.0				1287
		845	---	---	---	---	---	32.4	366	85.9	82.0				1354
		865	---	---	---	---	---	33.3	368	86.4	82.0				1387
55	286	---	---	---	---	---	---	11.0	367	69.4	72.0	868	20.9	457	
		615	---	---	---	---	---	23.7	368	82.3	72.0				986
		690	---	---	---	---	---	26.6	368	84.0	72.0				1104
		725	---	---	---	---	---	28.0	369	84.5	72.0				1163
		745	---	---	---	---	---	28.7	368	84.8	72.0				1192
		835	---	---	---	---	---	32.2	368	86.0	72.0				1339
56	240	---	---	---	---	---	---	9.23	367	65.6	64.0	1110	26.3	384	
		535	---	---	---	---	---	20.5	366	80.1	64.0				854
		600	---	---	---	---	---	23.1	368	82.0	64.0				959
		630	---	---	---	---	---	24.3	368	82.5	64.0				1011
		650	---	---	---	---	---	24.9	366	82.8	64.0				1037
		730	---	---	---	---	---	28.1	368	84.4	64.0				1168
		860	---	---	---	---	---	33.1	368	86.2	64.0				1377
57	470	---	---	---	---	---	---	18.1	368	78.7	57.5	1350	32.9	753	
		530	---	---	---	---	---	20.3	366	80.2	57.5				847
		560	---	---	---	---	---	21.5	367	81.3	57.5				894
		575	---	---	---	---	---	22.0	365	81.4	57.5				917
		645	---	---	---	---	---	24.9	369	83.3	57.5				1035
		---	---	---	---	---	---	---	---	---	---				---
58	415	---	---	---	---	---	---	15.9	366	76.4	52.0	1660	39.6	666	
		470	---	---	---	---	---	18.0	366	78.7	52.0				752
		495	---	---	---	---	---	19.0	367	79.4	52.0				795
		510	---	---	---	---	---	19.5	365	79.8	52.0				816
		575	---	---	---	---	---	22.1	367	81.7	52.0				923
		---	---	---	---	---	---	---	---	---	---				---

Nota (*) - VENTILAZIONE SOLO L.O. / FAN ONLY SIDE COMMUTATOR

Nota (°) - Regolazione di campo / Field weakening



Potenza eccitazione Excitation power (w) 1300	Tipo
Cost. tempo eccitaz. Field time constant (ms) 310	Size MGL 160 P
Massa del motore Mass of the motor (Kg) 320	Ventilazione Ventilation IC 06
Momento d'inerzia rotore Rotor inertia moment (Kgm ²) 0.37	

Avv.	Velocità nominale n/min a tensione nominale di armatura Rated speed (rev/min) at rated voltage							Potenza Power kW	Coppia vel. nomin. Torque at rated speed Nm	Rendimento Efficiency %	Circuito di armatura Armature circuit			Max giri Max. speed (°)
	220	400	440	460	470	520	600				Corrente Current Amp	Res. 115°C mOhm	Ind. mH	
59		375	---	---	---	---	---	14.7	374	75.0	49.0	1890	47.3	598
			425	---	---	---	---	16.6	373	77.0	49.0			676
				445	---	---	---	17.6	378	78.1	49.0			716
					460	---	---	18.1	376	78.6	49.0			735
						520	---	20.5	377	80.5	49.0			833
							620	24.3	374	82.7	49.0			990
60		340	---	---	---	---	---	13.4	376	73.6	45.5	2170	54.2	541
			385	---	---	---	---	15.2	377	75.9	45.5			613
				405	---	---	---	16.1	380	76.9	45.5			650
					415	---	---	16.5	380	77.2	45.5			668
						475	---	18.8	378	79.5	45.5			758
61		305	---	---	---	---	---	11.8	369	71.1	41.5	2610	64.5	487
			345	---	---	---	---	13.5	374	73.9	41.5			554
				365	---	---	---	14.3	374	74.9	41.5			588
					380	---	---	14.7	369	75.4	41.5			604
						430	---	16.7	371	77.4	41.5			688
							515	20.0	371	80.3	41.5			823
62		276	---	---	---	---	---	10.5	363	69.1	38.0	3070	75.1	441
			315	---	---	---	---	12.0	364	71.8	38.0			504
				335	---	---	---	12.8	365	73.2	38.0			535
					345	---	---	13.1	363	73.3	38.0			551
						395	---	15.0	363	75.9	38.0			629
							470	18.0	366	78.9	38.0			755

Nota (*) - VENTILAZIONE SOLO L.O. / FAN ONLY SIDE COMMUTATOR

Nota (°) - Regolazione di campo / Field weakening



Potenza eccitazione		
Excitation power	(w)	1400
Cost. tempo eccitaz.		
Field time constant	(ms)	333
Massa del motore		
Mass of the motor	(Kg)	350
Momento d'inerzia rotore		
Rotor inertia moment	(Kgm2)	0.41

Tipo		
Size	MGL	160 X
Ventilazione		
Ventilation		IC 06

Avv.	Velocità nominale n/min a tensione nominale di armatura Rated speed (rev/min) at rated voltage							Potenza Power kW	Coppia vel.nomin. Torque at rated speed Nm	Rendimento Efficiency %	Circuito di armatura Armature circuit			Max giri Max. speed (°)		
	220	400	440	460	470	520	600				Corrente Current Amp	Res. 115°C mOhm	Ind. mH			
45	1025	---	---	---	---	---	---	40.7	379	87.3	212	96.0	2.38	1632	*	
		1960	---	---	---	---	---	77.7	379	91.6	212					3094
		---	2165	---	---	---	---	86.0	379	92.2	212					4843
		---	---	2270	---	---	---	90.1	379	92.4	212					3163
		---	---	---	2320	---	---	92.1	379	92.4	212					3173
		---	---	---	---	---	2580	102	378	92.5	212					3218
		---	---	---	---	---	---	---	---	---	---					---
46	830	---	---	---	---	---	---	34.3	395	84.7	184	138	3.38	1327	*	
		1610	---	---	---	---	---	66.4	394	90.2	184					2486
		---	1785	---	---	---	---	73.6	394	90.9	184					2525
		---	---	1870	---	---	---	77.1	394	91.1	184					2542
		---	---	---	1910	---	---	78.9	395	91.2	184					2549
		---	---	---	---	2130	---	87.8	394	91.8	184					2585
		---	---	---	---	---	2475	102	394	92.4	184					2630
47	695	---	---	---	---	---	---	29.2	401	83.0	160	187	4.61	1112	*	
		1365	---	---	---	---	---	57.1	400	89.2	160					2102
		---	1510	---	---	---	---	63.3	400	89.9	160					2135
		---	---	1585	---	---	---	66.4	400	90.2	160					2149
		---	---	---	1625	---	---	68.0	400	90.4	160					2155
48	610	---	---	---	---	---	---	25.2	395	81.2	141	237	5.97	953	*	
		1210	---	---	---	---	---	49.8	393	88.3	141					1825
		---	1345	---	---	---	---	55.3	393	89.1	141					1854
		---	---	1410	---	---	---	58.0	393	89.4	141					1866
		---	---	---	1445	---	---	59.4	393	89.6	141					1872
		---	---	---	---	1610	---	66.2	393	90.3	141					1898
49	515	---	---	---	---	---	---	21.8	404	79.3	125	310	7.72	826	*	
		1035	---	---	---	---	---	43.8	404	87.6	125					1623
		---	1150	---	---	---	---	48.7	404	88.5	125					1649
		---	---	1205	---	---	---	51.1	405	88.9	125					1660
		---	---	---	1235	---	---	52.3	404	89.0	125					1666
		---	---	---	---	1380	---	58.4	404	89.8	125					1689
		---	---	---	---	---	1610	68.2	405	90.9	125					1719
50	470	---	---	---	---	---	---	19.7	400	78.5	114	357	9.01	754	*	
		950	---	---	---	---	---	39.8	400	87.3	114					1512
		---	1055	---	---	---	---	44.2	400	88.1	114					1681
		---	---	1110	---	---	---	46.5	400	88.7	114					1765
		---	---	---	1135	---	---	47.6	401	88.8	114					1807
		---	---	---	---	1270	---	53.2	400	89.7	114					2017
51	405	---	---	---	---	---	---	17.2	406	76.6	102	449	11.4	651	*	
		830	---	---	---	---	---	35.1	404	86.0	102					1323
		---	925	---	---	---	---	39.1	404	87.1	102					1349
		---	---	970	---	---	---	41.1	405	87.6	102					1359
		---	---	---	995	---	---	42.1	404	87.8	102					1363
		---	---	---	---	1115	---	47.1	403	88.8	102					1383
		---	---	---	---	---	1300	55.1	405	90.0	102					1408
		---	---	---	---	---	---	---	---	---	---					---

Nota (*) - VENTILAZIONE SOLO L.O. / FAN ONLY SIDE COMMUTATOR

Nota (°) - Regolazione di campo / Field weakening



Potenza eccitazione Excitation power	(w)	1400	Tipo Size MGL 160 X Ventilazione Ventilation IC 06
Cost. tempo eccitaz. Field time constant	(ms)	333	
Massa del motore Mass of the motor	(Kg)	350	
Momento d'inerzia rotore Rotor inertia moment	(Kgm2)	0.41	

Avv.	Velocità nominale n/min a tensione nominale di armatura Rated speed (rev/min) at rated voltage							Potenza Power kW	Coppia vel.nomin. Torque at rated speed Nm	Rendimento Efficiency %	Circuito di armatura Armature circuit			Max giri Max. speed (°)				
	220	400	440	460	470	520	600				Corrente Current Amp	Res. 115°C mOhm	Ind. mH					
52	370	---	---	---	---	---	---	15.7	405	74.3	96.0	516	13.0	599				
		770	---	---	---	---	---	32.4	402	84.4	96.0							
		860	---	---	---	---	---	36.1	401	85.5	96.0							
		905	---	---	---	---	---	38.0	401	86.1	96.0							
		925	---	---	---	---	---	38.9	402	86.2	96.0							
		1035	---	---	---	---	---	43.6	402	87.3	96.0							
		1215	---	---	---	---	---	51.0	401	88.5	96.0							
		---	---	---	---	---	---	---	---	---	---				---	---	---	1932
53	325	---	---	---	---	---	---	13.8	406	72.1	87.0	637	16.0	523				
		685	---	---	---	---	---	29.2	407	83.9	87.0							
		765	---	---	---	---	---	32.6	407	85.2	87.0							
		805	---	---	---	---	---	34.3	407	85.7	87.0							
		825	---	---	---	---	---	35.1	406	85.8	87.0							
		925	---	---	---	---	---	39.4	407	87.1	87.0							
		---	---	---	---	---	---	---	---	---	---				---	---	---	1160
54	305	---	---	---	---	---	---	12.8	401	71.0	82.0	702	17.6	490				
		645	---	---	---	---	---	27.2	403	82.9	82.0							
		720	---	---	---	---	---	30.4	403	84.3	82.0							
		760	---	---	---	---	---	32.0	402	84.8	82.0							
		780	---	---	---	---	---	32.8	402	85.1	82.0							
55	255	---	---	---	---	---	---	10.8	404	68.2	72.0	907	23.0	409				
		550	---	---	---	---	---	23.5	408	81.6	72.0							
		620	---	---	---	---	---	26.4	407	83.3	72.0							
		650	---	---	---	---	---	27.8	408	83.9	72.0							
		670	---	---	---	---	---	28.5	406	84.2	72.0							
		750	---	---	---	---	---	32.0	407	85.5	72.0							
		---	---	---	---	---	---	---	---	---	---				---	---	---	1198
56	475	---	---	---	---	---	---	20.2	406	78.9	64.0	1166	28.9	764				
		535	---	---	---	---	---	22.7	405	80.6	64.0							
		565	---	---	---	---	---	24.0	406	81.5	64.0							
		580	---	---	---	---	---	24.6	405	81.8	64.0							
		655	---	---	---	---	---	27.7	404	83.2	64.0							
		770	---	---	---	---	---	32.7	406	85.2	64.0							
		---	---	---	---	---	---	---	---	---	---				---	---	---	1232
		---	---	---	---	---	---	---	---	---	---				---	---	---	---
57	420	---	---	---	---	---	---	17.9	407	77.8	57.5	1412	36.2	674				
		475	---	---	---	---	---	20.2	406	79.8	57.5							
		500	---	---	---	---	---	21.3	407	80.5	57.5							
		515	---	---	---	---	---	21.9	406	81.0	57.5							
		580	---	---	---	---	---	24.7	407	82.6	57.5							
		---	---	---	---	---	---	---	---	---	---				---	---	---	926
58	370	---	---	---	---	---	---	15.7	405	75.5	52.0	1727	43.6	596				
		420	---	---	---	---	---	17.8	405	77.8	52.0							
		445	---	---	---	---	---	18.8	403	78.6	52.0							
		455	---	---	---	---	---	19.3	405	79.0	52.0							
		515	---	---	---	---	---	21.9	406	81.0	52.0							
		---	---	---	---	---	---	---	---	---	---				---	---	---	826

Nota (*) - VENTILAZIONE SOLO L.O. / FAN ONLY SIDE COMMUTATOR

Nota (°) - Regolazione di campo / Field weakening



Potenza eccitazione Excitation power (w)	1400	Tipo	
Cost. tempo eccitaz. Field time constant (ms)	333	Size	MGL 160 X
Massa del motore Mass of the motor (Kg)	350	Ventilazione Ventilation	IC 06
Momento d'inerzia rotore Rotor inertia moment (Kgm2)	0.41		

Avv.	Velocità nominale n/min a tensione nominale di armatura Rated speed (rev/min) at rated voltage							Potenza Power kW	Coppia vel.nomin. Torque at rated speed Nm	Rendimento Efficiency %	Circuito di armatura Armature circuit			Max giri Max. speed (°)
	220	400	440	460	470	520	600				Corrente Current Amp	Res. 115°C mOhm	Ind. mH	
59		335	---	---	---	---	---	14.5	413	74.0	49.0	1978	52.0	535
			375	---	---	---	---	16.4	418	76.1	49.0			605
				400	---	---	---	17.4	415	77.2	49.0			68
					410	---	---	17.9	417	77.7	49.0			658
						465	---	20.3	417	79.7	49.0			746
							555	24.1	415	82.0	49.0			886
60		295	---	---	---	---	---	13.0	421	71.4	45.5	2373	59.6	484
			335	---	---	---	---	14.8	422	73.9	45.5			549
				355	---	---	---	15.7	422	75.0	45.5			582
					370	---	---	16.1	416	75.3	45.5			598
						420	---	18.3	416	77.3	45.5			678
61		265	---	---	---	---	---	11.4	411	68.7	41.5	2827	71.0	436
			305	---	---	---	---	13.1	410	71.7	41.5			496
				325	---	---	---	13.9	408	72.8	41.5			526
					330	---	---	14.3	414	73.3	41.5			541
						380	---	16.3	410	75.5	41.5			616
							455	19.6	411	78.7	41.5			737
62		240	---	---	---	---	---	10.1	402	66.4	38.0	3334	82.6	395
			275	---	---	---	---	11.6	403	69.4	38.0			451
				295	---	---	---	12.4	401	70.9	38.0			479
					300	---	---	12.7	404	71.1	38.0			493
						345	---	14.6	404	73.9	38.0			563
							415	17.6	405	77.2	38.0			676

Nota (*) - VENTILAZIONE SOLO L.O. / FAN ONLY SIDE COMMUTATOR

Nota (°) - Regolazione di campo / Field weakening



Potenza eccitazione Excitation power	(w)	1500	Tipo Size	MGL	160 X2
Cost. tempo eccitaz. Field time constant	(ms)	357	Ventilazione Ventilation		IC 06
Massa del motore Mass of the motor	(Kg)	403			
Momento d'inerzia rotore Rotor inertia moment	(Kgm2)	0.47			

Avv.	Velocità nominale n/min a tensione nominale di armatura Rated speed (rev/min) at rated voltage							Potenza Power kW	Coppia vel.nomin. Torque at rated speed Nm	Rendimento Efficiency %	Circuito di armatura Armature circuit			Max giri Max. speed (°)		
	220	400	440	460	470	520	600				Corrente Current Amp	Res. 115°C mOhm	Ind. mH			
45	880	---	---	---	---	---	---	40.2	436	86.2	212	106	2.74	1461	*	
		1690	---	---	---	---	---	77.2	436	91.0	212					2769
		---	1870	---	---	---	---	85.5	437	91.7	212					4334
		---	---	1960	---	---	---	89.6	437	91.9	212					2831
		---	---	---	2005	---	---	91.7	437	92.0	212					2840
		---	---	---	---	---	2230	102	437	92.5	212					2880
		---	---	---	---	---	---	---	---	---	---					---
46	710	---	---	---	---	---	---	33.8	455	83.5	184	153	3.89	1188	*	
		1385	---	---	---	---	---	65.9	454	89.5	184					2225
		---	1535	---	---	---	---	73.1	455	90.3	184					2260
		---	---	1615	---	---	---	76.6	453	90.5	184					2275
		---	---	---	1650	---	---	78.4	454	90.7	184					2281
		---	---	---	---	---	1835	87.3	454	91.2	184					2313
		---	---	---	---	---	1140	102	854	92.4	184					2353
47	595	---	---	---	---	---	---	28.7	461	81.5	160	207	5.30	996	*	
		1175	---	---	---	---	---	56.6	460	88.4	160					1882
		---	1300	---	---	---	---	62.8	461	89.2	160					1910
		---	---	1365	---	---	---	65.9	461	89.5	160					1923
		---	---	---	1400	---	---	67.5	460	89.8	160					1929
		---	---	---	---	---	---	---	---	---	---					---
48	520	---	---	---	---	---	---	24.7	454	79.6	141	263	6.87	853	*	
		1040	---	---	---	---	---	49.3	453	87.4	141					1633
		---	1155	---	---	---	---	54.8	453	88.3	141					1659
		---	---	1215	---	---	---	57.5	452	88.7	141					1670
		---	---	---	1240	---	---	58.9	454	88.9	141					1676
		---	---	---	---	---	1385	65.7	453	89.6	141					1699
		---	---	---	---	---	---	---	---	---	---					---
49	435	---	---	---	---	---	---	21.3	468	77.5	125	344	8.88	739	*	
		890	---	---	---	---	---	43.3	465	86.6	125					1452
		---	990	---	---	---	---	48.1	464	87.5	125					1475
		---	---	1040	---	---	---	50.6	465	88.0	125					1486
		---	---	---	1065	---	---	51.8	465	88.2	125					1491
		---	---	---	---	1190	---	57.9	465	89.1	125					1512
		---	---	---	---	---	1390	67.6	464	90.1	125					1539
50	400	---	---	---	---	---	---	19.2	458	76.6	114	395	10.36	675	*	
		815	---	---	---	---	---	39.3	461	86.2	114					1353
		---	905	---	---	---	---	43.8	462	87.3	114					1504
		---	---	950	---	---	---	46.0	462	87.7	114					1580
		---	---	---	975	---	---	47.1	461	87.9	114					1617
		---	---	---	---	1090	---	52.7	462	88.9	114					1806
		---	---	---	---	---	---	---	---	---	---					---
51	340	---	---	---	---	---	---	16.7	469	74.4	102	498	13.11	582	*	
		710	---	---	---	---	---	34.6	465	84.8	102					1184
		---	790	---	---	---	---	38.6	467	86.0	102					1207
		---	---	835	---	---	---	40.6	464	86.5	102					1216
		---	---	---	855	---	---	41.6	465	86.8	102					1220
		---	---	---	---	955	---	46.6	466	87.9	102					1238
		---	---	---	---	---	1120	54.6	466	89.2	102					1260
		---	---	---	---	---	---	---	---	---	---					---

Nota (*) - VENTILAZIONE SOLO L.O. / FAN ONLY SIDE COMMUTATOR

Nota (°) - Regolazione di campo / Field weakening



Potenza eccitazione Excitation power	(w)	1500	Tipo Size MGL 160 X2 Ventilazione Ventilation IC 06
Cost. tempo eccitaz. Field time constant	(ms)	357	
Massa del motore Mass of the motor	(Kg)	403	
Momento d'inerzia rotore Rotor inertia moment	(Kgm2)	0.47	

Avv.	Velocità nominale n/min a tensione nominale di armatura Rated speed (rev/min) at rated voltage							Potenza Power kW	Coppia vel.nomin. Torque at rated speed Nm	Rendimento Efficiency %	Circuito di armatura Armature circuit			Max giri Max. speed (°)					
	220	400	440	460	470	520	600				Corrente Current Amp	Res. 115°C mOhm	Ind. mH						
52	315	---	---	---	---	---	---	15.2	461	72.0	96.0	572	15.0	536					
		660	---	---	---	---	---	31.9	462	83.1	96.0								
		735	---	---	---	---	---	---	35.6	463	84.3				96.0				
			775	---	---	---	---	---	37.5	462	84.9				96.0				
		795	---	---	---	---	---	---	38.4	461	85.1				96.0				
			890	---	---	---	---	---	43.1	462	86.3				96.0				
		1045	---	---	---	---	---	---	50.5	462	87.7				96.0				
		53	270	---	---	---	---	---	---	13.3	470				69.5	87.0	706	18.4	468
585	---			---	---	---	---	28.6	467	82.2	87.0								
650	---			---	---	---	---	---	32.0	470	83.6	87.0							
	685			---	---	---	---	---	33.8	471	84.5	87.0							
705	---			---	---	---	---	---	34.6	469	84.6	87.0							
	790			---	---	---	---	---	38.9	470	86.0	87.0							
54	255			---	---	---	---	---	---	12.3	461	68.2	82.0	777	20.2	438			
				550	---	---	---	---	---	26.7	464	81.4	82.0						
		615	---	---	---	---	---	---	29.9	464	82.9	82.0							
			650	---	---	---	---	---	31.5	463	83.5	82.0							
		665	---	---	---	---	---	---	32.3	464	83.8	82.0							
			55	210	---	---	---	---	---	---	10.3	468	65.0				72.0	1004	26.5
470	---	---			---	---	---	23.0	467	79.9	72.0								
525	---	---			---	---	---	---	25.9	471	81.8	72.0							
	555	---			---	---	---	---	27.3	470	82.4	72.0							
570	---	---			---	---	---	28.0	469	82.7	72.0								
640	---	---	---	---	---	---	31.5	470	84.1	72.0									
56	405	---	---	---	---	---	---	19.7	465	77.0	64.0	1292	33.2	684					
		455	---	---	---	---	---	22.2	466	78.8	64.0								
		480	---	---	---	---	---	---	23.5	468	79.8				64.0				
			495	---	---	---	---	---	24.1	465	80.1				64.0				
		560	---	---	---	---	---	---	27.2	464	81.7				64.0				
			660	---	---	---	---	---	32.2	466	83.9				64.0				
		57	355	---	---	---	---	---	---	17.4	468				75.7	57.5	1563	41.6	603
				400	---	---	---	---	---	19.7	470				77.9	57.5			
425	---			---	---	---	---	---	20.8	467	78.6	57.5							
	435			---	---	---	---	---	21.4	470	79.2	57.5							
494	---			---	---	---	---	---	24.2	468	80.9	57.5							
	58			315	---	---	---	---	---	---	15.2	461	73.1	52.0	1912	50.1			
355		---	---		---	---	---	17.3	465	75.6	52.0								
375		---	---		---	---	---	---	18.3	466	76.5	52.0							
		385	---		---	---	---	---	18.8	466	76.9	52.0							
420		---	---		---	---	---	---	20.5	466	75.8	52.0							

Nota (*) - VENTILAZIONE SOLO L.O. / FAN ONLY SIDE COMMUTATOR

Nota (°) - Regolazione di campo / Field weakening



Potenza eccitazione Excitation power (w)	1500	Tipo	MGL	160 X2
Cost. tempo eccitaz. Field time constant (ms)	357	Ventilazione Ventilation		IC 06
Massa del motore Mass of the motor (Kg)	403			
Momento d'inerzia rotore Rotor inertia moment (Kgm2)	0.47			

Avv.	Velocità nominale n/min a tensione nominale di armatura Rated speed (rev/min) at rated voltage							Potenza Power kW	Coppia vel.nomin. Torque at rated speed Nm	Rendimento Efficiency %	Circuito di armatura Armature circuit			Max giri Max. speed (°)
	220	400	440	460	470	520	600				Corrente Current Amp	Res. 115°C mOhm	Ind. mH	
59		280	---	---	---	---	---	14.0	478	71.4	49.0	2190	59.8	479
			320	---	---	---	---	15.9	475	73.7	49.0			541
				335	---	---	---	16.9	482	75.0	49.0			61
					345	---	---	17.4	482	75.6	49.0			589
						395	---	19.8	479	77.7	49.0			667
							470	23.6	480	80.3	49.0			793
60		245	---	---	---	---	---	12.4	483	68.1	45.5	2628	68.5	433
			280	---	---	---	---	14.2	484	70.9	45.5			491
				300	---	---	---	15.1	481	72.1	45.5			521
					310	---	---	15.6	481	72.9	45.5			535
						355	---	17.8	479	75.2	45.5			607
61		220	---	---	---	---	---	10.9	473	65.7	41.5	3131	81.7	390
			255	---	---	---	---	12.6	472	69.0	41.5			444
				270	---	---	---	13.4	474	70.2	41.5			471
					280	---	---	13.8	471	70.8	41.5			484
						320	---	15.8	472	73.2	41.5			551
							385	19.1	474	76.7	41.5			659
62			230	---	---	---	---	11.0	457	65.8	38.0	3694	95.0	404
				245	---	---	---	11.8	460	67.5	38.0			429
					250	---	---	12.1	462	67.7	38.0			441
						290	---	14.0	461	70.9	38.0			504
							350	17.0	464	74.6	38.0			605

Nota (*) - VENTILAZIONE SOLO L.O. / FAN ONLY SIDE COMMUTATOR

Nota (°) - Regolazione di campo / Field weakening

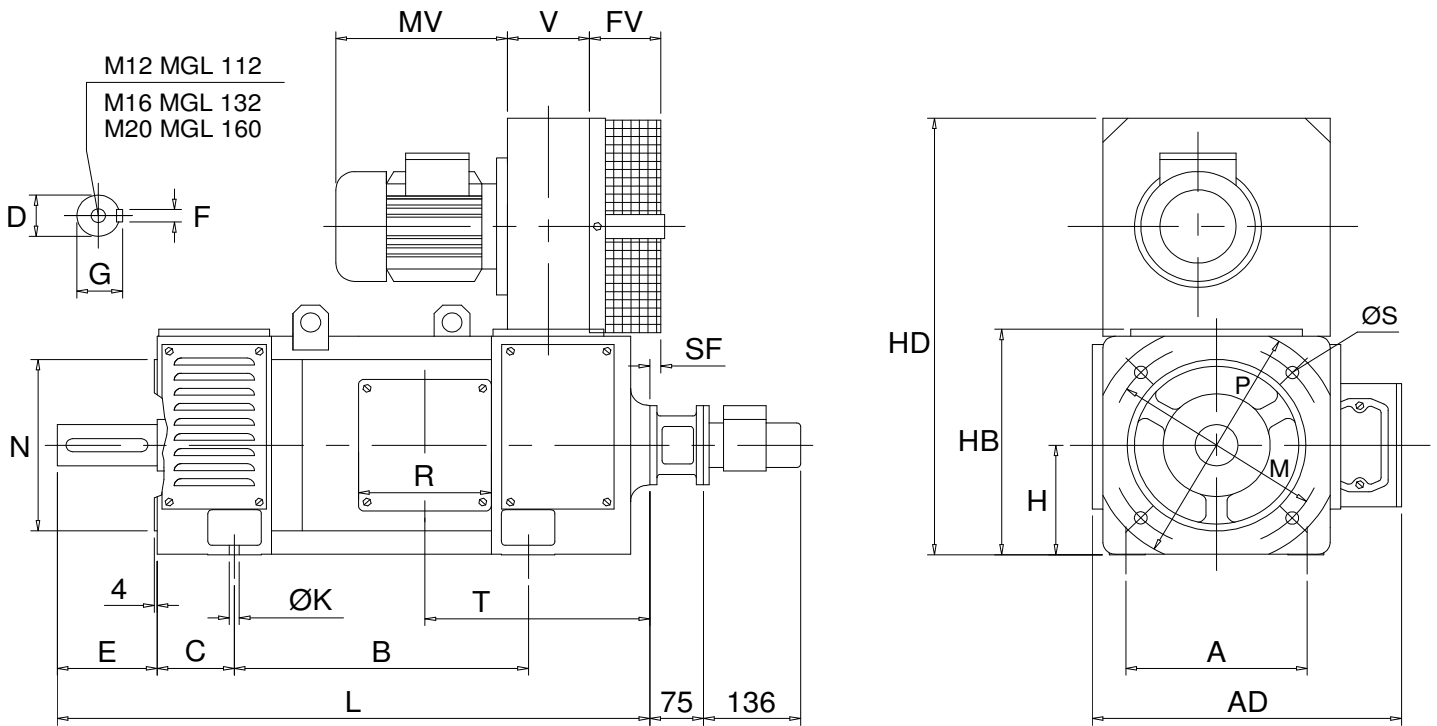


MOTORI C.C. SERIE MGL
GLEICHSTROMMOTOREN SERIE MGL
D.C. MOTORS SERIES MGL

Forma costr. IM B3/B5 e derivate - Mounting IM B3/B5 and derived
 Protezione IP23S - Protection IP23S
 Ventilazione IC06 - Cooling IC06

IN H 03

Foglio/Seite/Sheet
 D 09 93



MGL 160: MORSETTIERA RETTANGOLARE mm 200 x 270
 MGL 160: RECTANGULAR TERMINAL BOARD mm 200 x 270

QUOTE MORSETTIERA	TIPO	R	T
	MGL 112	170	240
DIMENSION TERMINAL BOARD	MGL 132	200	270
	MGL 160	200	325

TIPO	PIAZZAMENTO					ALBERO				FLANGIA				INGOMBRO				ELETTOVENT.				
	A	B	C	H	K	E	D	F	G	M	N	S	P	HD	HB	L	AD	FV	MV	V	SF	
112	S	288														550						
	M	190	318	70	112	12	80	38	10	41	215	180	14	250	445	233	580	325	65	185	92	22
	L		358														620					
132	S		330														656					
	M	216	370	89	132	12	110	48	14	51,5	265	230	14	300	525	273	696	395	70	211	115	34
	L		420														746					
	P		470														796					
160	K		342														760					
	S		372														790					
	M		412														830					
	L	254	462	108	160	14	140	60	18	64	300	250	18	350	630	329	880	450	73	211	135	10
	P		492														910					
	X2		572														990					

**TOLLERANZE SU QUOTE DI
ACCOPPIAMENTO**

Tables: T1

TOLERANCE ON CONNECTION QUOTAS18.05.2007
Sheet N°

	Dimensioni / Size	Tolleranza Tolerance
TOLLERANZA SU DIAMETRO D DELLA SPORGENZA D'ALBERO	Fino a $D = 28$ mm Untill $D = 28$ mm	j6
TOLERANCE ON DIAMETER D OF SHAFT END	Per $D = 32 \div 48$ mm For $D = 32 \div 48$ mm	k6
	Per D superiore a 48 mm For D higher than 48 mm	m6
LINGUETTA TANG	Per tutte For all	h9
FLANGIA B5 E DERIVATE QUOTA N DI CATALOGO	Per N fino a $\varnothing = 230$ mm For N untill $\varnothing = 230$ mm	j6
B5 FLANGE AND DERIVATIVES QUOTA N ON CATALOGUE	Per N oltre a $\varnothing = 230$ mm For N more than $\varnothing = 230$ mm	h6
ALTEZZA D'ASSE H DI CATALOGO HEIGHT AXIS H ON CATALOGUE	Per tutte For all	0 -0.5

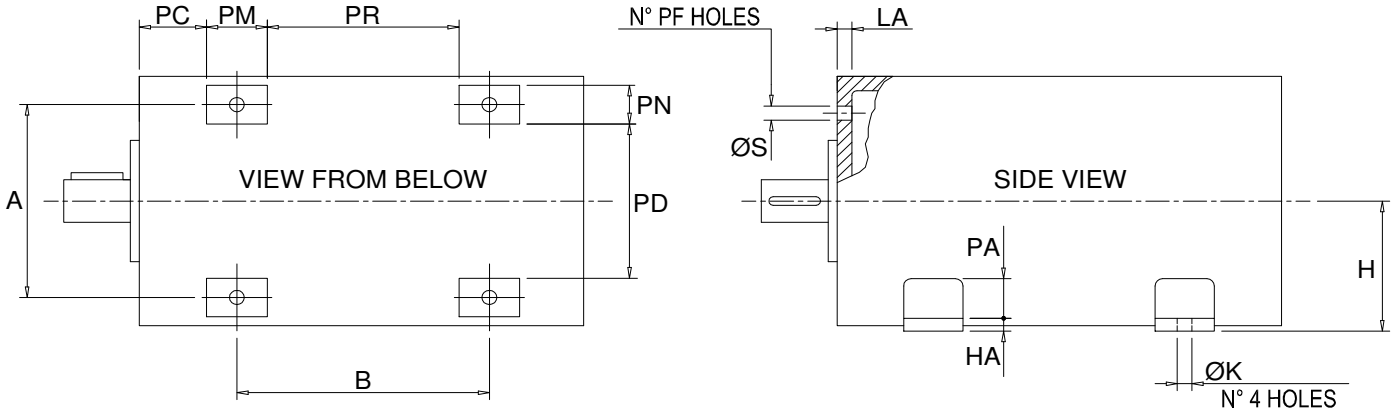


PIAZZAMENTO - QUOTE AUSILIARIE

18.05.2007
Sheet N°

PLACEMENT - AUXILIARY DIMENSION

Tables N°



TIPO/TYPER	A	PD	PN	PC	PM	PR	B	K	S	PF	LA	PA	HA	H	
80	S	170	123	36	57	55	100	160	9	11.5	4	16	31	9	80
	M						125	185							
	L						160	220							
100	S	216	150	45	54	65	132	192	12	14	4	20	35	10	100
	M						157	217							
	L						192	252							
112	S	190	146	31	48	52	228	288	12	14	4	16	40	15	112
	M						258	318							
	L						298	358							
132	S	216	172	38	62	55	275	330	12	14	4	20	40	15	132
	M						315	370							
	L						365	420							
160	P	254	200	50	71	75	415	470	14	18	4	25	52	15	160
	K						268	342							
	S						298	372							
	M						338	412							
	L						388	462							
P	418	492													

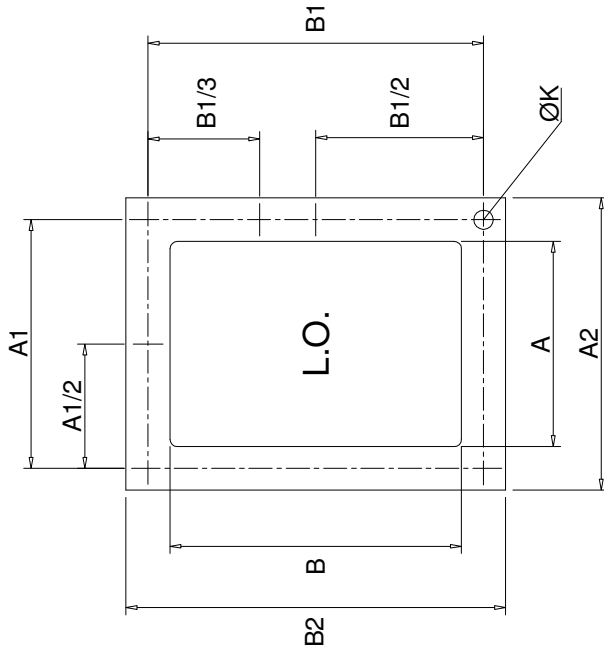


Tabella quote per bocchette di
adattamento ventilazione separata

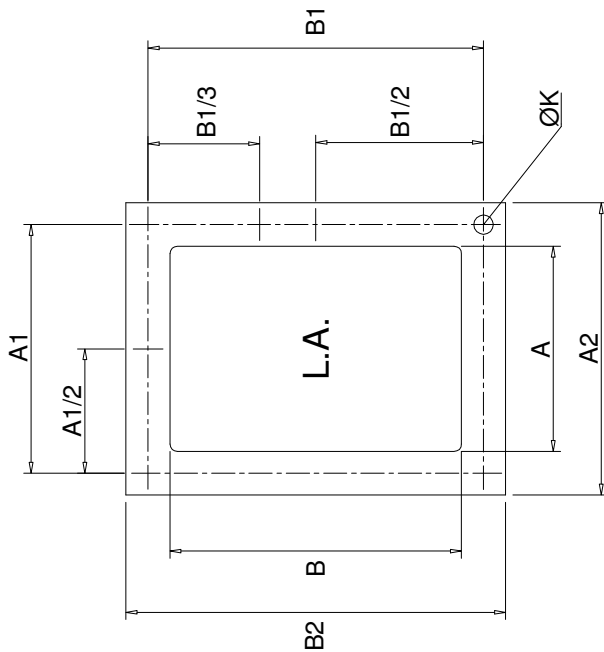
18.05.2007
Sheet N°

Dimensions table of adapted openings
for separated ventilation

Tables N° 40



A1/2 = B1/2 = N° 8 FORI
B1/3 = N° 10 FORI
A1/2 = B1/2 = N° 8 HOLES
B1/3 = N° 10 HOLES



A	B	A1	B1	A2	B2	TIPO
ON TOP / SUPERIORI						80
98	145	108	160	120	172	
ON SIDE / LATERALI						100
98	90	108	90	120	105	
ON TOP / SUPERIORI						100
100	170	113	178	125	134	
ON SIDE / LATERALI						100
100	120	113	122	125	190	
85	140	98	145	110	155	112
105	180	118	185	130	197	132
115	210	135	220	155	240	160

FORI / HOLES	
N°	K
4	6
4	7

TIPO	A	B	A1	B1	A2	B2
ON TOP / SUPERIORI						
80	90	145	108	160	120	172
	ON SIDE / LATERALI					
100	90	90	108	90	120	105
	ON TOP / SUPERIORI					
100	90	170	113	178	125	190
	ON SIDE / LATERALI					
112	90	120	113	122	125	134
	70	140	98	145	110	155
132	90	180	118	185	130	197
160	110	210	135	220	155	240