

RDC 215

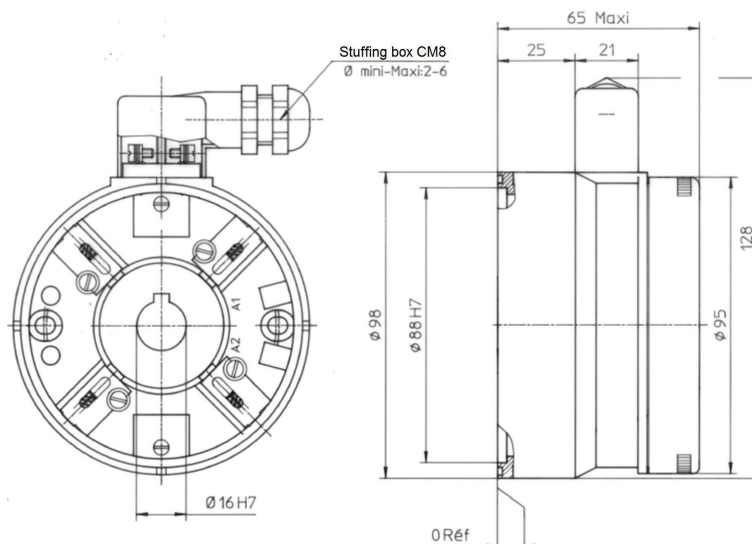
Direct Current Tachometer generator



- 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 cm ²
No load driving torque	M_r	$\leq 0,5$ N.cm
Maximum E.M.F	E_m	300 V
Maximum linearity error	ΔE	$\leq 0,15$ % E_T
Overall ripple rate (peak to peak)	ΔE_c	$\leq 0,5$ % E_c
Rotation harmonics (f=2 p.n)	ΔE_p	$\leq 0,05$ % E_c
Slot harmonics (f=Z.n)	ΔE_z	$\leq 0,45$ % E_c
Calibration precision	ΔE_o	± 2 % E_{T0}
E.M.F. tempetaure drift		
- not compensated	ΔE_c	0,03 % °C
- compensated		
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
Insulation 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			MOTOR CENTERING END FRAME		ARMATURE CLAMPING DEVICE
Standard	$\varnothing d$ (mm) Max.	Min.	$\varnothing D$ (mm) 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 : -

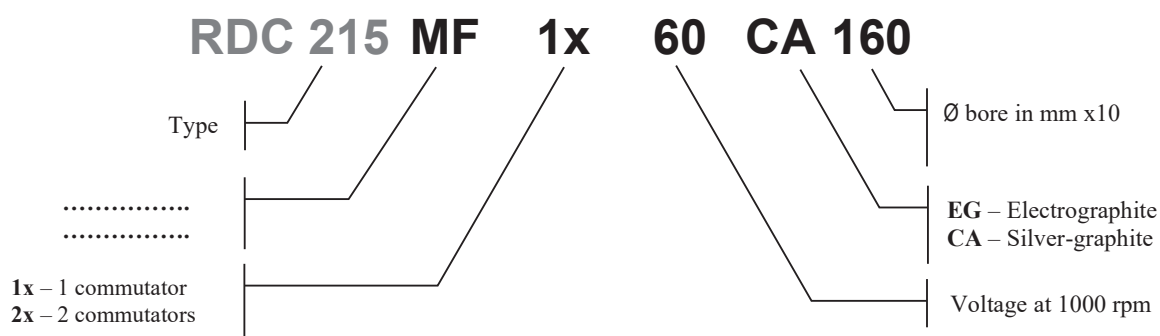
ELECTRICAL OPTIONS

DESCRIPTION	SYMB	UNIT	VALUES					
			Min.	10	20	30	40	50
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 thermal 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.