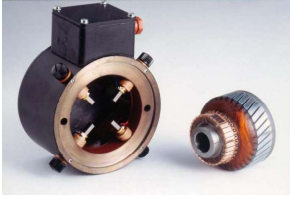
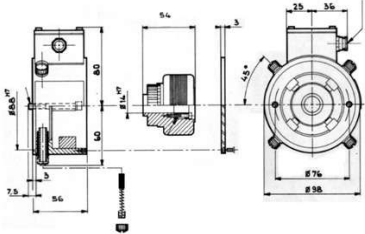


## Direct Current Tachometer generator



- Applications :**
- Industrial applications
  - Machine tools
  - Robots
- Description :**
- Hollow shaft tachometer generator : rotor/stator set
  - Permanent magnet excitation
  - Sturdy machine
  - Commutator on mounting side
  - Mounted on smooth shaft

### DIAGRAM



### MAIN CHARACTERISTICS

DESIGNATION	SYMB	VALUES	CONSTRUCTION DETAILS
Max. speed (mechanical)	$n_m$	7500 rpm	Number of poles 2p 4
Moment of inertia	J	1.8 km cm <sup>2</sup>	Number of armature slots 33
No load driving torque	$M_r$	0.5 N.cm	Number of commutator blades 33
Maximum E.M.F.	$E_m$	300 V	Insulation class B (IEC 34-1)
Maximum linearity error	$\Delta E$	$< 0.15 \% E_T$	Operating temperature $-20^{\circ}\text{C} / +110^{\circ}\text{C}$
Overall ripple rate (peak to peak)	$\Delta E_r$	$< 0.6 \% E_m$	Climatic protection C <sub>1</sub> (IEC 68-1)
Rotation harmonics (F=2 p.n)	$\Delta E_{2p}$	$< 0.05 \% E_m$	Protection degree IP44 (IEC 34-5)
Slot harmonics (F=Z.n)	$\Delta E_z$	$< 0.55 \% E_m$	Direction of rotation reversible
Calibration precision	$\Delta E_{c_0}$	$\pm 2 \% E_{T_0}$	Excitation : Aimants permanents Alnico
E.M.F. temperature drift - not compensated - compensated	$\Delta E_t$	0.005 % °C	
Time constant	$C_1$	0.7 ms	<b>Weight</b> 1.8 kg
Filter : Time constant of filter		0.1 ms	
Load current		1.5 mA	
Speed		3000 rpm	

### MECHANICAL OPTIONS

ARMATURE BORE Ø d (mm)		MOTOR CENTERING END FRAME Ø D (mm)	ARMATURE CLAMPING DEVICE
Standard 16"	Max. 16 Min. 14	Standard 68	Expanding device

- OPTIONS**
- No adaptation possible

- AVAILABLES OPTIONS**
- On request

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

A1 : +  
A2 : -

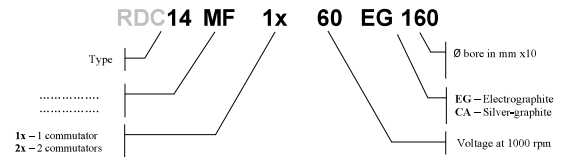
### ELECTRICAL OPTIONS

DESCRIPTION	SYMB	UNIT	VALUES					
			Min. 10	20	30	40	50	Max. 60
E.M.F. at 1000 rpm	$E_m$	V	0.01	0.02	0.03	0.04	0.05	0.06
Voltage gradient	$C_v$	V/rpm	8	33	73	130	200	290
Armature resistance	$R_a$	Ω	400	200	150	100	80	60
Max. terminal load	$I_m$	mA	7500	7500	7500	7500	6000	5000
Max. allowed speed	$n_s$	rpm						

### 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

## Direct Current Tachometer generator