

MT23AK / 1,8°

• General characteristics

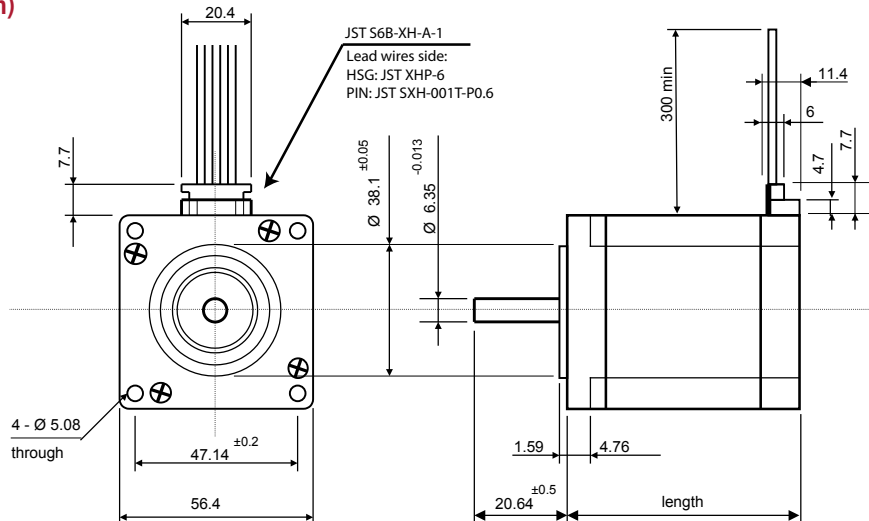


Step accuracy	±5%
Temperature rise	80° C max @ nominal current
Ambient temperature	-10° C ~ +50° C
Insulation resistance	100Mohm min. 500Vdc.
Dielectric strength	500Vac 1 minute
Insulation class	B, 120° C
Protection	IP30
Shaft radial play	20 µm max @450 g. load
Shaft axial play	80 µm max @450 g. load

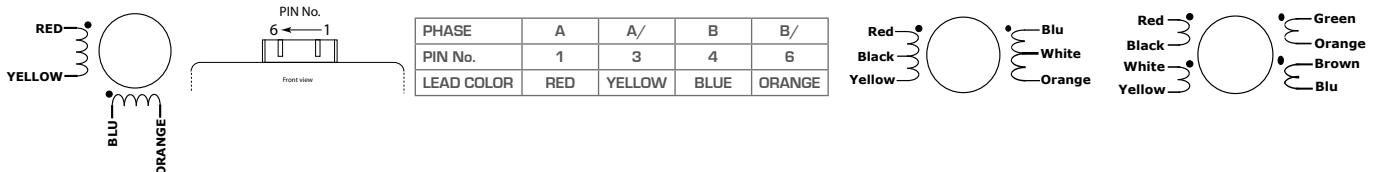
• Specifications

Model Code	Rated Voltage (V)	Phase Current (A)	Phase Resistance (ohm)	Phase Inductance (mH)	Holding Torque (Nm)	Detent Torque (Nm)	Rotor Inertia (g.cm ²)	Wires	Motor Length (mm)	Weight (Kg)	Special (see pag.4)
MT23AK17004M601	12.0	0.40	30.0	34.0	0.497	---	150	6	42.0	0.47	front shaft dad=8.0 mm + D-cut dnl=15.0 mm and dmp=7.0 mm
MT23AK22010M403	5.00	1.00	5.00	20.70	0.882	---	280	4	54.0	0.68	wires length 600 mm
MT23AK22015M4VC	5.10	1.50	3.40	17.50	0.950	0.049	200	4	54.0	0.68	low inertia and high torque rotor
MT23AK22017M403	4.40	1.70	2.60	10.90	1.078	0.049	200	4	54.0	0.68	no connector on board + low inertia rotor
MT23AK22020M407	3.52	2.00	1.76	4.20	0.833	0.039	280	4	54.0	0.68	front shaft D-cut dnl=16.0 mm and dmp=5.5 mm + no cable
MT23AK22030M4V	1.14	3.00	0.38	1.60	0.784	---	280	4	54.0	0.68	---
MT23AK22033M8	2.10	3.30	0.69	1.20	0.970	---	240	8	54.0	0.68	no connector on board + low inertia rotor
MT23AK30015M4VC	6.30	1.50	4.20	18.00	1.760	---	360	4	76.0	1.05	low inertia and high torque rotor
MT23AK30020M4V	1.80	2.00	0.90	2.50	0.882	---	440	4	76.0	1.05	no cable
MT23AK30033M8	3.00	3.30	0.89	1.70	1.300	---	440	8	76.0	1.05	no connector on board
MT23AK30035M4VC	3.00	3.50	0.85	2.40	1.675	0.300	360	4	76.0	1.05	low inertia and high torque rotor
MT23AK30046B401	1.80	4.60	0,40	1.80	1.700	---	290	4	76.0	1.05	double shaft + low inertia and high torque rotor + no connector on board

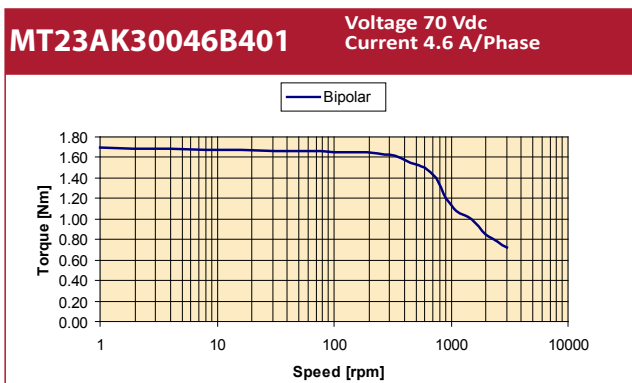
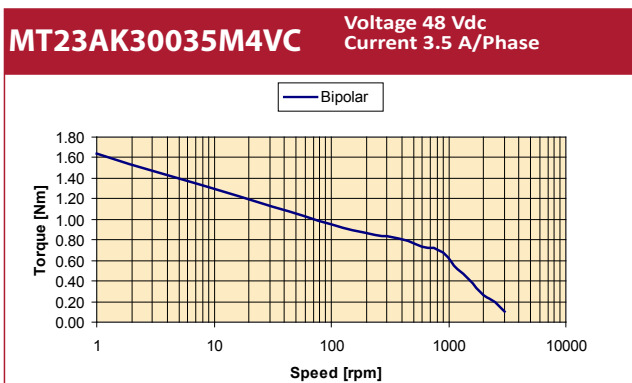
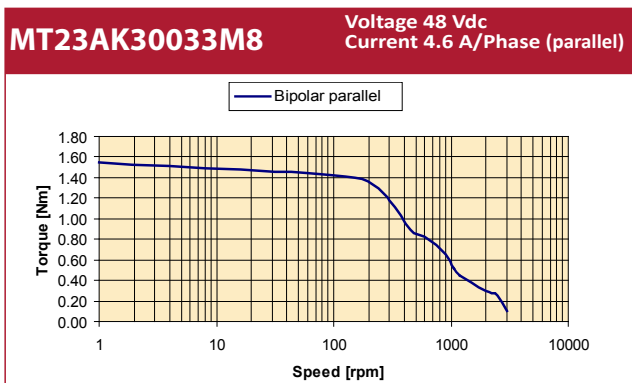
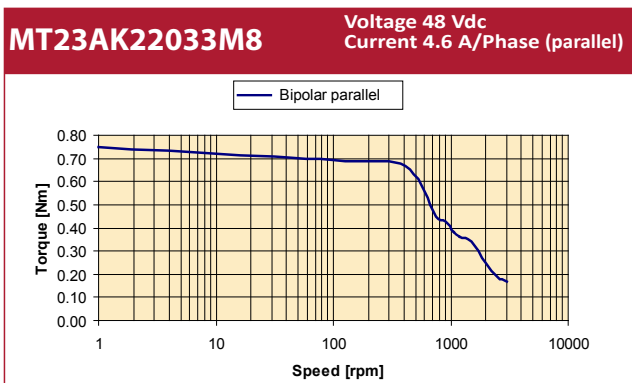
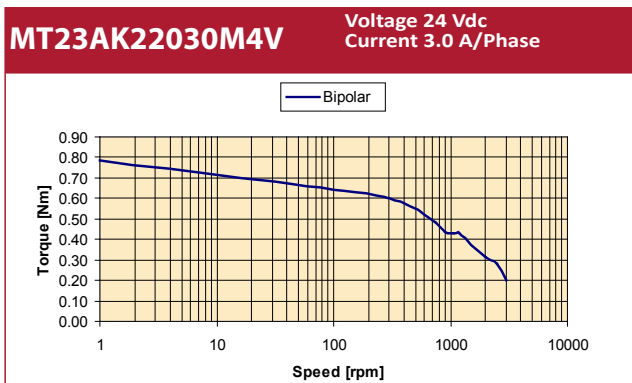
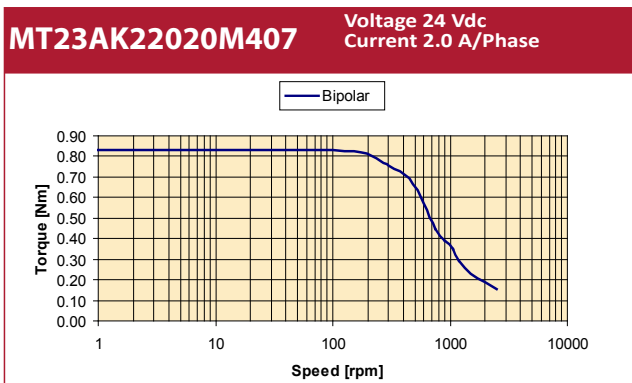
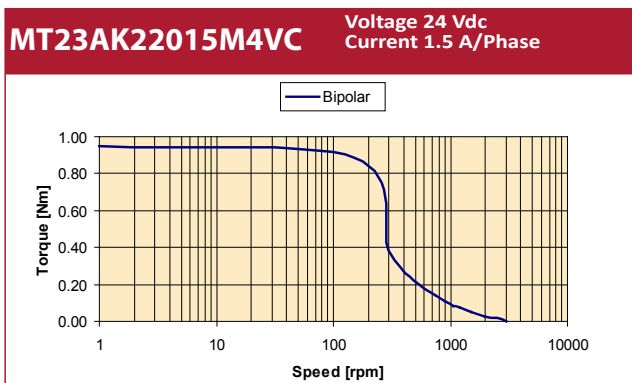
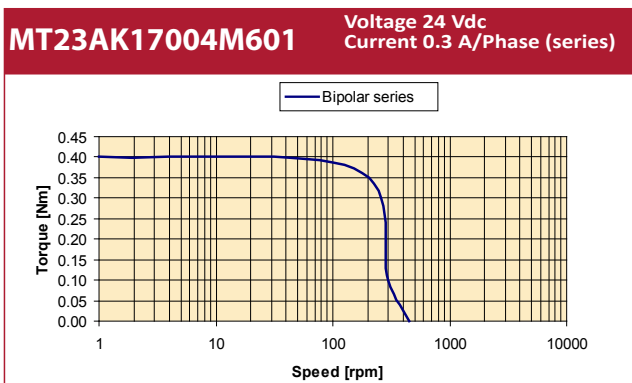
• Dimensions (Unit: mm)



• Wiring diagrams



• Torque curves



MT23FK / 1,8°

• General characteristics



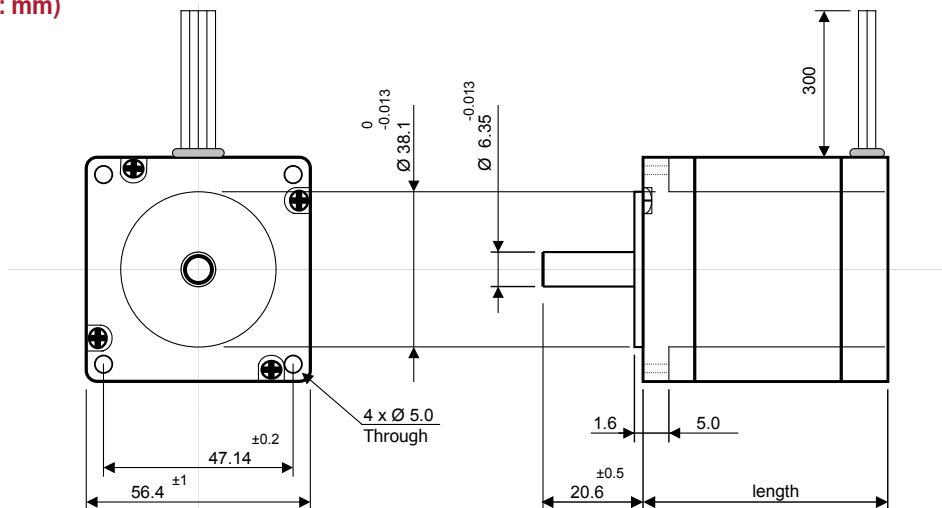
Step accuracy	±5%
Temperature rise	80° C max @ nominal current
Ambient temperature	-20° C ~ +50° C
Insulation resistance	100Mohm min. 500Vdc.
Dielectric strength	500Vac 1 minute
Insulation class	B, 120° C
Protection	IP30
Max radial force	75 N
Max axial force	15 N
Shaft radial play	0.02 max 450 g. load
Shaft axial play	0.08 max 450 g. load

• Specifications

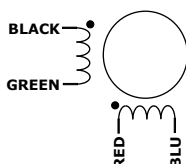
Model Code	Rated Voltage (V)	Phase Current (A)	Phase Resistance (ohm)	Phase Inductance (mH)	Holding Torque (Nm)	Detent Torque (Nm)	Rotor Inertia (g.cm ²)	Wires	Motor Length (mm)	Weight (Kg)	Special (see pag.4)
MT23FK17028M4	2.00	2.80	0.70	1.40	0.539	0.021	120	4	41.0	0.37	---
MT23FK20021B4	2.94	2.10	1.40	3.90	0.980	0.036	275	4	51.0	0.50	double shaft, 19.0 mm and Ø 6.35 mm
MT23FK22010M8G1	6.60	1.00	6.60	8.20	5.890*	0.040	275	8	51.0	0.65	with integrated gearbox 1:11 (length +32 mm)
MT23FK22033M8	2.27	3.30	0.69	1.20	1.269	0.040	300	8	56.0	0.70	---
MT23FK30028M4	3.20	2.80	1.13	3.60	1.890	0.068	480	4	76.0	1.00	---
MT23FK30030B4	2.58	3.00	1.00	4.00	1.890	0.068	480	4	76.0	1.00	double shaft 15.0 mm and Ø 6.35 mm
MT23FK30042M401	2.10	4.20	0.50	1.60	1.890	0.068	480	4	76.0	1.00	lead wires with tube

* Measured torque at the gearbox output

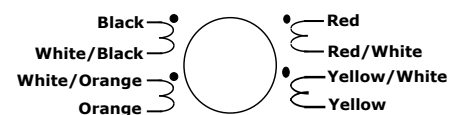
• Dimensions (Unit: mm)



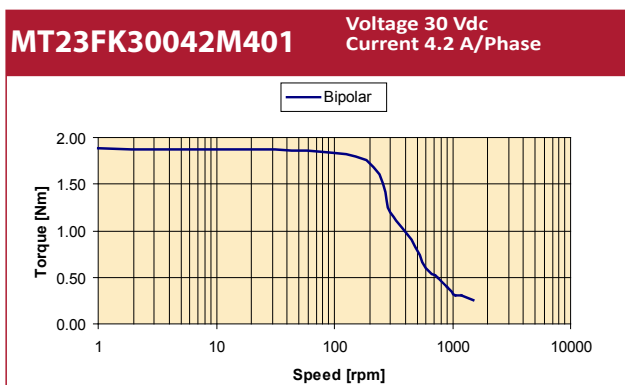
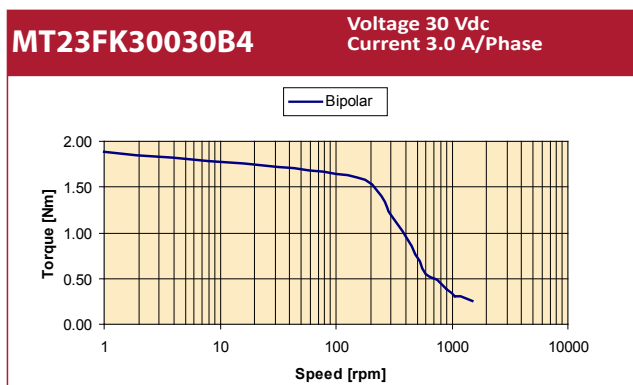
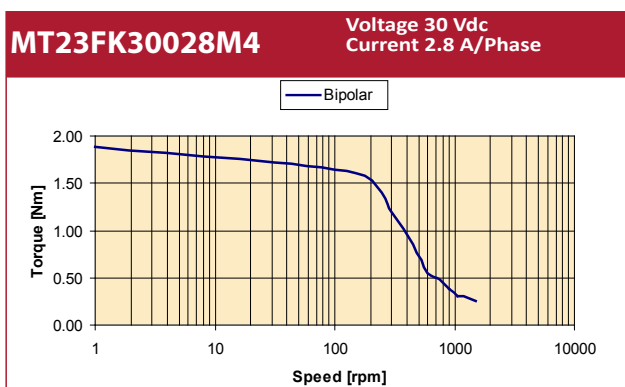
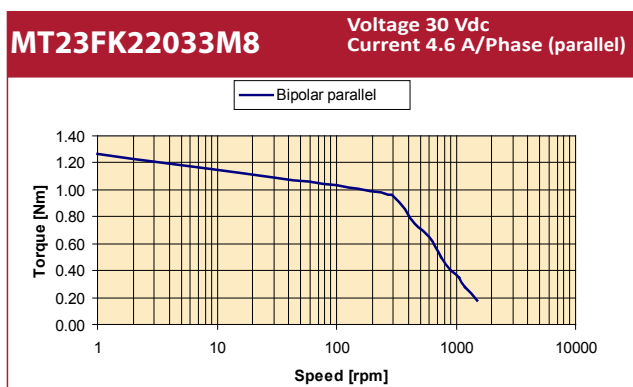
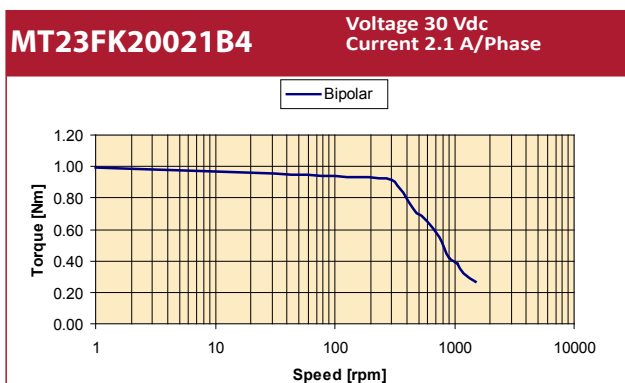
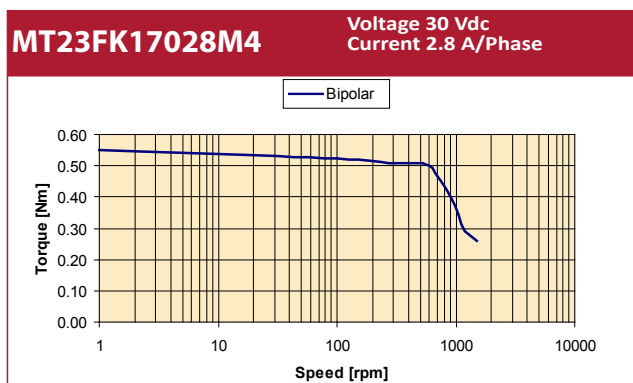
• Wiring diagrams



PHASE	A	A/	B	B/
LEAD COLOR	BLACK	GREEN	RED	BLUE



• Torque curves



MT23AL / 1,8°

• General characteristics

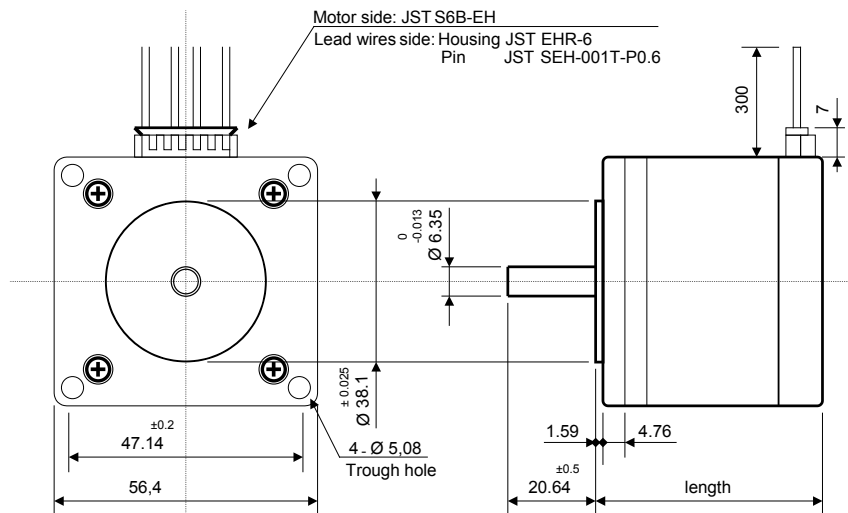


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Temperature rise	80° C max @ nominal current
Ambient temperature	-10° C ~ +50° C
Insulation resistance	100Mohm min. 500Vdc.
Dielectric strength	500Vac 1 minute
Insulation class	B, 120° C
Protection	IP30
Shaft radial play	20 µm max @450 g. load
Shaft axial play	80 µm max @450 g. load

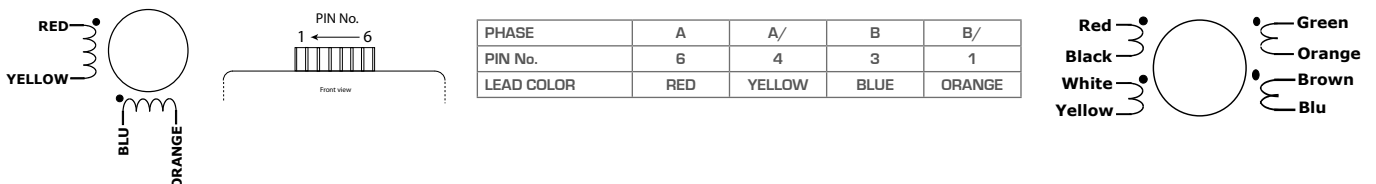
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MT23AL20010M816	5.30	1.00	5.30	9.40	0.657	0.054	120	8	49.5	0.45	no connector on board
MT23AL20014M451	3.50	1.40	2.50	9.40	0.490	--	110	4	49.5	0.45	special cable
MT23AL20020M436	2.40	2.00	1.20	5.30	0.509	--	110	4	49.5	0.45	no cable
MT23AL20030M401	1.65	3.00	0.55	1.70	0.686	--	110	4	49.5	0.45	no cable

• Dimensions (Unit: mm)



• Wiring diagrams



• Torque curves

