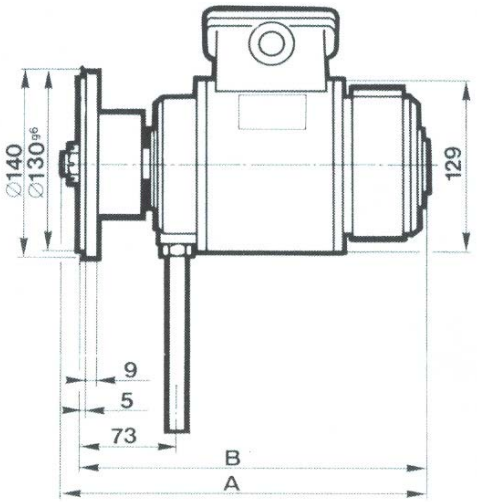
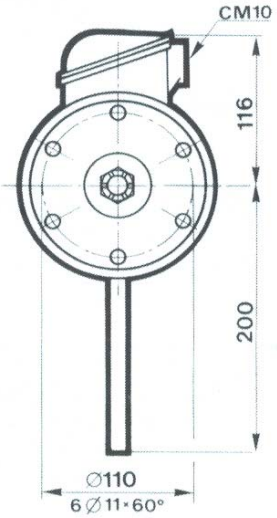
TYPE

RE.0588 MF

DESTINATION
- Heavy industrial applications
- Low speed

DISCRIPTION
- Derived from our dc tacho RE.0 588
- Mechanically reinforced
- Direct mounting on the shaft end





	1 collector	2 collectors
A	258	291
B	247	280
Weight kg	8,2	9

GENERAL DATA

Designation	Symbol	Unit	Value	
Maximum speed (mechanical)	n_m	rpm.	4000	
Moment of inertia	J	kg cm²	7,50	
No load driving torque	Mr	N.cm	4,50	
Maximum radial shaft stress	F	da N	3,0	
Maximum E.M.F.	E_m	V	600	
Maximum linearity error	ΔE	% E_T	≤ 0,15	
Overall ripple rate (peak to peak)	ΔE_C	% E_C	≤ 0,4	
Rotation harmonics (f = 2 p.n)	ΔE_P	% E_C	≤ 0,1	
Slot harmonics (f = Z.n)	ΔE_Z	% E_C	≤ 0,3	
Calibration precision	ΔE_O	% E_{To}	± 1	
E.M.F. temperature drift - not compensated - compensated	ΔE_e	%/°C	- 0,005	
Time constant	C_t	ms	7,5	
Time constant *Filter: Load current Speed	R_F x R_C I_C n	ms mA rpm.	1 5 1000	

Construction details		
Number of poles	2p	2
Number of armature slots	Z	29
Number of collector blades	K	87
Insulation class		B (IEC 34-1)
Operating temperature		-30° - +130 °C
Climatic protection		C_a (IEC 68-1)
Protection degree		IP 54 (IEC 34-5)
Direction of rotation		Reversible
Excitation		Permanent magnets Alnico

* Filter-connecting diagram on demand

Rev. 01

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

DESTINATION
- Heavy industrial applications
- Low speed

DISCRIPTION
- Derived from our dc tacho RE.0 588
- Mechanically reinforced
- Direct mounting on the shaft end

TYPE RE.0588 MF

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

Options

- different plate couplings

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

1 collector		A1 : +	A2 : -
2 collectors	1. collector 2. collector	1A1: + 2A1: +	1A2: - 2A2: -

Available options on 2nd shaft end

- dc-tacho RE.0 444 R
- high frenquency electromagnetic generator
- encoder
- centrifugal switch

Electrical options

				Min.							Max.			
E.M.F. at 1000 rpm.	E_n	V	1 coll. 2 coll.	30	60	100	110	120	150	200	300 2 x 300			
Voltage gradient	C_v	V/rpm	1 coll. 2 coll.	0,03	0,06	0,10	0,11	0,12	0,15	0,20	0,30 2 x 0,30			
Armature resistance	R_a	Ω	1 coll. 2 coll.	4	12	35	40	50	75	130	300 660			
Max. thermal load	I_{th}	A	1 coll. 2 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. 2 coll.	4000	4000	3000	2700	2500	2000	1500	1000			

Brushes

Number	Size	Grade	Application limits	Reference
4 or 8	3,1 x 4,1 x 12,5	Electrographite (EG)	Recommended for high speed and E.M.F. > 300 V	31 - 41 - EG
		Silver-graphite (CA)	**STANDARD** for normal use at E.M.F. < 300 V	31 - 41 - CA

Rev.:01

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