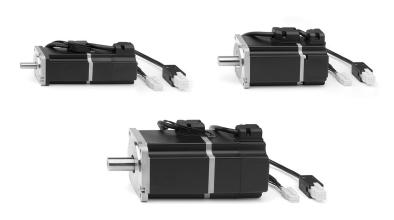
Series MTB motors for electric actuation

Brushless motors in power classes 100, 400, 750, 1000 W



The Camozzi motors Series MTB have been designed to be connected in an easy and practical way to the new product range within electrical actuation, being able to drive both electromechanical cylinders and axes.

The Series MTB of synchronous AC Brushless motors is available with a power of 100, 400, 750, 1000 W.

- » Low inertia motors
- » Available with or without brake
- » With incremental 13 bit encoder
- » Different sizes or power classes available
- » IP65 version available

The standard motors are equipped with a 13 bit encoder with 10,000 increments per cycle and are offered with or without a motor brake. Due to the high dynamics of these motors, it is possible to guarantee a constant torque at any speed.

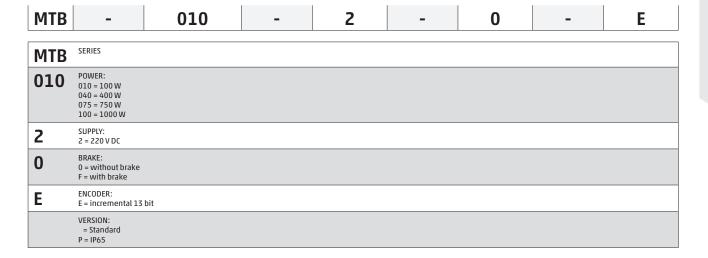
Due to the low mass inertia, they are particularly suitable for high work dynamics, like sudden changes in direction or high moving frequencies.

GENERAL DATA

Power	100 W (Mod. MTB-010) 400 W (Mod. MTB-040) 750 W (Mod. MTB-075) 1000 W (Mod. MTB-100)								
Type of motor	permanently excited synchronous servo motor								
Magnet	Neodymium, iron and boron (NdFeB)								
Housing	Aluminium								
Colour	black								
Protection class: motor on the shaft connector	IP65 IP40 IP20								
Insulation class	class A								
Shaft end	no machining								
Nominal torque	0.32 Nm (100 W) - 1.27 Nm (400 W) - 2.4 Nm (750 W) - 4.77 Nm (1000 W)								
Peak torque	3 × nominal torque								
Braking torque (only for motors with brake)	0.32 Nm (100 W) - 1.27 Nm (400 W) - 2.4 Nm (750 W) - 4.77 Nm (1000 W)								
Service life	> 20.000 h (at nominal load)								
Motor connection Encoder connection	cable (300 mm) available out of the motor cable (300 mm) available out of the encoder (motors with 1 KW power are equipped with an outgoing motor connector)								
Cooling	with an integrated radiator								
Thermal monitoring	not available								
Encoder	incremental 13-bit TTL encoder, 10 000 pulses/revolution								
Ambient temperature Storage temperature	0°C ÷ 40°C −15°C ÷ 70°C								
Air humidity	up to 80% of relative air humidity								
Max. installation height	at below 1000 metres above sea level								

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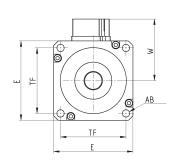


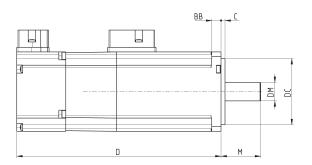


Series MTB Brushless motors - dimensions



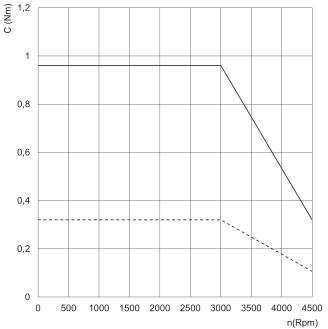
Supplied with: 1 motor 4 screws

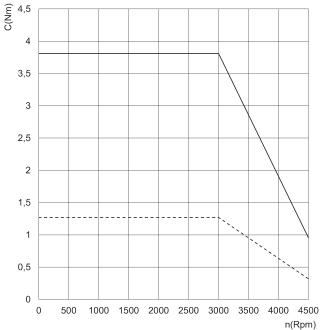




Mod.	Power	D	E	W	_ø DM ^(h6)	M	øDC	С	TF	_ø AB	BB	Weight (Kg)
MTB-010-2-0-E	100 W	110.5	42	32	8	25	30 f7	2.5	31.8	3.4	12	0.63
MTB-010-2-0-EP	100 W	110.5	42	32	8	25	30 f7	2.5	31.8	3.4	12	0.75
MTB-010-2-F-E	100 W	139	42	32	8	25	30 f7	2.5	31.8	3.4	12	0.76
MTB-010-2-F-EP	100 W	139	42	32	8	25	30 f7	2.5	31.8	3.4	12	0.9
MTB-040-2-0-E	400 W	121.5	60	46.5	14	30	50 h7	3	49.5	5.5	7.5	1.31
MTB-040-2-0-EP	400 W	121.5	60	46.5	14	30	50 h7	3	49.5	5.5	7.5	1.4
MTB-040-2-F-E	400 W	159	60	46.5	14	30	50 h7	3	49.5	5.5	7.5	1.86
MTB-040-2-F-EP	400 W	159	60	46.5	14	30	50 h7	3	49.5	5.5	7.5	1.95
MTB-075-2-0-E	750 W	140	80	56.5	19	40	70 f6	3	63.6	6.6	9	2.66
MTB-075-2-0-EP	750 W	140	80	56.5	19	40	70 f6	3	63.6	6.6	9	2.75
MTB-075-2-F-E	750 W	176	80	56.5	19	40	70 f6	3	63.6	6.6	9	3.32
MTB-075-2-F-EP	750 W	176	80	56.5	19	40	70 f6	3	63.6	6.6	9	3.45
MTB-100-2-0-EP	1000 W	141	130	113	24	55	110	3	102.5	9	12	5.8
MTB-100-2-F-EP	1000 W	175	130	113	24	55	110	3	102.5	9	12	7.7

Torque-speed curves





MTB-010..

C = torque

n = number of revolutions per minute

The continuous line represents the peak torque of the motor.

The dashed line represents the nominal torque of the motor.

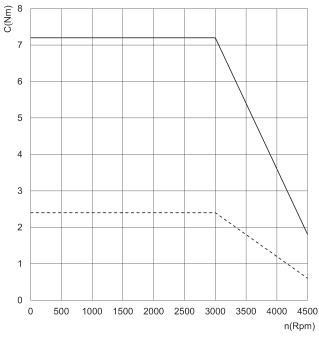
MTB-040..

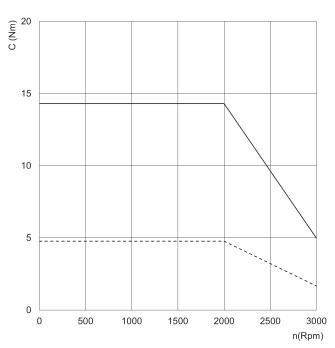
C = torque

n = number of revolutions per minute

The continuous line represents the peak torque of the motor.

The dashed line represents the nominal torque of the motor.





MTB-075..

C = torque

n = number of revolutions per minute

The continuous line represents the peak torque of the motor.

The dashed line represents the nominal torque of the motor.

MTB-100..

C = torque

n = number of revolutions per minute

The continuous line represents the peak torque of the motor.

The dashed line represents the nominal torque of the motor.