

MOTORS FOR ELECTRIC ACTUATION

SERIES MTS

Stepper motors with Nema 17, 23, 24, 34 fixing flange



- Low inertia motors
- Different sizes or power classes available
- Version with incremental encoder
- Version with incremental encoder and brake
- IP65 version available

The new Camozzi motors Series MTS 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 MTS electrical Stepper motors are available in the sizes Nema 17, 23, 24 and Nema 34.

Each motor version comes with its own driving version that is interfaceable with the QSet configuration software, especially developed by Camozzi in order to simplify the setting up of the electric actuator.

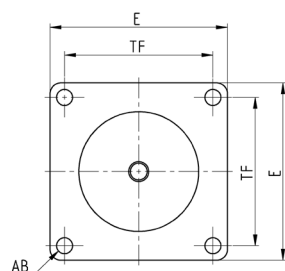
GENERAL DATA

Models	MTS-17-18-050-0-0-S-C MTS-17-18-050-0-F-S-C	MTS-23-18-060-0-0-S-C MTS-23-18-060-0-0-E-C MTS-23-18-060-0-F-E-C MTS-23-18-120-0-0-S-CP	MTS-24-18-250-0-0-S-C MTS-24-18-250-0-0-E-C MTS-24-18-250-0-F-E-C MTS-24-18-250-0-0-S-CP	MTS-34-18-701-0-0-S-C
Shaft	single	single	single	single
Leads	4	4	4	5
Length				
Holding torque	0,5 Nm	0,6 Nm 0,6 Nm/1,2 Nm (Nema 23 IP65 only)	2,5 Nm	7,1Nm
Current per phase	1,7 A/Phase	4,5 A/Phase	4,5 A/Phase	7 A/Phase
Resistance	1,8 Ω/Phase	0,48 Ω/Phase	0,65 Ω/Phase	0,49 Ω/Phase
Motor inertia	68 g·cm ²	135 g·cm ²	900 g·cm ²	2750 g·cm ²
Dielectric strength	500 V AC/min	500 V AC/min	500 V AC/min	500 V AC/min

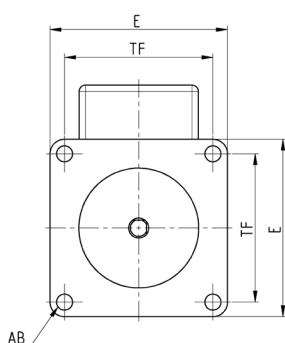
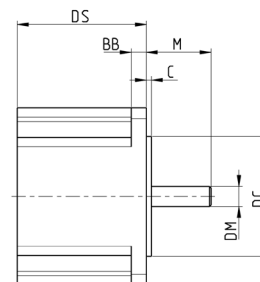
MOTORS FOR ELECTRIC ACTUATION
SERIES MTS - CODING EXAMPLE

CODING EXAMPLE

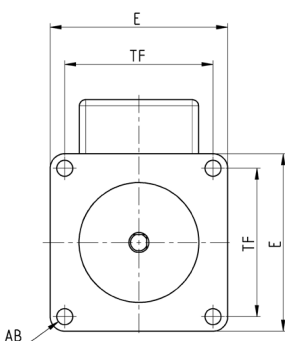
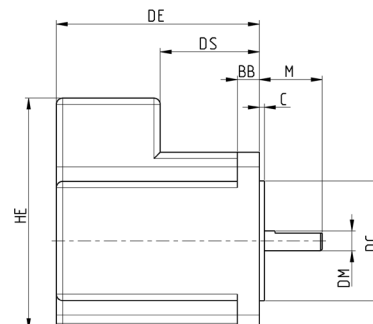
MTS	-	23	-	18	-	060	-	0	-	0	-	S	-	C
MTS	SERIES													
23	MOTOR SIZE FLANGE CONNECTION 17 = Nema 17 23 = Nema 23 24 = Nema 24 34 = Nema 34													
18	RESOLUTION IN DEGREES PER REVOLUTION 18 = 1,8° per step													
060	TORQUE 050 = 0,5 Nm with Nema 17 only 060 = 0,6 Nm with Nema 23 only 120 = 1,2 Nm with Nema 23 IP65 only 250 = 2,5 Nm with Nema 24 only 701 = 7,1 Nm with Nema 34 only													
0	ELECTRICAL CONNECTION 0 = connector													
0	BRAKE 0 = without brake F = with brake													
S	ENCODER VARIANTS S = single shaft without encoder E = single shaft with encoder (SIZE Nema 23 and 24 only)													
C	MECHANICAL SHAFT VARIANTS C = cylindrical shaft													
	VERSION = Standard P = IP65													

Series MTS Stepper motors - dimensions


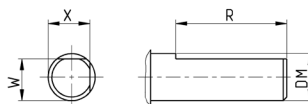
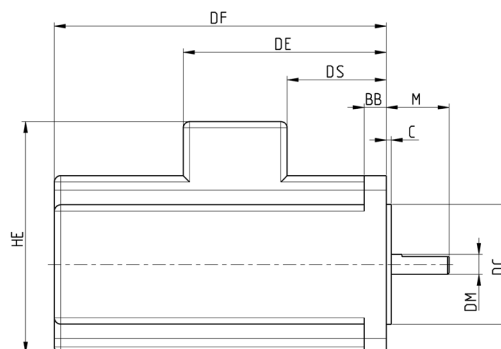
Layout 1



Layout 2



Layout 3



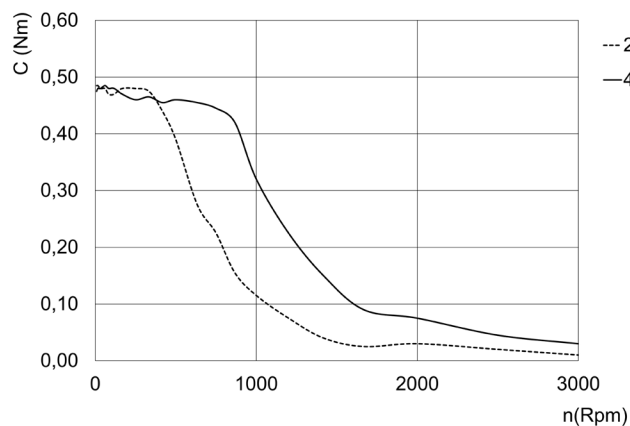
Mod.	Brake	Encoder	Nema	Layout	DS	DE	DF	HE	E	$\phi_{DM}^{(h7)}$	M	ϕ_{DC}^{i10}	C	TF	ϕ_{AB}	BB	L _{cables}	X	W	R	J (Kgcm ²)	Weight (kg)
MTS-17-18-050-0-0-S-C	-	-	17	1	48	-	-	-	42,3	5	24	22	2	31	M3 4,5	-	300 ± 10	4,5	-	22	0,07	0,35
MTS-17-18-050-0-F-S-C	x	-	17	1	78	-	-	-	42,3	5	24	22	2	31	M3 4,5	-	300 ± 10	-	-	-	0,07	0,46
MTS-23-18-060-0-0-S-C	-	-	23	1	39	-	-	-	56,4	6,35	20,6	38,1	1,6	47,14	5,1	5,08	300 ± 10	-	-	-	0,135	0,42
MTS-23-18-120-0-0-S-CP*	-	-	23	1	61,7	-	-	-	56,4	6,35	20,6	38,1	1,6	47,14	5,1	7	2000 ± 20*	5,8	-	15	0,46	0,6
MTS-23-18-060-0-0-E-C	-	x	23	2	31,5	64,5	-	73,6	56,35	6,35	20,6	38,1	1,6	47,14	5,1	7	200 ± 50	5,8	-	15	0,135	0,42
MTS-23-18-060-0-F-E-C	x	x	23	3	31,5	64,5	105,5	73,6	56,3	6,35	20,6	38,1	1,6	47,14	5,1	7	200 ± 50	5,8	-	15	0,135	0,62
MTS-24-18-250-0-0-S-C	-	-	24	1	86,5	-	-	-	60	8	20,6	38,1	1,5	47,14	4,5	7	300 ± 10	-	-	-	0,9	1,4
MTS-24-18-250-0-0-S-CP*	-	-	24	1	94,5	-	-	-	60	8	24	38,1	1,5	47,14	4,52	8	2000 ± 20*	7,5	-	20	0,9	1,6
MTS-24-18-250-0-0-E-C	-	x	24	2	78	111	-	77,415	60	8	20,6	38,1	1,5	47,14	4,5	8	200 ± 50	7,5	7,5	15	0,9	1,4
MTS-24-18-250-0-F-E-C	x	x	24	3	78	111	152	77,415	60	8	20,6	38,1	1,5	47,14	4,5	8	200 ± 50	7,5	7,5	15	0,9	1,6
MTS-34-18-701-0-0-S-C	-	-	34	1	125,5	-	-	-	86	14	37	73,025	2	69,6	6,5	10	300 ± 10	-	-	-	2,75	3,8
MTS-34-18-701-0-0-S-CP*	-	-	34	1	127,5	-	-	-	86	14	37	73,025	2	69,6	6,5	10	2000 ± 20*	13	13	25	2,75	3,8

*cable without connector, a wiring kit will be supplied

Torque-speed curves

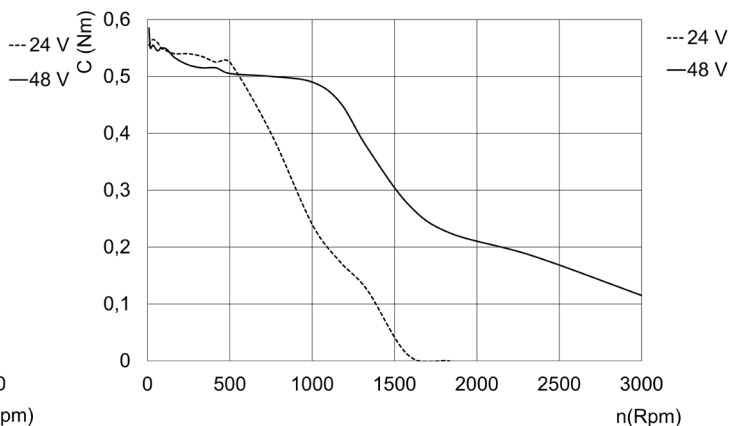
ELECTRIC ACTUATION

2



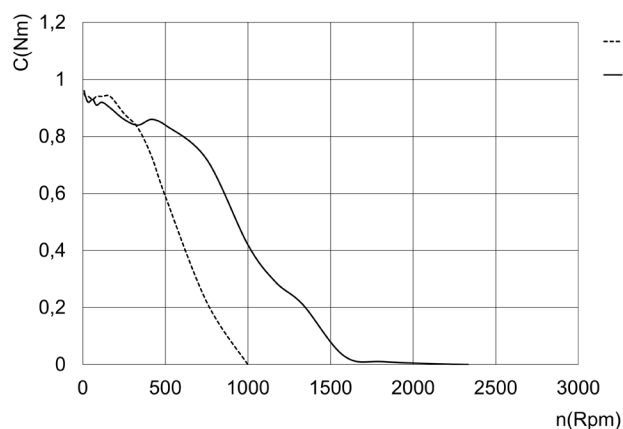
Nema 17 motors
Mod. MTS-17-18-050-0-0-S-C
Mod. MTS-17-18-050-0-F-S-C

C = torque [Nm]
n = revolutions per minute [Rpm]



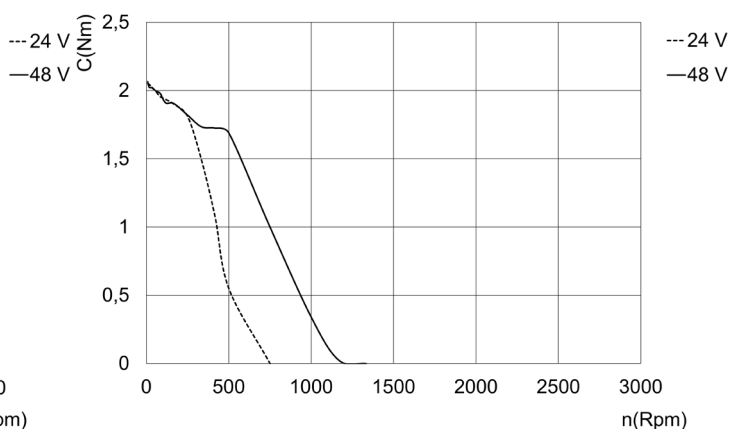
Nema 23 motors
Mod. MTS-23-18-060-0-0-S-C
Mod. MTS-23-18-060-0-0-E-C
Mod. MTS-23-18-060-0-F-E-C

C = torque [Nm]
n = revolutions per minute [Rpm]



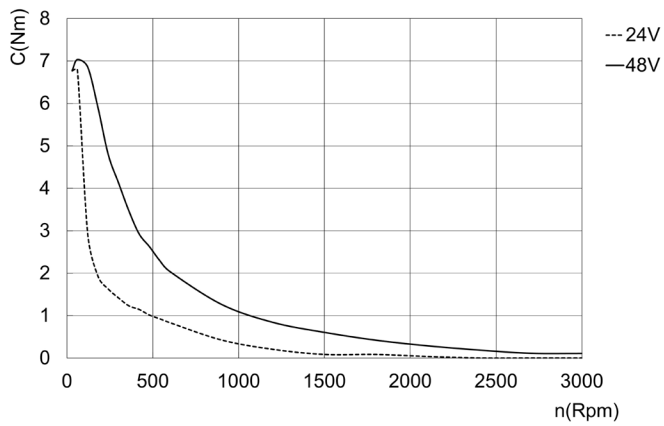
Nema 23 motors IP65
Mod. MTS-23-18-120-0-0-S-CP

C = torque [Nm]
n = revolutions per minute [Rpm]



Nema 24 motors
Mod. MTS-24-18-250-0-0-S-C
Mod. MTS-24-18-250-0-0-E-C
Mod. MTS-24-18-250-0-F-E-C
Mod. MTS-24-18-250-0-0-S-CP

C = torque [Nm]
n = revolutions per minute [Rpm]



Nema 34 motors
Mod. MTS-34-18-701-0-0-5-C

C = torque [Nm]
n = revolutions per minute [Rpm]