

RE.0588 SR

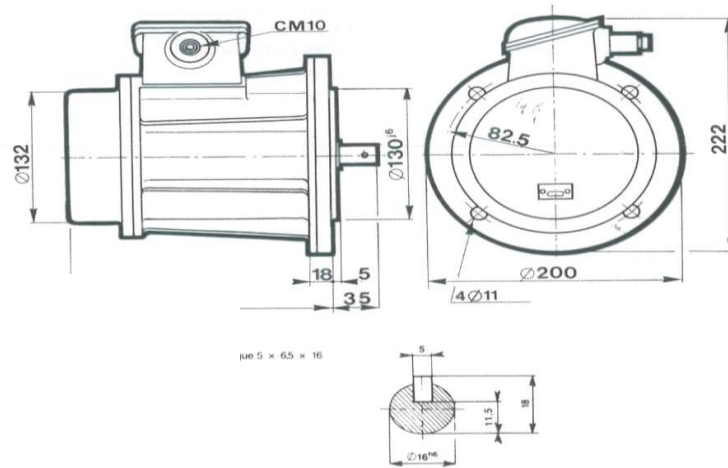


Destination : • Railway or severe industrial applications

Description : • This model is derived from our DC tachometer RE.0588
• Mechanically reinforced tight and rugged model
• Only with flange and one commutator

Weight	Kg	8
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SCHEMAS



GENERAL DATA

DESIGNATION	SYMB	VALUE	CONSTRUCTION DETAILS	
Max.speed (mechanical)	n_m	4 000 rpm	Number of poles	2p / 2
Moment of inertia	J	7.50 Kg cm ²	Number of armature slots	29
No load driving torque	M_r	4.50 N.cm	Number of commutator blades	87
Max. radial shaft stress	F	3.0 da N	Insulation class	B (IEC 34-1)
Maximum E.F.M	E_m	600 V	Operating temperature	-30 +130 °C
Maximum linearity error	ΔE	$\leq 0,15 \% E_T$	Climatic protection	C _a (IEC 68-1)
Overall ripple rate (peak to peak)	ΔE_c	$\leq 0,4 \% E_c$	Protection degree	IP56 (IEC 34-5)
Rotation harmonics (f=2 p.n)	ΔE_p	$\leq 0,1 \% E_c$	Direction of rotation	réversible
Slot harmonics (f=Z.n.)	ΔE_z	$\leq 0,3 \% E_c$	Excitation : Permanent magnets	Alnico
Calibration precision	ΔE_o	$\pm 0,1 \% E_{T_o}$		
E.F.M temp. drift	ΔE_e	-		
• Not compensated		0,005 %/°C		
• Compensated				
Time constant	C_t	7,5 ms		
*Filter: Time constant of filter		1 ms		
Load current		5 mA		
Speed		1 000 rpm		





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MECHANICAL OPTIONS

Shaft ends and bearings

	MOUNTING SIDE			OPPOSITE MOUNTING SIDE		
	D (mm)	L (mm)	Bearings	D (mm)	L (mm)	Bearings
Standard	16	30	20 x 52 x 15 ZZ	11	30	12 x 32 x 10 ZZ
Max	16	-	20 x 52 x 15 ZZ	11	-	12 x 32 x 10 ZZ

Brides spéciales et divers adaptateurs disponibles pour le montage d'appareils complémentaires.

Options

- Other shaft ends

Available options on 2nd SHAFT END

- No adaptation possible

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

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

ELETRICAL OPTIONS

DESCRIPTION	SYMB	UNIT		VALUE								
				Min.								Max.
E.F.M at 1000 rpm	E _n	V	1 coll.	30	60	100	110	120	150	200	300	600
Voltage gradient	C _v	V/rpm	1 coll.	0,03	0,06	0,10	0,11	0,12	0,15	0,20	0,30	0,60
Armature resistance	R _a	Ω	1 coll.	4	12	35	40	50	75	130	300	1 300
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
Max. allowed speed	n _a	rpm	1 coll.	4 000	4 000	3 000	2 700	2 500	2 000	1 500	1 000	500

BRUSHES

GRADE	REF	APPLICATION LIMITS	SIZES	NUMBER
EG - Electrographite	31-41-EG	Recommended for high speed and E.M.F < 300 V	3,1 x 4,1 x 10 mm	4 ou 8 or - oder
CA - Silver-graphite	31-41-CA	Standard for normal use at E.M.F < 300 V		