RADIO-ENERGIE
The best signal since 1928

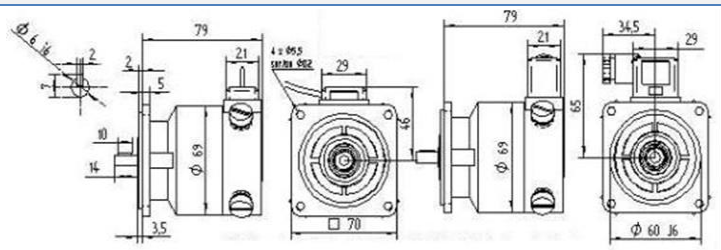
RE.0315 L

Direct Current Tachometer generator

Destination :
- Industrial applications
- Speed control and regulation

Description :
- New mechanical design with terminal box or cable
- Magnetic circuit designed for standard industrial applications
- Only with flange

DIAGRAM



MAIN CHARACTERISTICS

DESIGNATION	SYMB	VALUE
Max. speed (mechanical)	n_m	8 000 rpm
Moment of intertia	J	0.62 Kg cm²
No-load driving torque	Mr	0.4 N.cm
Max. radial shaft stress	F	0.3 (Ø 6)/1.0 (Ø 11) da N
Maximum E.M.F.	E_m	300 V
Maximum linearity error	ΔE	≤ 0,15 % E_T
Overall ripple rate (peak to peak)	ΔE_c	≤ 1 % E_c
Calibration precision	ΔE_o	±1.5 E_{To}
E.M.F. temp. drift - Not compensated - Compensated	ΔE_e	0.02 %/°C
Time constant	C_t	0.2 ms
*Filter: Time constant		1 ms
Load current		3 mA
Speed		3 000 rpm

CONSTRUCTION DETAILS	
Number of poles 2p	B (IEC 34-1)
Number of armature	-20/+80 °C
Number of collector blades	C_a (IEC 68-1)
Insultation class	IP 44 (IEC (34-5)
Direction of rotation:	reversible
Excitation: permanent magnets:	Alnico

Weight:	**1 kg**

MECHANICAL OPTIONS

Shaft ends and bearings

	MOUNTING SIDE			OPPOSITE MOUNTING SIDE
	D (mm)	L (mm)	Bearings	Bearings
Standard	6	14	12 x 28 x 8 ZZ	8 x 22 x 7 ZZ
Max	11	30	12 x 28 x 8 ZZ	8 x 22 x 7 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.

A1 : +
A2 : -

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ELECTRIAL OPTIONS

DESCRIPTION	SYMB	UNIT	VALUES						
			Min.						Max.
E.M.F. at 1 000 rpm	E_n	**V**	**7**	**10**	**20**	**30**	**40**	**50**	**60**
Voltage gradient	C_v	V/rpm	0.007	0.010	0.020	0.030	0.040	0.050	0.060
Armature resistance	R_a	Ω	2.20	5	28	45	70	100	180
Max. thermal load	I_{th}	A	0.50	0.55	0.35	0.25	0.22	0.18	0.14
Max. allowed speed	n_a	Rpm	8 000	8 000	8 000	8 000	7 500	6 000	5 000

BRUSHES

GRADE	CODE	APPLICATION LIMITS	DIMENSIONS	NUMBER
CA – Silver-graphite		300 V	6 x 4 x 13 mm	4

PRODUCT DESCRIPTION

RE.0315L B 1x60 CA IP44 6x14

- Type
- **B** – Flange
- **1x** – 1 commutator
- Voltage at 1000 rpm
- **CA** – Silver-graphite
- **IP44** - Standard
- **6x14** - Standard shaft
- **11x30** – Special shaft

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

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