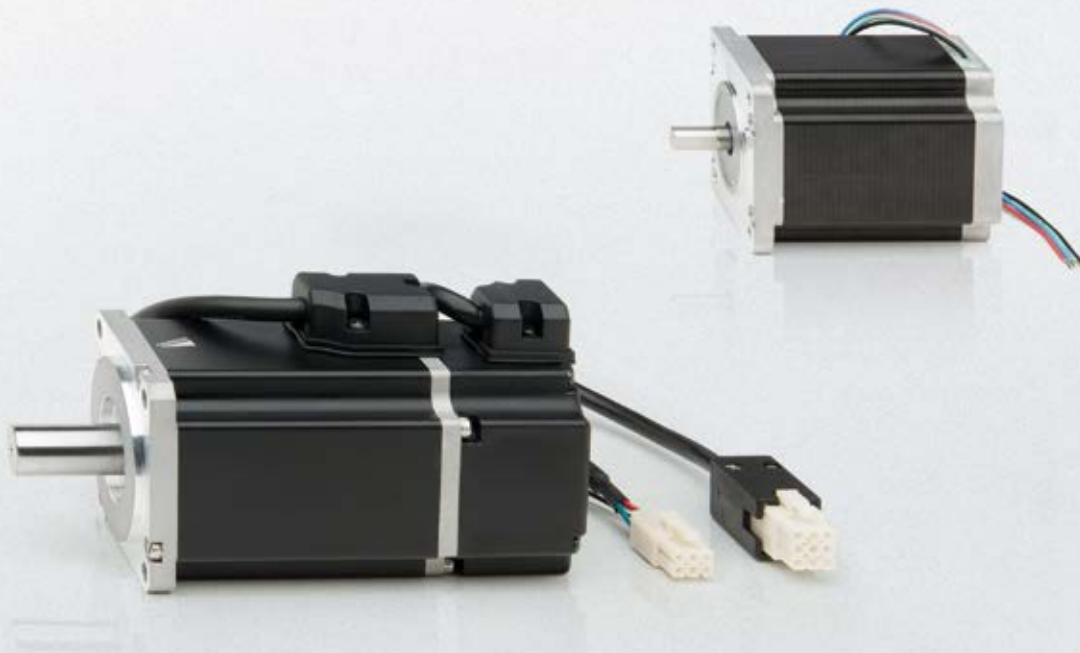


# Series MTS and MTB

Motors for electric actuation

Series MTS: Nema fixing flange 17-23-24

Series MTB: in power classes 100 - 400 - 750 W



The new Camozzi motors in both its versions **MTS** and **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 new **Series MTB** of synchronous AC brushless motors is available with a power of 100, 400 and 750 W. 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. The new **Series MTS** electrical stepper motors, in the sizes from Nema 14 to Nema 24, are available with single or double shaft, with or without brake, according to the application needs of the client. Each motor version comes with its own driving version that is interfaceable with the QuickSet configuration software, especially developed by Camozzi in order to simplify the setting up of the electric actuator.

- > HIGH DYNAMIC MOTORS
- > AVAILABLE WITH AND WITHOUT BRAKE
- > WITH SINGLE OR DOUBLE SHAFT (ONLY MTS)
- > WITH ABSOLUTE 13 BIT ENCODER (ONLY MTB)
- > DIFFERENT SIZES OR POWER CLASSES AVAILABLE IN ORDER TO MEET ALL REQUIREMENTS

General data  
MTS

MOD.	SHAFT	LEADS	LENGTH "L" [mm]	HOLDING TORQUE [Nm]	CURRENT A/Phase	RESISTANCE Ω/Phase	ROTOR INERTIA g·cm <sup>2</sup>	MOTOR MASS KG	DIELECTRIC STRENGTH
MTS-17-18-050-4-0-S MTS-17-18-050-0-0-S MTS-17-18-050-4-F-S MTS-17-18-050-0-F-S	Single Shaft	4	48.3	0.5	1.8	2.3	82	0.36	500V AC 1 minute
MTS-23-18-060-4-0-S MTS-23-18-060-0-0-S MTS-23-18-060-4-F-S MTS-23-18-060-0-F-S	Single Shaft	4	41	0.6	4.5	0.48	135	0.42	500V AC 1 minute
MTS-24-18-250-4-0-S MTS-24-18-250-0-0-S MTS-24-18-250-4-F-S MTS-24-18-250-0-F-S	Single Shaft	4	85	2.5	4.5	0.65	900	1.4	500V AC 1 minute

General data  
MTB

MOD.	MTB-010-2-0-E-04 MTB-010-2-F-E-04	MTB-040-2-0-E-06 MTB-040-2-F-E-06	MTB-075-2-0-E-08 MTB-075-2-F-E-08
Power	100 W	400 W	750 W
Motor type	Permanently excited synchronous servo motor		
Magnets	Neodymium iron boron magnets		
Housing	Aluminium		
Colour	Black		
Motor protection class	IP65		
Connector protection class	IP20		
Motor shaft protection class	IP40		
Insulation class	Class A		
Shaft end	With feather key groove		
Peak torque	3 × nominal torque		
Service life	> 20 000 h (at nominal load)		
Motor connection	Cable (300 mm) with ready-assembled connector		
Encoder connection	Cable (300 mm) with ready-assembled connector		
Cooling	Convective		
Thermal monitoring	Not available		
Encoder	Incremental 13-bit TTL encoder, 10 000 pulses/revolution		
Ambient temperature	0 °C to 40 °C		
Storage temperature	-15 °C to 70 °C		
Air humidity	Up to 80 % relative air humidity		
Max. installation height	1000 m above sea level		