



Magnum

400

(M400)

STAND ALONE
BRUSHLESS
SERVODRIVE



P. N. : D.S. / 20.11.18 / M400 / 11

MODEL	MAGNUM 400					
SIZE (A)	1.5 / 3	3.5 / 7	7 / 14	10 / 20	14 / 28	20 / 40
Rated Current (Arms)	1.5	3.5	7	10	14	20
Peak Current (Arms) x 5 sec.	3	7	14	20	28	40
F1: Supply Line Fuses (T-type = time-lag)	4A / 500V	6A / 500V	8A / 500V	10A / 500V	16A / 500V	20A / 500V
Power Supply (3PH) (grounded systems only)	3 x 380 VAc (-10%) – 480 VAc (+10%) 50/60 Hz (single-ph 230 VAc permitted for setup only)					
Logic Supply (from isolation transformer)	24 Vdc (-0% +15%) - 1 Adc (3 Adc with brake)					
Weight	4.2 Kg			4.6 Kg		

STANDARD FEATURES

- ◆ 380-480 VAc supply with built-in EMC line filter and in-rush circuit
- ◆ Driving motor range up to 32 Nm
- ◆ Regen circuit with internal power resistor
- ◆ Speeder-One® software interface (Windows based)
- ◆ Parameter setting by four keys on the front panel or RS232 (opto)
- ◆ Optical isolation between power stage and signals
- ◆ Feedback from encoder (max 250 KHz) sw dividable encoder emulation

OPTIONS

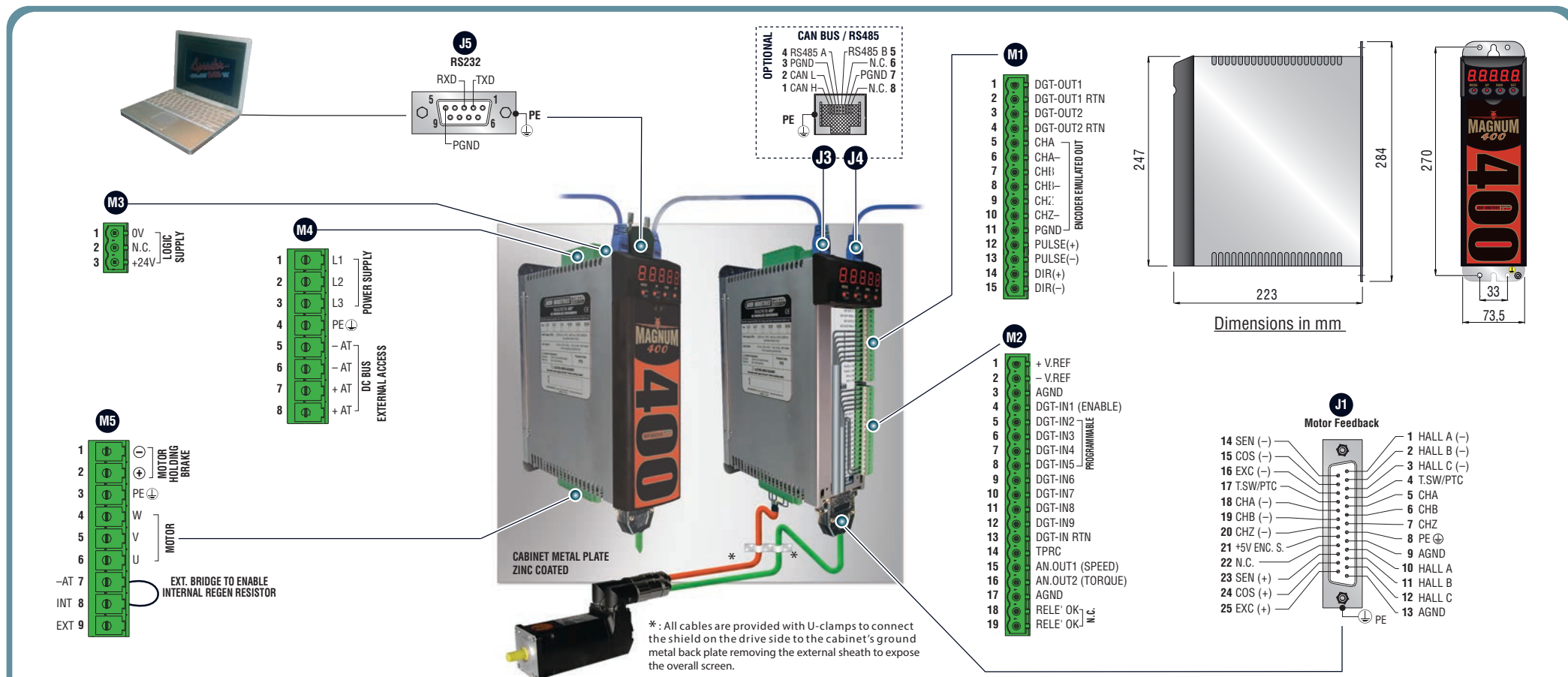
- ◆ Feedback from resolver (2-4-6-8 poles) sw encoder emulation
- ◆ CBMD CAN BUS - CAN V2.0B + RS232 to CAN BUS multidrop
CAN OPEN protocols: DS301-V4.02 - DSP402-V2.0
- ◆ RS 485 interface, Mod Bus-RTU based, 230 kbps max
- ◆ ER Encoder and Resolver feedbacks (both)
- ◆ Boosted dumping resistors (external)
- ◆ RXDB Black-out dynamic brake function (with internal power resistor)
- ◆ HBD Internal Holding Brake Drive Circuitry

SPECIFICATIONS

- ◆ Nominal switching frequency:..... 8 KHz
- ◆ Loop bandwidth:..... 2 KHz (current) - 200 Hz (speed)
- ◆ Operating mode
 - Speed reference (differential):..... ±10 Vdc (15 bit resolution)
 - Pulse /direction
 - Torque control
 - Position control
 - Encoder following
- ◆ 9 opto-isolated digital inputs:..... 24 Vdc - 7 mA (PLC compatible)
- ◆ 2 opto-isolated digital outputs:.. 24 Vdc - 50 mA max (PLC compatible)
- ◆ 2 analog outputs (programmable)
- ◆ Monitor:..... ±10Vdc (current / speed)
- ◆ Relé ok output contacts:..... 30 VAc/dc - 500 mA max
- ◆ Ambient temperature
 - operating at rated data:..... 0 - 45°C (no derating)
 - rated and peak current derating:..... 45 - 55°C (2.5% / °C)
 - maximum operating:..... 55°C max
 - storage:..... -20 - 55°C
- ◆ Humidity (w/out condensation):..... 85% max (operating & storage)
- ◆ Altitude a.m.s.l.
 - operating at rated data:..... 1000 m
 - rated and peak current derating:..... 1000 - 2500 m (1.5 %/100m)
- ◆ Protection rating:..... IP20
- ◆ Storage time:..... 1 year*

NOTE : *After one year storage the electrolytic capacitors must be reformed. Contact AXOR for details.





MAGNUM400

M400 - 20/40 - RXX - S - EC

DRIVE LINE

SIZE: see table on reverse

DUMPING SIZE:

RXX = Internal standard resistor (std)

R05 = 500W external resistor (opt)

66Ω (for 1.5 / 3 to 7 / 14 sizes)

33Ω (for 10 / 20 to 20 / 40 sizes)

R10 = 1000W external resistors (opt)

33Ω+ 33Ω 500W (for 1.5 / 3 to 7 / 14 sizes)

66Ω // 66Ω 500W (for 10 / 20 to 20 / 40)

PROTECTION:

S = Standard
T = Tropicalized

FEEDBACK:

EC = Encoder (std)
ER = Encoder and Resolver (opt)

CBMD

CAN BUS+MULTIDROP Interface
1= with (opt), **0**= w/out (std)

RS485 Interface

1= with (opt), **0**= w/out (std)

RXDB Black Out dynamic brake function

(available for 1.5/3 to 7/14 sizes)

1= with (opt), **0**= w/out (std)

AT EXT External DC Bus
X= with (std)

HBD Holding Brake Drive
1= with (opt), **0**= w/out (std)

NOT USED

0=(std)

SPEC NUMBER (opt)

NOT USED

SW CODE

00000 / 00000

FIRMWARE VERSION

CONFIG FILE