



Technical Specs STM Series

General Technical Data

Type		STM-5	STM-10	STM-20	STM-50	STM-100	STM-200
Rated Torque		5Nm	10Nm	20Nm	50Nm	100Nm	200Nm
Accuracy class		0.2	0.1	0.1	0.1	0.1	0.1
Linearity error including hysteresis	%of F.S.	<=0.1					
Repeatability	%	0.05					
Location of bearings		Two bearings on dyno side, no torque losses caused by bearing friction					
Save overload		300%					
Torque measuring system							
Frequency output	kHz	60 +/-20					
Voltage output	V	2.5 ±2.4					
Max. modulation range							
Frequency output	kHz	30-90					
Voltage output	V	0.1 - 4.9					
Dynamic							
Frequency output	kHz	≤3					
Voltage output (conversions per second)	1/s	> 15					
Power Supply							
Nominal supply	V (DC)	24 +/-1					
Input voltage range	V (DC)	10...33					
Max. current consumption in measuring mode	A	≤0.2					
Nominal power consumption	W	5					
Protection Class		IP 42					
Nominal temperature range	° C	0 to 50					
Operation temperature range	° C	-10 to 50					
Storage temperature range	° C	-20 to 85					
Humidity		< 80% rel					
Nominal Speed							
W/O high res. magnetic speed encoder W/O coupling	rpm	20000			16000		
In clusive metall bellows coupling (e.g R&W BKM 20 for all torque ranges)	rpm	20000	20000	20000	12000	12000	12000
In clusive rubber coupling (e.g NBK XGT2 34C/39C/44C)	rpm	20000	16000	14000/18Nm			
Pules per rev	ppr.	60					
Load limits The given values are only valid if none of others occur at the same time							
Limit torque, related to Mn	%	400	200	200	130	130	130
Breaking torque related to Mn approx.	%	600	300	300	200	200	200
Lateral limit force	N	32	32	66	269	540	976
Bending limit moment	Nm	1	1	2	8.9	18	32
Mechanical values							
Torsional stiffness	kNm/rad	1.95	1.95	3.69	14.1	33.6	60.1
Twist angle at Mn	degree	0.15	0.29	0.31	0.2	0.17	0.19
Balance quality-level to DIN ISO 1949		G 6.3					
Connector		DIN connector 12 pins					

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ATESTEO GmbH – Technical Specs

托驰（上海）工业传感器有限公司

电话：021-51069888

传真：021-51069009

13795220008 张工
zhang@yanatoo.com

13621609886 苏工
su@yanatoo.com

www.yanatoo.com