



servosistema Digital Drive Magnetic
Digital Drive Magnetic servosystem





servosistema DDM + motori NGB e TOP

NGB motors 3x360 Vrms

Motor	Code	Stall torque at $\Delta T105K$ T_{n0} Nm	Torque at nominal speed T_n Nm	Inertia J kgcm ²	Nominal speed N_n RPM	Stall current at $\Delta T105K$ I_{n0} ARMS
NGB 85 S	AL	1.6	1.5	1	3000	1.1
	AK	1.6	1.3	1	5000	1.8
NGB 85 M	AJ	2.8	2.4	2	3000	1.9
	AH	2.8	2.1	2	5000	2.7
NGB 85 L	AH	3.9	3.2	3	3000	2.6
	AN	3.9	2.4	3	5000	3.7
NGB 85 P	AF	5.0	4.0	4	3000	3.4
	AM	5.0	2.6	4	5000	4.7
NGB 108 S	AH	5.1	4.0	5	3000	3.9
	AF	5.1	3.2	5	5000	5.9
NGB 108 M	AG	7.3	5.2	7.5	3000	4.6
	AD	7.3	3.5	7.5	5000	8.1
NGB 108 L	AE	9.5	5.8	9.7	3000	5.9
	AC	9.5	2.8	9.7	5000	10.5
NGB 108 P	AB	11.3	6.2	11.8	3000	6.8
NGB 145 S	AH	12.5	6.3	28	3000	7.8
NGB 145 M	AG	18.8	7.8	38	3000	11.8
NGB 145 L	AE	25.0	8.8	49	3000	15.3
NGB 145 P	AD	30.0	5.5	60	3000	17.9

TOP motors 3x360 Vrms

TOP 40 M	AL	2.5	2.0	0.77	4000	2.6
TOP 40 L	AE	3.5	2.4	1.05	4000	3.7
TOP 50 M	AF	5.5	3.9	2.2	4000	5.1
TOP 50 L	AE	7.8	4.9	3	4000	7.2

Potenza

Alimentazione trifase 3 x 200Vac -10% ÷ 460Vac +10%
Alimentazione sul BUS dc 280 V ÷ 750 V

Caratteristiche avanzate

Regolazione digitale completa con microprocessore DSP (160Mips)
Frequenza di uscita 0-1.100 Hz - Frequenza di switching (PWM) 3-16 kHz
Banda passante anello di velocità 150 Hz - Banda passante anello di corrente 1500 Hz - 3 ingressi veloci con tempo di campionamento 150 MHz

Sensori di posizione/velocità

Il drive gestisce 2 sensori di feedback (uno sul motore e uno sul carico)
Resolver - Encoder TTL line driver - Encoder TTL line driver e sonde Hall
Encoder sin-cos incrementale e assoluto - Encoder Endat 2.1 e 2.2 (verificare modello con Ns. ufficio commerciale) - Encoder Biss

I/O digitali e analogici

8 ingressi digitali optoisolati - 2 uscite digitali configurabili - 2 relè d'uscita
3 ingressi analogici configurabili - 2 uscite analogiche $\pm 10V$
1 ingresso in frequenza max 400kHz

Connettività

Il drive gestisce il bus di campo con 2 linee indipendenti; una di comunicazione fra drive (canbus) e l'altra per la comunicazione esterna:
CANopen profilo DS 402 - Profibus DP - EtherCAT
Altri BUS con modulo Anybus CC

Protezione termica motore

Klixon, PTC, NTC, KTY 84, PT100

Power

Extended three phase supply 3 x 200Vac - 10% ÷ 460Vac +10%
External dc Bus power supply with internal soft start 280 V ÷ 750 V

Advanced features

Full digital regulation with DSP microprocessor (160 Mips)
Output frequency 0÷1.100 Hz - PWM frequency from 3 to 16 kHz
Speed loop bandwidth 150 Hz on band - Current loop bandwidth 1500 Hz on band - 3 fast inputs with sampling time 150 MHz

Feedback Boards

The drive manages two feedback sensors (one on the motor and one on load):
Resolver - Encoder TTL line driver - Encoder TTL line driver e sonde Hall
Encoder sin - cos incremental e absolute - Encoder Endat 2.1 e 2.2 (verify the model with our sales office) - Encoder Biss

Digital and analog I/O

8 configurable digital input (opto) - 2 configurable digital outputs
2 relay outputs - 3 configurable analog inputs - 2 configurable analog outputs $\pm 10V$ - 1 frequency input max 400kHz

Fieldbus

The drive manages the fieldbus with two independent lines, one for communication between drive (canbus) and the second for external communication:
CANopen DS 402 profile - Profibus DP - EtherCAT
Other BUS with Anybus CC module

Motor temperature sensor control

Klixon, PTC, NTC, KTY 84, PT100





DDM servosystem + NGB and TOP motors



DDM drive

General purpose

Drive Model	Tension	Frequency	I rated	T peak max supplied for (3s)	T peak max supplied for 30 sec.	Nominal mechanical power Pn kW
	V _{RMS}	Hz	A _{RMS}	Nm	Nm	
DDM 03A	3x 200V-10%÷460+10%	45÷65	03	4.8	4.8	0.47
DDM 03A	3x 200V-10%÷460+10%	45÷65	03	4.8	4.2	0.70
DDM 03A	3x 200V-10%÷460+10%	45÷65	03	8.4	7.2	0.80
DDM 03A	3x 200V-10%÷460+10%	45÷65	03	6.4	4.9	1.11
DDM 03A	3x 200V-10%÷460+10%	45÷65	03	9.4	7.2	1.05
DDM 07A	3x 200V-10%÷460+10%	45÷65	07	11.7	11.7	1.31
DDM 07A	3x 200V-10%÷460+10%	45÷65	07	15.0	15.0	1.35
DDM 07A	3x 200V-10%÷460+10%	45÷65	07	15.0	12.1	1.43
DDM 07A	3x 200V-10%÷460+10%	45÷65	07	15.3	12.8	1.60
DDM 07A	3x 200V-10%÷460+10%	45÷65	07	10.9	8.7	2.26
DDM 07A	3x 200V-10%÷460+10%	45÷65	07	20.7	16.2	1.98
DDM 12A	3x 200V-10%÷460+10%	45÷65	12	20.0	15.7	2.40
DDM 07A	3x 200V-10%÷460+10%	45÷65	07	21.4	16.8	2.19
DDM 12A	3x 200V-10%÷460+10%	45÷65	12	20.5	16.1	2.01
DDM 07A	3x 200V-10%÷460+10%	45÷65	07	22.6	17.6	2.29
DDM 12A	3x 200V-10%÷460+10%	45÷65	12	34.3	27.0	2.37
DDM 12A	3x 200V-10%÷460+10%	45÷65	12	35.2	28.0	2.92
DDM 22A	3x 200V-10%÷460+10%	45÷65	22	64.8	51.0	3.23
DDM 22A	3x 200V-10%÷460+10%	45÷65	22	67.4	53.2	2.29

DDM drive

Very high dynamic applications

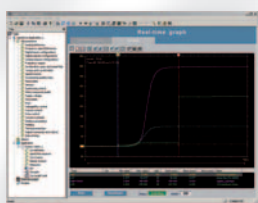
DDM 03A	3x 200V-10%÷460+10%	45÷65	03	4.8	3.9	0.92
DDM 07A	3x 200V-10%÷460+10%	45÷65	07	10.5	8.7	1.10
DDM 07A	3x 200V-10%÷460+10%	45÷65	07	12.0	9.7	1.85
DDM 12A	3x 200V-10%÷460+10%	45÷65	12	22.2	17.6	2.31

Accessori

Keypad remotato per settaggi parametri e diagnosi - Convertitore USB-485 per programmazione e interfaccia da PC con configuratore DDM Explorer - Resistenze di frenatura esterne - Filtri EMC

Accessories

Remote keypad for parameters setting and diagnosis - USB-485 converter for PC programming and device interfacing with DDM Explorer configurator - Clamping resistors - EMC filters

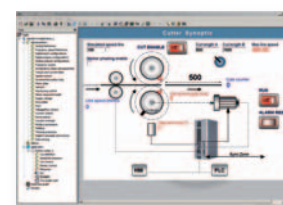


Software applicativi avanzati con PLC a bordo programmabile secondo IEC 61131-3

Asse elettrico - Regolatore PID - Posizionatore - Posizionatore interpolato - (CANopen real time DS 301 - DSP402) - Camma elettronica - Servodiametro - Due banchi di memoria - Indexaggio mandrino - Feedback con encoder fuori asse - Taglio rotativo e lineare - Funzione antigiooco

Advanced application SW with PLC on board programmable in accordance with IEC61131-3

Electrical gear - PID regulator - Positioner - Interpolated positioner (CANopen real time - DS 301 - DSP 402) - Electronic cams - Servodiameter - Two memory banks - Spindle indexing - Encoder management - Flying and rotary cutter - Backlash management



Cavi di collegamento convertitore - motore

Su richiesta presso nostro ufficio commerciale possiamo fornire cavi cablati motore - convertitore con relativi connettori sia per la parte di potenza che per la parte di segnale (trasduttore e protettore termico).

Connection cables converter - motor

On request at our sales office we can provide wired motor-drive cables with connectors for the power and the signal (encoder and thermal protector)

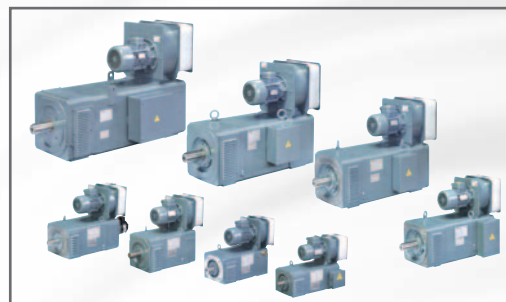


MAGNETIC PRODUCT RANGE

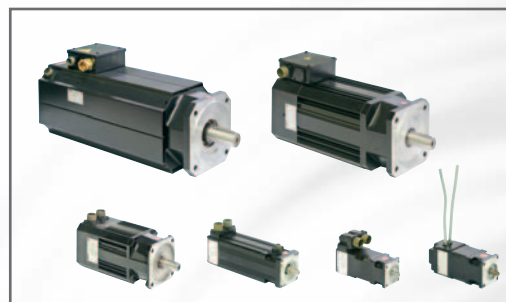
TORQUE MOTORS



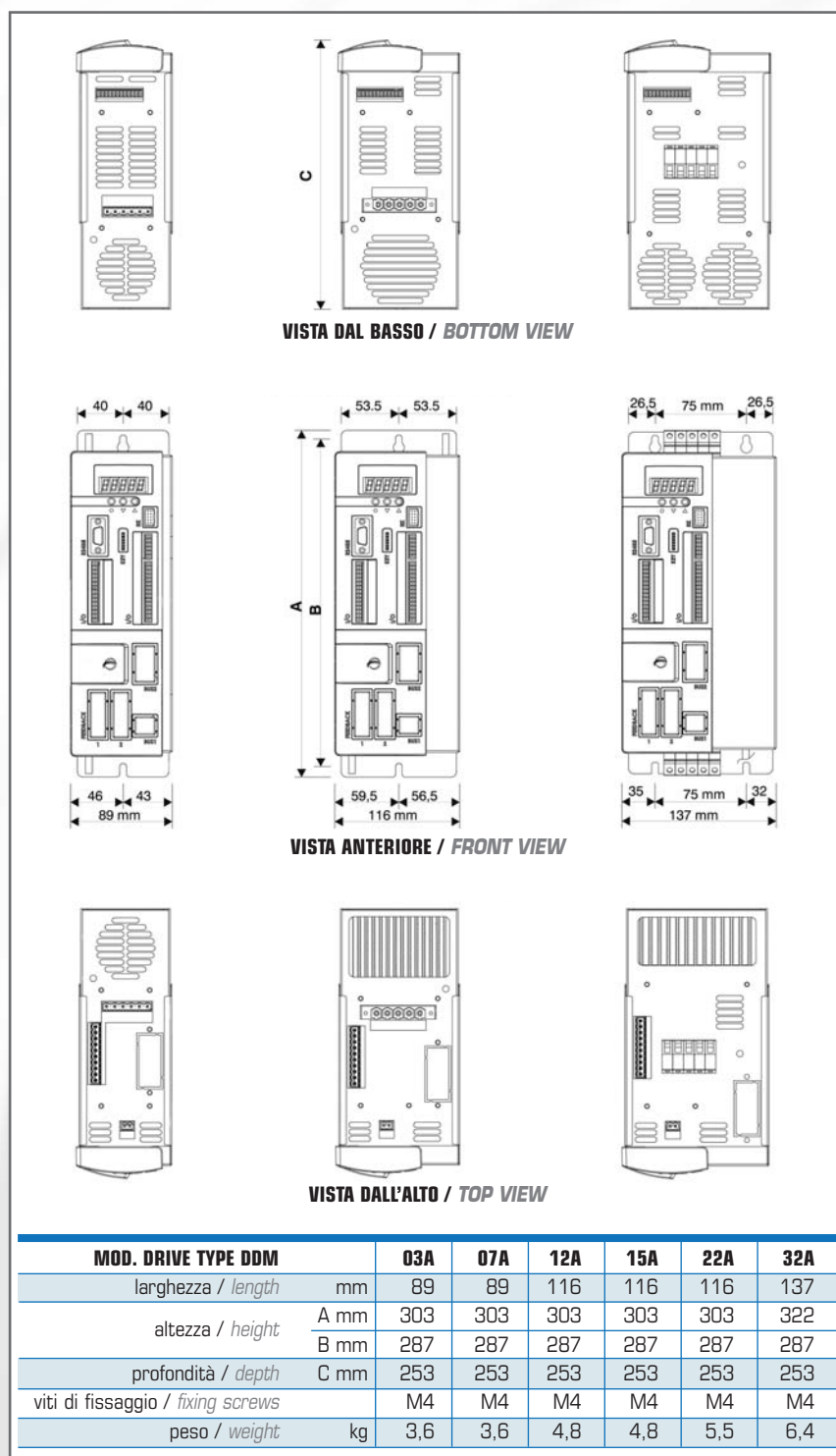
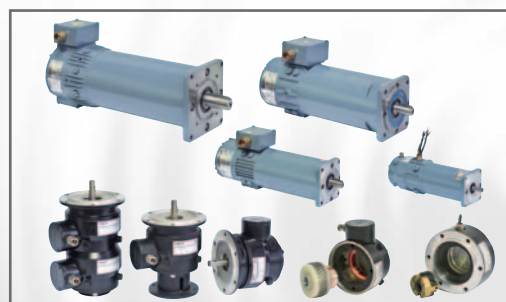
D.C. MOTORS



BRUSHLESS SERVOMOTORS



CENTRIFUGAL RELAYS, D.C. SERVOMOTORS, TACHOGENERATORS



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