RDC 215

Direct Current Tachometer generator



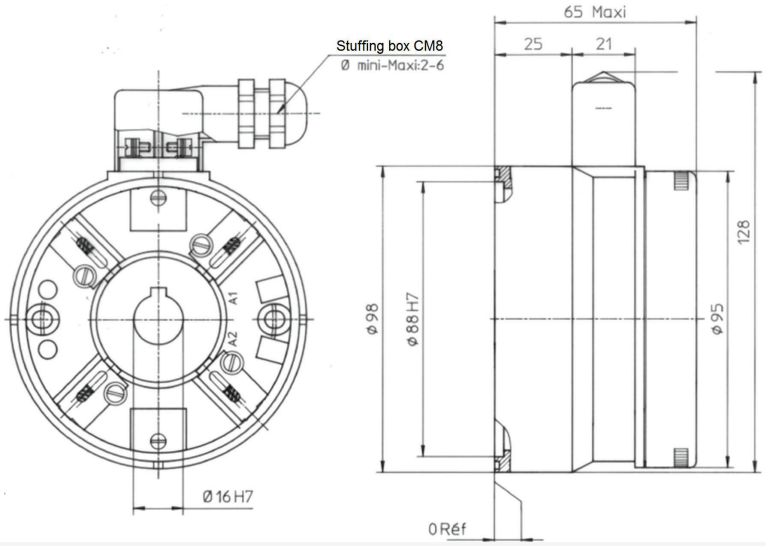
Applications :

- Industrial applications
- Machine tools

Description :

- Hollow shaft tachometer generator : rotor/stator set
- Permanent magnet excitation
- Commutator on opposite of mounting side
- Several options
- **SILVER COMMUTATOR**

DIAGRAM



MAIN CHARACTERISTICS

DESIGNATION	SYMB	VALUES
Max. speed (mechanical)	n_m	7500 rpm
Moment of inertia	J	1,8 km cm²
No load driving torque	Mr	≤ 0,5 N.cm
Maximum E.M.F	E_m	300 V
Maximum linearity error	AE	≤ 0,15 %E_T
Overall ripple rate (peak to peak)	ΔE_c	≤ 0,5 %E_c
Rotation harmonics (f=2 p.n)	ΔE_p	≤ 0,05 %E_c
Slot harmonics (f=Z.n)	ΔE_z	≤ 0,45 %E_c
Calibration precision	ΔE_o	±2%/E_{To}
E.M.F. tempetaure drift - not compensated - compensated	ΔE_e	0,03 % °C
Time constant	C_t	0,6 ms
Filter : Time constant of filter		0,1 ms
Load current		1,5 mA
Speed		3000 rpm

CONSTRUCTION DETAILS		
Number of poles	2p	4
Number of armature slots		33
Number of commutator blades		33
Insultation class		B (IEC 34-1)
Operating temperature		-20°C / +80 °C
Climatic protection		C_a (IEC 68-1)
Protection degree		IP 00 (IEC 34-5) IP 68 (DIN 40050)
Direction of rotation		reversible
Excitation : Aimants permanents		SmCo

Weight	**1,2 kg**

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MECHANICAL OPTIONS

ARMATURE BORE Ø d (mm)			MOTOR CENTERING END FRAME Ø D (mm)	ARMATURE CLAMPING DEVICE
Standard	Max.	Min.	Standard	
16^{H7}	16	8	88	Key or expanding device

OPTIONS

- No adaptation possible

AVAILABLES OPTIONS

- No adaptation possible



Markings and polarity of terminals (cables) for counter-clockwise rotation viewing the mounting face

A1 : +
A2 : -

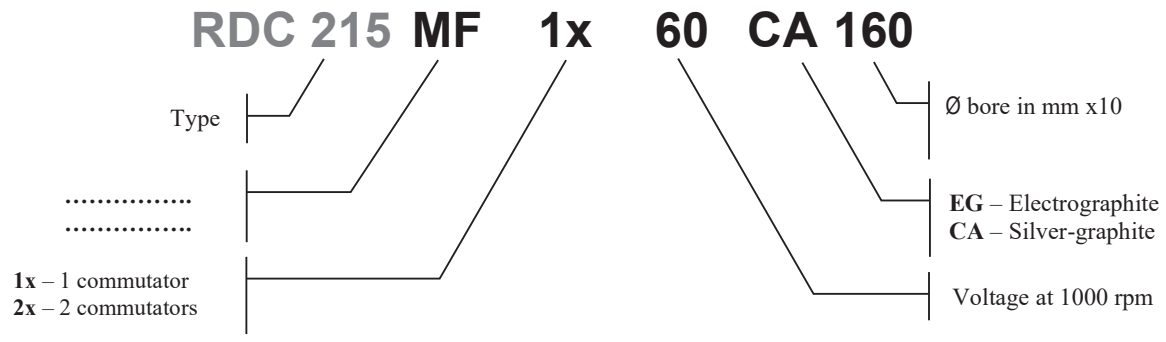
ELECTRICAL OPTIONS

DESCRIPTION	SYMB	UNIT	VALUES					
			Min.					Max.
E.M.F. at 1000 rpm	**E_n**	**V**	**10**	**20**	**30**	**40**	**50**	**60**
Voltage gradient	C_v	V/rpm	0,01	0,02	0,03	0,04	0,05	0,06
Armature resistance	R_a	Ω	5	24	36	62	97	130
Max termal load	I_{th}	mA	280	170	106	82	66	59
Max. allowed speed	n_a	rpm	7500	7500	7500	7500	6000	5000

BRUSHES

GRADE	CODE	APPLICATION LIMITS	DIMENSIONS	NUMBER
EG - Electrographite		Special applications, on request		4
CA – Silver-graphite		STANDARD for normal use at E.M.F < 300 v		

PRODUCT DESCRIPTION



When inquiring, please advise the serial number of the tachogenerator to be replaced.

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