

TYPE

RE.0588 GB

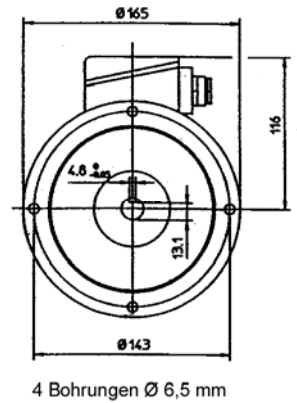
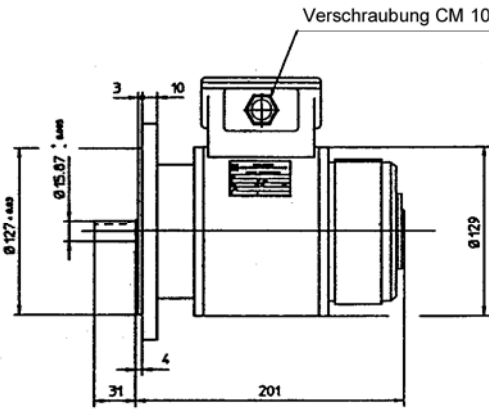


DESTINATION

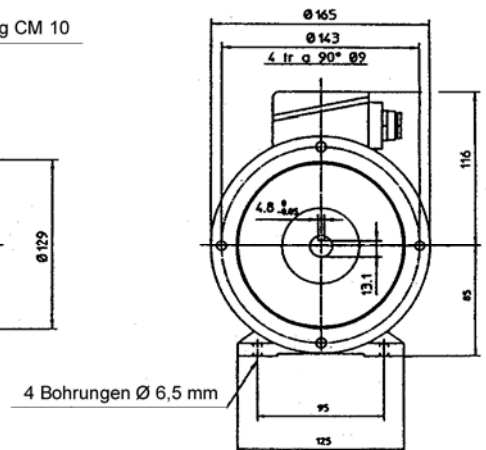
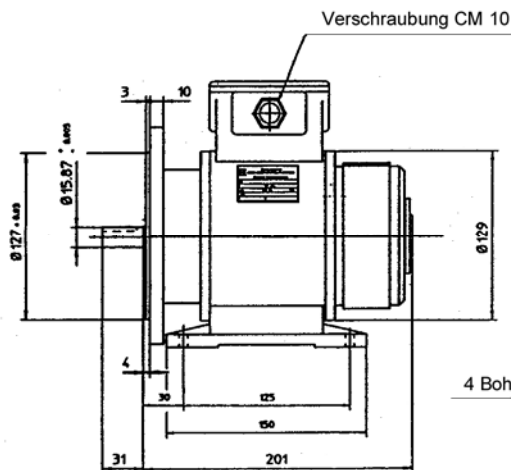
- Industrial Applications
- Low speed use

DISCRIPTION

- DC tachometer generator with low ripple
- Permanent magnet excitation
- Terminal box
- Available with one and two commutators
- Temperature compensation as standard
- Flange or foot -/ flange mounting „Great Britain“



	1 collector	2 collectors
Weight kg	8,7	9,4



GENERAL DATA

Designation	Symbol	Unit	Value
Maximum speed (mechanical)	n_m	rpm	8000
Moment of inertia	J	kg cm ²	7,5
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}	$\pm 1,0$
E.M.F. temperature drift - not compensated - compensated	ΔE_e	% /°C	- 0,005
Time constant	C_t	ms	7,5

Construction details	
Number of poles	2
Number of armature slots	29
Number of collector blades	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

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

*Filter:	Time constant Load current Speed	RF x CF I _c n	ms mA rpm	1 5 3000	
----------	--	--------------------------------	-----------------	----------------	--

Rev.: 02

* Filter-connecting diagram on demand

DESTINATION

- Industrial Applications
- Low speed use

DISCRIPTION

- < GB > industrial standards: flange, foot, flange and foot mounting
- Low ripple rate
- Temperature compensation as standard

TYPE
RE.0588 GB

Mechanical options

Shaft ends and bearings

	Mounting side			Opposite mounting side		
	D (mm)	L (mm)	Bearings	D (mm)	L (mm)	Bearings
Standard	15,87	30	17 x 35 x 11 ZZ	14	30	15 x 35 x 11 ZZ
Max.	15,87	-	17 x 35 x 11 ZZ	15,87	-	17 x 35 x 11 ZZ

Options

- model with 2 collectors
- 2nd shaft end
- sealing ring (IP 56)

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

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

Available options on 2nd shaft end

Electrical options

				Min.		Max.								
E.M.F. at 1000 rpm.	E_n	V	1 coll. 2 coll.	60 2 x 60	100 2 x 100	200 2 x 200								
Voltage gradient	C_v	V/rpm	1 coll. 2 coll.	0,06 2 x 0,06	0,10 2 x 0,10	0,20 2 x 0,20								
Armature resistance	R_a	Ω	1 coll. 2 coll.	12 2 x 25	35 2 x 80	130 2 x 300								
Max. thermal load	I_{th}	A	1 coll. 2 coll.	0,90 2 x 0,45	0,55 2 x 0,25	0,30 2 x 0,10								
Max. allowed speed	n_a	rpm	1 coll. 2 coll.	5000 5000	3000 3000	1500 1500								

Brushes

Number	Size	Grade	Application limits	Reference
4 or 8	3,1 x 4,1 x 12,5	Electro graphite (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