



Mini Magnum

(MM)

SMALL PACKAGE
BRUSHLESS
SERVO DRIVE



P. N. : D.S. / 20.11.18 / MM / 07

MODEL	MINI MAGNUM 400 T			MINI MAGNUM 230 T			MINI MAGNUM 230 M		
SIZE (A)	1.5 / 3	3.5 / 7	6 / 12	1.5 / 3	3.5 / 7	6 / 12	1.5 / 3	3.5 / 7*	6 / 12*
Rated Current (Arms)	1.5	3.5	6	1.5	3.5	6	1.5	3.5	6
Peak Current x 5'' (Arms)	3	7	12	3	7	12	3	7	12
F1: Supply Line Fuses (T-type = time-lag)	4A / 500V	6A / 500V	10A / 500V	3A / 250V	5A / 250V	8A / 250V	3A / 250V	5A / 250V	8A / 250V
Power Supply 50/60 Hz (grounded sys. only)	3x380VAC (-10%) - 480VAC (+10%)			3x110VAC (-10%) - 230VAC (+10%)			1x110VAC (-10%) - 230VAC (+10%)		
Logic Supply (from isolation transformer)	24 Vdc (-0%+15%) - 1 Adc (2 Adc with brake)								

*: Single phase does not allow you to obtain the rated performances (torque and speed of motor). Contact Axor for details.

STANDARD FEATURES

- ◆ 110 - 480 V_{AC} power supply
- ◆ Driving motor range up to 7.5 Nm
- ◆ Built-in EMC line filter and in-rush circuit
- ◆ Regen circuit with internal power resistor
- ◆ Speeder-One® software interface (Windows based)
- ◆ Parameter setting by four keys on the front panel or RS232 (opto)
- ◆ Shielding cable connection directly to the front panel
- ◆ Optical isolation between power stage and signals
- ◆ Feedback from encoder (max 250 KHz) dividable encoder emulation (sw)

OPTIONS

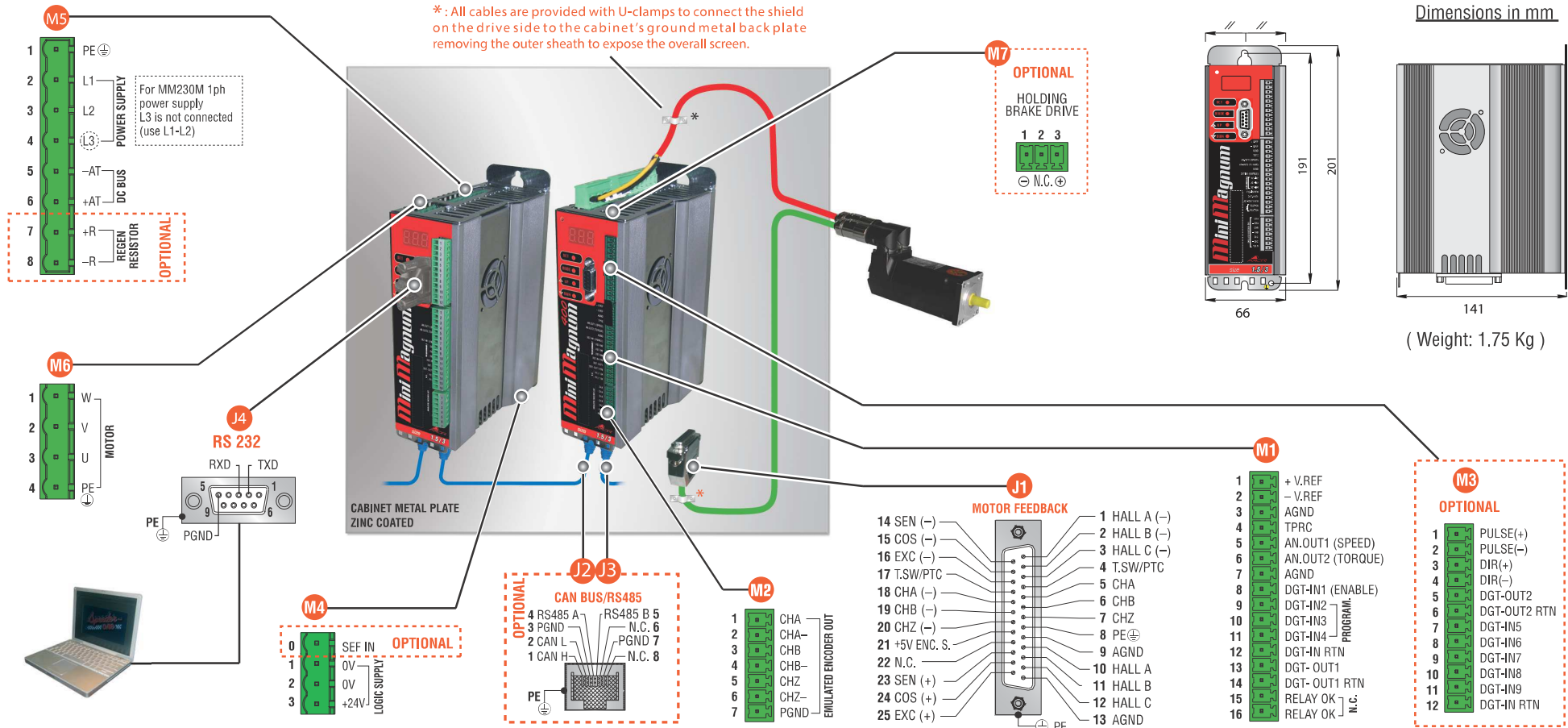
- ◆ **R0** Feedback from resolver (2-4-6-8 poles) encoder emulation (sw)
- ◆ **CBMD** CAN BUS - CAN V2.0B + RS232 to CAN BUS multidrop
CAN OPEN protocols: DS301-V4.02 - DSP402-V2.0
- ◆ **RS 485** interface, ModBus-RTU based , 230 kbps max
- ◆ **ER** Encoder and Resolver feedbacks (both)
- ◆ **R05/R10** Boosted dumping resistors (external)
- ◆ **SEF** Safety Enable Function (according to EN954-1/cat.3)
- ◆ **RXDB** Black-out dynamic brake function (with internal power resistor)
- ◆ **M3 I/O** additional inputs/outputs
- ◆ **HBD** Holding Brake Drive Circuit
- ◆ Switching frequency 16 KHz (30% current derating)
- ◆ **230 M**: 110 - 230 V_{AC} single PH power supply

SPECIFICATIONS

- ◆ Nominal switching frequency:..... 8 KHz
- ◆ Loop bandwidth:..... 2 KHz (current) - 200 Hz (speed)
- ◆ Operating mode
 - Speed reference (differential):..... ±10 V_{DC} (15 bit resolution)
 - Pulse / direction
 - Position control
- ◆ 4+5 opto-isolated digital inputs:..... 24 V_{DC} - 7mA (PLC compatible)
- ◆ 1+1 opto-isolated digital outputs:.... 24 V_{DC} - 50mA max (PLC compatible)
- ◆ 2 analog outputs (programmable)..... ±10V_{DC} (at peak current/speed)
- ◆ Relay ok output contacts:..... 30 V_{AC/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.





MINI MAGNUM

MM 400T - 3.5 / 7 - RXX - S - EC

HARDWARE CODE

- 0 0 0 0 X

SW CODE

0 X - Sxxx 0000 / 0000

DRIVE LINE

POWER SUPPLY:

400T = 380 - 480 V_{AC} 3PH (std)
230T = 110 - 230 V_{AC} 3PH (std)
230M = 110 - 230 V_{AC} 1PH (opt)

SIZE: see table on reverse

DUMPING SIZE:

RXX = Internal standard resistor (std)
R05 = 500W - 66Ω external resistor (opt)
R10 = 1000W - 33Ω + 33Ω 500W external resistors (opt)

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

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

Not used

Additional Connector M3

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

SEF Safety Enable Function

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

SPEC NUMBER (opt)

NOT USED

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

FIRMWARE VERSION **CONFIG FILE**