

TYPE

RE.0588 SR

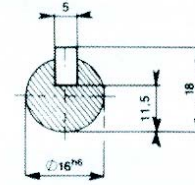
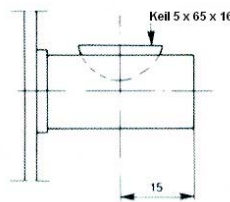
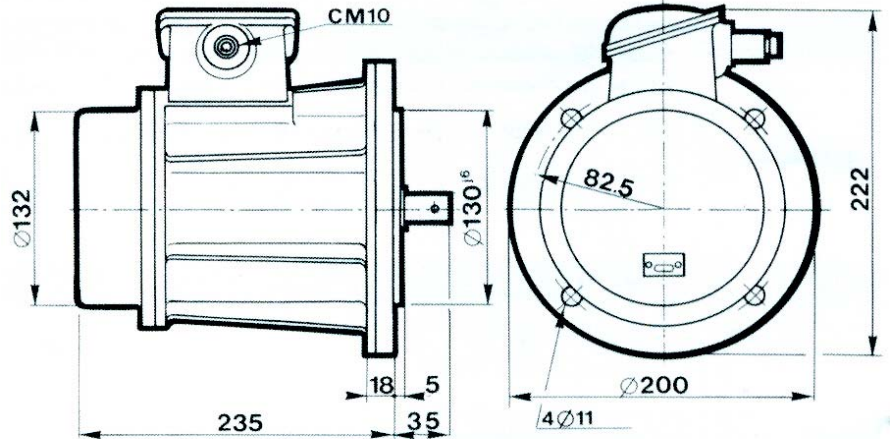
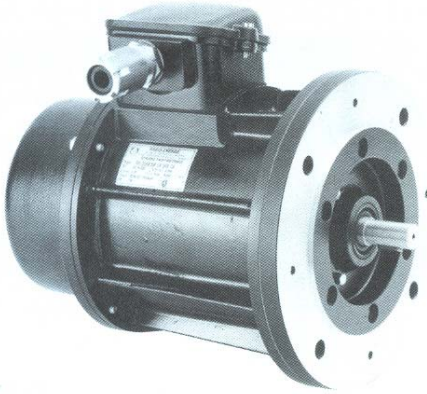


DESTINATION

- Railway or severe industrial applications

DISCRIPTION

- This model is derived from our DC tachometer RE.0 588
- Mechanically reinforced tight and rugged model
- Only with flange and one commutator



Weight	kg	8,0
--------	----	-----

GENERAL DATA

Designation	Symbol	Unit	Value	
Maximum speed (mechanical)	n_m	rpm.	4000	
Moment of inertia	J	kg cm ²	7,50	
No load driving torque	M_r	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	$\leq 0,15$	
Overall ripple rate (peak to peak)	ΔE_C	% E_C	$\leq 0,4$	
Rotation harmonics (f = 2 p.n)	ΔE_P	% E_C	$\leq 0,1$	
Slot harmonics (f = Z.n)	ΔE_Z	% E_C	$\leq 0,3$	
Calibration precision	ΔE_O	% E_{T0}	± 1	
E.M.F. temperature drift - not compensated - compensated	ΔE_e	%/°C	- 0,005	
Time constant	C_t	ms	7,5	
*Filter:				
Time constant	$R_F \times R_C$	ms	1	
Load current	I_c	mA	5	
Speed	n	rpm.	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 56 (IEC 34-5)
Direction of rotation		Reversible
Excitation		Permanent magnets Alnico

* Filter-connecting diagram on demand

DESTINATION

- Railway or severe industrial applications

DISCRIPTION

- This model is derived from our DC tacho RE.0 588
- Mechanically reinforced tight and rugged model
- Only with flange and one commutator

TYPE
RE.0588 SR

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

Options

- other shaft ends

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

1 collector

A1 : +

A2 : -

Available options on 2nd shaft end

- no adaptation possible

Electrical options

				Min.								Max.		
E.M.F. 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	1300		
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.	4000	4000	3000	2700	2500	2000	1500	1000	500		

Brushes

Number	Size	Grade	Application limits	Reference
4	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