

RE.0588 MF



Destination :

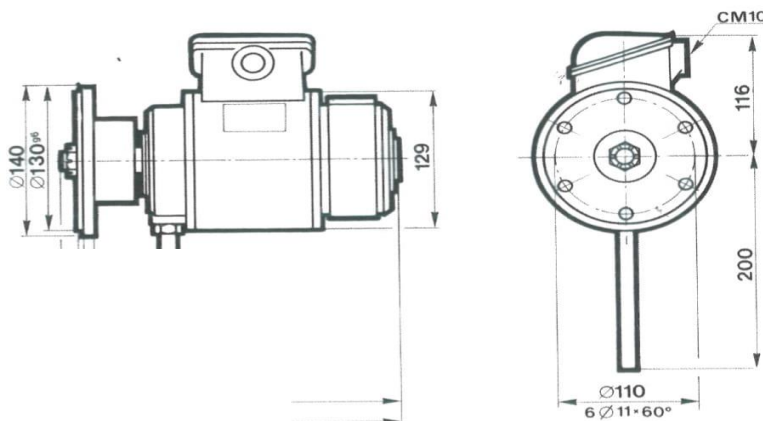
- Heavy industrial applications
- Low speed

Description :

- Derived from our DC tacho RE.0588
- Mechanically reinforced
- Direct mounting on shaft end

		1 communator	2 communator
A	mm	258	291
B	mm	247	280
Weight	kg	8,2	9

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	Mr	4.50 N.cm	Number of communator blades	87
Max. radial shaft stress	F	3.0 da N	Insulation class	B (IEC 34-1)
Maximum E.M.F	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	IP54 (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: Permanents magnets	Alnico
Calibration precision	ΔE_0	$\pm 1 \% E_{T0}$		
E.M.F temp. drift				
- not compensated	ΔE_e	-		
- compensated		0,005		
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	-	-	25 x 52 x 15 ZZ	14	30	15 x 35 x 11 ZZ
Max	-	-		14	-	15 x 35 x 11 ZZ

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

Option

- Different plate couplings

Available options on 2nd SHAFT END

- DC-tacho RE.0444 R
- High frequency electromagnetic generator
- Encoder
- Centrifugal switch

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

1 COMMUNATOR

A1 : +
A2 : -

2 COMMUNATOR

A1 : +
A2 : -

ELECTRIC OPTIONS

DESCRIPTION	SYMB	UNIT	VALUE								
			Min.								Max.
E.M.F at 1000 rpm	E _n	V	1 coll.	30	60	100	110	120	150	200	300
			2 coll.								
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
			2 coll.								
Armatur resistance	R _a	Ω	1 coll.	4	12	35	40	50	75	130	300
			2 coll.								
Max. thermal load	I _{th}	A	1 coll.	1,80	0,90	0,55	0,45	0,45	0,35	0,30	0,18
			2 coll.								
Max. allowed speed	n _a	Tr/mn	1 coll.	4 000	4 000	3 000	2 700	2 500	2 000	1 500	
			2 coll.								

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		