RADIO-ENERGIE
The best signal since 1928

RE.0444 NV

Direct Current Tachometer generator

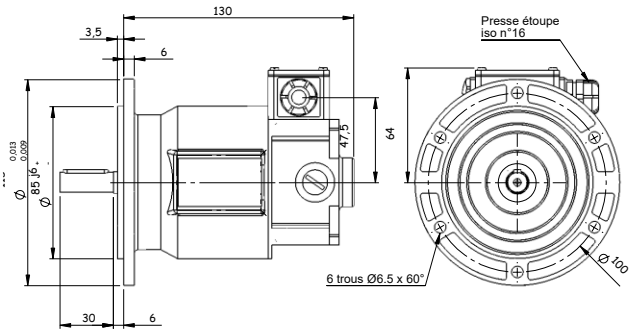
Application :

- Industry
- Speed control & regulation

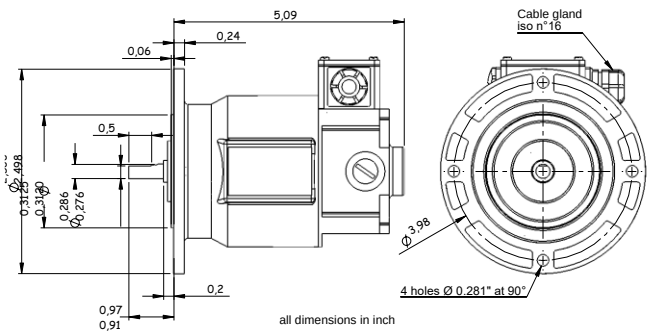
Description :

- Magnetic circuit intended for standard industrial applications
- Flange mounting only
- Available with temperature compensation

RE.0444 NV – B5 flange



RE.0444 NV – US flange



MAIN CHARACTERISTICS

DESIGNATION	SYMB	VALUE
Max. speed	n_m	12 000 rpm
Moment of inertia	J	0.95 Kg cm²
No-load driving torque	Mr	1.5 N.cm
Max. radial shaft stress	F	0.4 (∅7) / 1.0 (∅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	≤ 0.5 %E_c
Rotation harmonics (f=2 p.n)	ΔE_p	≤ 0.2 %E_c
Slots harmonics (f=Z.n.)	ΔE_z	≤ 0.3 %E_c
Calibration precision	ΔE_o	+ 1 %E_{To}
E.M.F. temperature drift Not compensated Compensated	ΔE_e	 0.02 %/°C 0.005 %/°C
Time constant	C_t	2.5 ms
*Filter: Time constant		0.47 ms
Load current		5 mA
Speed		3 000 rpm

CONSTRUCTION DETAILS	
Insulation class	B (IEC 34-1)
Operating temperature	-30 / +130 °C
Climatic protection	C_a (IEC 68-1)
Ingress protection	IP44 (IEC 34-5)
Direction of rotation	reversible
Excitation: Permanent magnets	SmCo

Net weight	**1.8 kg**

We deserve the right to modify technical features in the interest of technological advance.

RADIO-ENERGIE

The best signal since 1928

RE.0444 NV

Direct Current Tachometer generator

MECHANICAL OPTIONS

Shaft ends and bearings

	MOUNTING SIDE					OPPOSITE MOUNTING SIDE
	D (mm)	L (mm)	F (mm)	GA (mm)	Bearings	Bearings
RE.0444 NV standard	11	30	4	12.5	12 x 28 x 8 ZZ	8 x 22 x 7 ZZ
RE.0444 NV	7	30	2	8	12 x 28 x 8 ZZ	8 x 22 x 7 ZZ
RE.0444 NV – US version					12 x 28 x 8 ZZ	8 x 22 x 7 ZZ

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

A1 : +
A2 : -

ELECTRICAL OPTIONS

DESCRIPTION	SYMB	UNIT	VALUES				
			Min.				Max.
Voltage at 1 000 rpm	**E_n**	**V**	**20**	**40**	**50**	**60**	**100**
Voltage gradient	C_v	V / rpm	0.02	0.04	0.05	0.06	0.10
Armature resistance	R_a	Ω	12	45	70	100	280
Max thermal load	I_{th}	A	0.55	0.25	0.22	0.18	0.11
Max. Allowed speed	n_a	rpm	12 000	7 500	6 000	5 000	3 000

BRUSHES

GRADE	CODE	DOMAINE D'UTILISATION	DIMENSIONS	NUMBER
Silver-graphite	/0001397	300 V max	3,1 x 4,1 x 10 mm	4

PRODUCT DESCRIPTION

RE.0444NV B C 1X60 CA IP44 11X30

- Type
- **B** – Flange
- **C** - T° compensation (optional)
- **1x** – 1 commutator
- **11x30**– Standard shaft
- **IP44** - Standard
- **EG** – Electrographite
  CA – Silver-graphite
- Voltage at 1000 rpm

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

RADIO-ENERGIE
Route de Nonnes-86100 CHATELLERAULT – FRANCE – Tel : +33 5 49 21 76 22 – Fax : +33 5 49 93 26 79
www.radio-energie.eu
Société par Actions Simplifiée au capital de 300 000 Euros immatriculée au RCS de Poitiers sous n° 829 195 668
TVA intracommunautaire : FR94829195668
Code APE 2711Z

We deserve the right to modify technical features in the interest of technological advance.