

RE.0444L - Light

Direct Current Tachometer generator

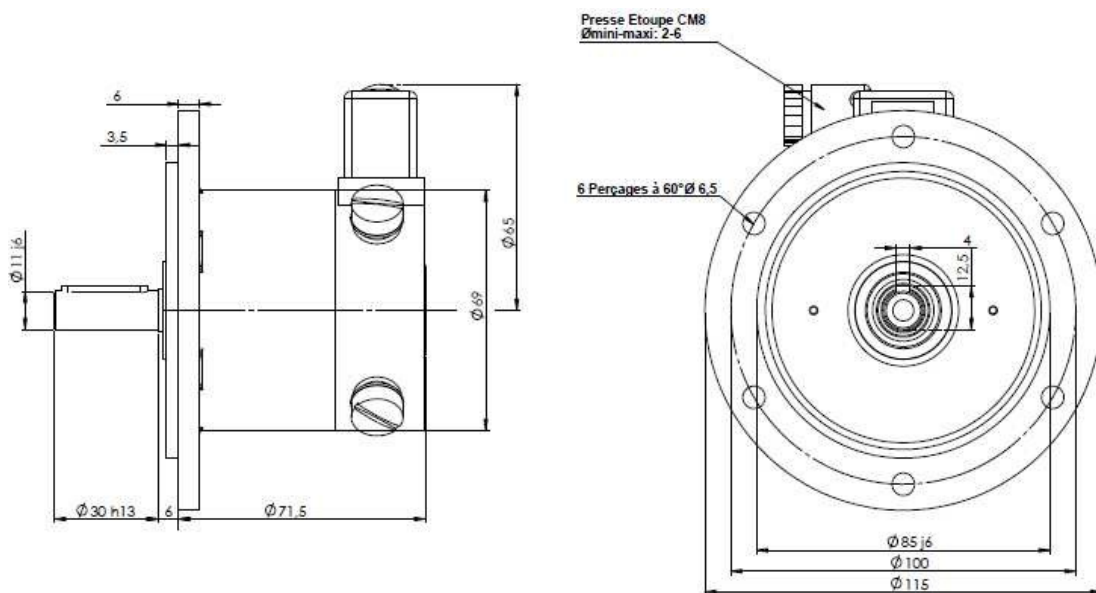


Applications : Industry
Speed control & regulation

Features : Compact design
Good quality signal
DIN connector



MOUNTING FORM



MAIN CHARACTERISTICS

DESCRIPTION	SYMB	VALUE	CONSTRUCTION DETAILS	
Max. speed	n_m	8 000 rpm	Number of poles	4
Moment of inertia	J	0,62 Kg cm ²	Armature slots number	33
No-load driving torque	Mr	0,4 N.cm	Commutator blades number	33
Max. radial shaft stress			Insulation class	B (IEC 34-1)
7x30 mm	F	0,4 da N	Operating temperature	-20 +80 °C
11x30 mm	F	1,0 da N	Climatic protection	C _a (IEC 68-1)
Maximum E.M.F.	E_m	300 V	Ingress protection	IP44 (IEC 34-5)
Maximum linearity error	E	$\leq 0,15 \% E_T$	Direction of rotation	reversible
Overall ripple rate (peak to peak)	E_c	$\leq 1 \% E_c$	Excitation	Permanent magnets - Samarium cobalt
Rotation harmonics (f=2 p.n)	E_p	$\leq 0,3 \% E_c$		
Slots harmonics (f=Z.n.)	E_z	$\leq 0,7 \% E_c$		
Calibration precision	E_o	$\pm 1,5 \% E_{T0}$		
E.M.F. temperature drift	E_e	0,03 %/°C		
Time constant	C_t	0,2 ms		
Filter :				
Time constant of filter		1 ms		
Load current	L_c	3 mA		
Speed	n	3000 rpm		
			Weight	1 kg



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MECHANICAL OPTIONS

	MOUNTING SIDE		
	D (mm)	L (mm)	Ball-bearing
Standard shaft	7	30	8 x 22 x 7 ZZ
	11	30	12 x 28 x 8 ZZ
Special shaft	14 max	30	15 x 32 x 9 ZZ



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

A1 : +

A2 : -

ELECTRICAL OPTIONS

DESCRIPTION	SYMB	UNIT	VALUES
E.M.F at 1 000 rpm	E_n	V	60
Voltage gradient	C_v	V/rpm	0,06
Armature resistance	R_a		160
Max thermal load	I_{th}	A	0,1
Max. Allowed speed	n_a	rpm	EG brushes 5000 CA brushes 5000

BRUSHES

GRADE	PART NO	MAX OUTPUT VOLTAGE	DIMENSIONS	QUANTITY
EG - Electrographite	/0011987	< 300 V	6 x 4 x 9,9 mm	4
CA - Silver-graphite	/0003341			

PRODUCT DESCRIPTION

	RE.0444L	B	1X60	EG	IP44	11X30
Type						
Flange (B5)						11X30 – Standard shaft 7X30 – Standard shaft
1X – 1 commutator						IP44 - Standard IP56 - Optional
Voltage at 1000 rpm				EG – Electrographite brushes CA – Silver-graphite brushes		

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