RDC 14

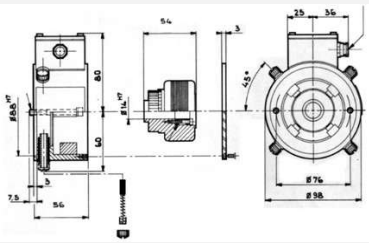
Direct Current Tachometer generator



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
Max. speed (mechanical)	n_m	7500 rpm
Moment of inertia	J	1,8 kgm 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	≤ 0,6 %E_c
Rotation harmonics (f=2 p.n)	ΔE_p	≤ 0,05 %E_c
Slot harmonics (f=Z.n)	ΔE_z	≤ 0,55 %E_c
Calibration precision	ΔE_o	±2%E_{To}
E.M.F. tempetaure drift - not compensated - compensated	ΔE_ε	0,005 % /°C
Time constant	C_t	0,7 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 / +110 °C
Climatic protection	C_4 (IEC 68-1)
Protection degree	IP44 (IEC 34-5)
Direction of rotation	reversible
Excitation : Aimants permanents	Alnico
Weight	**1,8 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	14	88	Expanding device

OPTIONS	AVAILABLES OPTIONS
• No adaptation possible	• On request

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

A1 : +
A2 : -

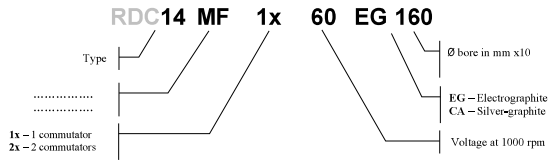
ELECTRICAL OPTIONS

DESCRIPTION	SYMB	UNIT	VALUES					
			Min.					Max.
E.M.F. at 1000 rpm	E_m	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	8	33	73	130	200	290
Max termal load	I_{th}	mA	400	200	150	100	80	60
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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