

TYPE

RE.0315 L



**DESTINATION**

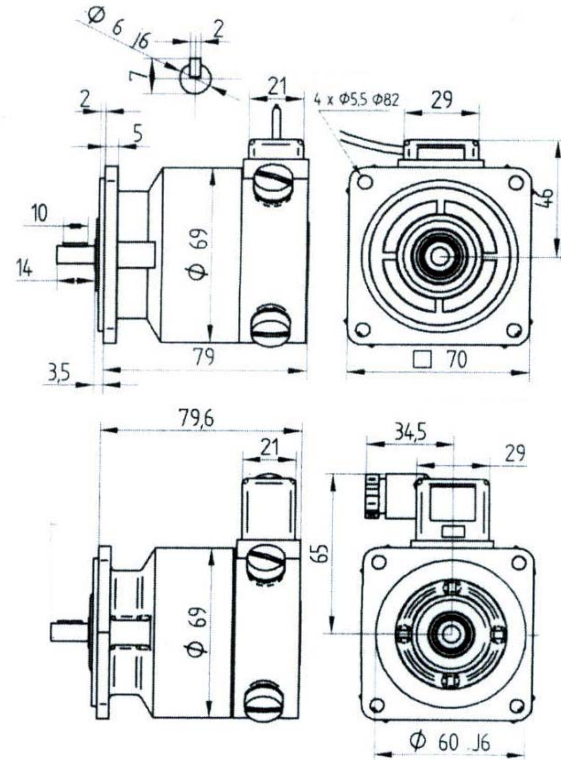
- Industrial applications
- Speed control and regulation

**DESCRIPTION**

- New mechanical design with terminal box or cable
- Magnetic circuit designed for standard industrial applications
- Only with flange



Weight kg	1,0
-----------	-----



**GENERAL DATA**

Designation	Symbol	Unit	Value
Maximum speed (mechanical)	$n_m$	rpm	8000
Moment of inertia	J	kg cm <sup>2</sup>	0,62
No load driving torque	$M_r$	N. cm	0,4
Maximum radial shaft stress	F	da N	0,3 (Ø 6) 1,0 (Ø 11)
Maximum E.M.F.	$E_m$	V	300
Maximum linearity error	$\Delta E$	% $E_T$	$\leq 0,15$
Overall ripple rate (peak to peak)	$\Delta E_c$	% $E_c$	$\leq 1,0$
Calibration precision	$\Delta E_o$	% $E_{T_o}$	$\pm 1,5$
E.M.F. temperature drift - not compensated - compensated	$\Delta E_e$	% /°C	0,02 -
Time constant	$C_t$	ms	0,2
*Filter:	RF x CF	ms	1
Load current	$I_c$	mA	3
Speed	n	U/min.	3000

**Construction details**

Number of poles	4
Number of armature slots	33
Number of collector blades	33
Insulation class	B (IEC 34-1)
Operating temperature	-20° - 80 °C
Climatic protection	C <sub>a</sub> (IEC 68-1)
Protection degree	IP 44 (IEC 34-5)
Direction of rotation	Reversible
Excitation	Permanent magnets SmCo

\* Filter-connecting diagram on demand

**DESTINATION**

- Industrial applications
- Speed control and regulation

**DESCRIPTION**

- New mechanical design with terminal box or cable
- Magnetic circuit designed for standard industrial applications
- Only with flange

TYPE  
RE.0315 L

**Mechanical options**

	Mounting side			Opposite mounting side		
	D (mm)	L (mm)	Bearings	D (mm)	L (mm)	Bearings
Standard	6	14	12 x 28 x 8 ZZ	-	-	8 x 22 x 7 ZZ
max.	11	30	12 x 28 x 8 ZZ	-	-	8 x 22 x 7 ZZ

**Options****Available options on 2nd shaft end****Markings and polarity of terminals (cables) for counter-clockwise rotation viewing the mounting face**

1 collector	2 collector
Red A1: + - White A2: --	

**Electrical options**

			Min.						Max.					
E.M.F. at 1000 rpm.	$E_n$	V	7	10	20	30	40	50	60					
Voltage gradient	$C_v$	V/rpm	0,007	0,010	0,020	0,030	0,040	0,050	0,06					
Armature resistance	$R_a$	$\Omega$	2,2	5	20	40	70	110	160					
Max. thermal load	$I_{th}$	A	0,50	0,36	0,18	0,11	0,09	0,07	0,07					
Max. allowed speed	$n_a$	rpm	8000	8000	8000	8000	7500	6000	5000					

**Brushes**

Number	Size	Quality	Application limits	Reference
4	6 x 4 x 9,9	Electro-graphite (EG)	On request	60 - 40 - EG
		Silver-graphite (CA)	STANDARD for normal use at E.M.F. < 300 V	60 - 40 - CA