RE.0588

Direct Current Tachometer generator



Destination :

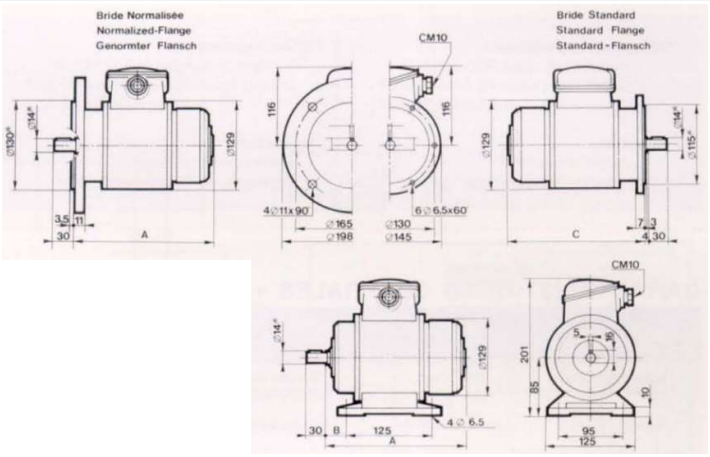
- Industrial applications
- Low speed use

Description :

- DC tachometer generator with low ripple
- Permanent magnet-excitation
- Terminal box
- Available with one or two commutators
- Many options

		1 commutator	2 commutators
A	**mm**	199	221
B	**mm**	27	49
C	**mm**	195	217

DIAGRAMS



MAIN CHARACTERISTICS

DESIGNATION	SYMB	VALUE
Max. speed	n_m	8 000 rpm
Moment of inertia	J	7.50 Kg cm²
No-load driving torque	Mr	4.50 N.cm
Max. radial shaft stress	F	3.0 da N
Maximum E.M.F.	E_m	600 V
Maximum linearity error	ΔE	$\leq$ 0,15 % E_T
Overall ripple rate (peak to peak)	ΔE_c	$\leq$ 0,4 % E_c
Rotation harmonics (f=2 p.n)	ΔE_p	$\leq$ 0,1 % E_c
Slots harmonics (f=Z.n.)	ΔE_z	$\leq$ 0,3 % E_c
Calibration precision	ΔE_o	± 1 % E_{To}
E.M.F. temperature drift Not compensated Compensated	ΔE_e	 - 0,005 %/°C
Time constant	C_t	7.5 ms
*Filter : Time constant		1 ms
Load current		5 mA
Speed		1 000 rpm

CONSTRUCTION DETAILS	
Number of poles	2
Armature slots number	29
Commutator blades number	87
Insulation class	B (IEC 34-1)
Operating temperature	-30 +130 °C
Climatic protection	C_a (IEC 68-1)
Ingress protection	IP54 (IEC 34-5)
Direction of rotation	reversible
Excitation: Permanent magnets:	Alnico
Weight	**7.9 kg** (1 commutator) **8.6 kg** (2 commutators)

CE

RADIO-ENERGIE SAS – 41 Route de Nonnes – F-86100 CHATELLERAULT – FRANCE – Tel : +33 5 49 21 76 22

MECHANICAL OPTIONS

	MOUNTING SIDE			OPPOSITE MOUNTING SIDE (upon request)		
	D (mm)	L (mm)	Bearings	D (mm)	L (mm)	Bearings
Standard	14	30	15 x 35 x 11 ZZ	14	30	15 x 35 x 11 ZZ
Max	14	-	15 x 35 x 11 ZZ	14	-	15 x 35 x 11 ZZ

Various adaptors available for mounting devices on the rear of the tachometer generator.



Markings and polarity of terminals (cables) for counter-clockwise rotation, seen from the shaft.

1 COMMUTATOR	2 COMMUTATORS
A1 : +	A1 : +
A2 : -	A2 : -

ELECTRICAL OPTIONS

DESCRIPTION	SYMB	UNIT		VALUES Min.										Max.
E.M.F. at 1 000 rpm	E_n	V	1 coll.	**30**	**60**	**100**	**110**	**120**	**150**	**200**	**300**	**600**	**700**	**1 000**
			2 coll.		2 x 60	2 x 100		2 x 120		2 x 200		2 x 600		
Voltage gradient	C_v	V/tr/mn	1 coll.	0,03	0, 06	0,10	0,11	0,12	0,15	0,20	0,30	0,60	0,70	1,00
			2 coll.		2 x 0,06	2 x 0,010		2 x 0,12		2 x 0,20		2 x 0,60		
Armature resistance	R_a	Ω	1 coll.	4	12	35	40	50	75	130	300	1 300	1 900	2 600
			2 coll.		2 x 25	2 x 80		2 x 100	2 x 300		2 x 1 700			
Max thermal load	I_{th}	A	1 coll.	1.80	0,90	0,55	0,45	0,45	0,35	0,30	0,18	0,09	0,07	0,06
			2 coll.		2 x 0,45	2 x 0,5		2 x 0,25		2 x 0,10		2 x 0,045		
Max. Allowed speed	n_a	Tr/mn	1 coll.	8 000	5 000	3 000	2 700	2 500	2 000	1 500	1 000	500	425	300
			2 coll.		5 000	3 000		2 500		1 500		500		

BRUSHES

GRADE	CODE	APPLICATION LIMITS	DIMENSIONS	NUMBER
EG – Electrographite		Recomended for high speed and E.M.F. < 300 V		4 or 8
CA – Silver-graphite		Standard F.E.M.		

PRODUCT DESCRIPTION

RE.0588 B C 1x60 CA IP54 14x30

- Type
- **B** – Flange
- **C** - T° compensation (optional)
- **1x** – 1 commutator
  2x – 2 commutators
- **14x30**– Standard shaft
- **IP54 -** Standard
- **EG** – Electrographite
  CA – Silver-graphite
- Voltage at 1000 rpm

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