



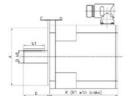


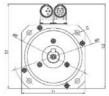
Contract nr. 125 / 2020, Project Code EUROSTARS-2019-E!12367-iTorque http://www.icpe.ro/itorque/

## BRUSHLESS SERVO-MOTORS WITH STATOR CORE MADE OF SEGMENTS

The electric servomotor type SBM is a permanent magnets brushless synchronous motor with cylindrical rotor. The stator core is made of segmented laminated teeth which allow high copper density and low cogging torque. They have a compact construction, low ripple torque, high efficency and high torque density.









Tip	Gabarit	A (j6)	В	С	D (k6)	E	F	н	к	K1	М	0	Р	R	T1	T2 (h9)	U (h9)	U1
SBM-121-110- 090	121	110	130	9	24	50	3,5	121	130	170	121	11	152	M8·20	27	3	8	40

Nr. Crt.	Parameter	Symbol	Unit	SBM-121-110-090-325A				
2.1.	Rated Power±10%	P <sub>n</sub>	kW	2.2				
2.2.	Rated Tortque ±10%	$M_n$	Nm	7*				
2.3.	Static torque ±10%	$M_0$	Nm	14*				
2.4.	Motor constant	$K_{\mathrm{M}}$	N/√W	1.38				
2.5.	Electric constant	$T_{\rm E}$	msec	6.56				
2.6.	Prazit torque	$M_p$	mNm	560				
2.7.	Inertia	J	kg·cm <sup>2</sup>	4				
2.8.	Weight	$W_t$	kg	7				
2.9.	Number of poles	$N_p$		10				
2.10.	Insulation class			F				
2.11.	Nominal voltage	Un	$V_{cc}$	325				
2.12.	Rated current ±10%	In	A	6.5				
2.13.	Static current ±10%	$I_0$	A	13				
2.14.	Peak torque	$M_{0\ max}$	Nm	56				
2.15.	Torque constant ±10%	K <sub>T</sub>	Nm/A	1.08				
2.16.	Voltage constant ±10%	$K_{\rm E}$	V/krpm	68				
2.17.	Rated speed ±10%	no	rpm	3000				
2.18.	Resistance ±8%	$R_{\rm L}$	Ω	0.61				
2.19.	Inductivity ±20%	$L_{L}$	mH	4				

