

TYPE

# RE.0444 NV



## DESTINATION

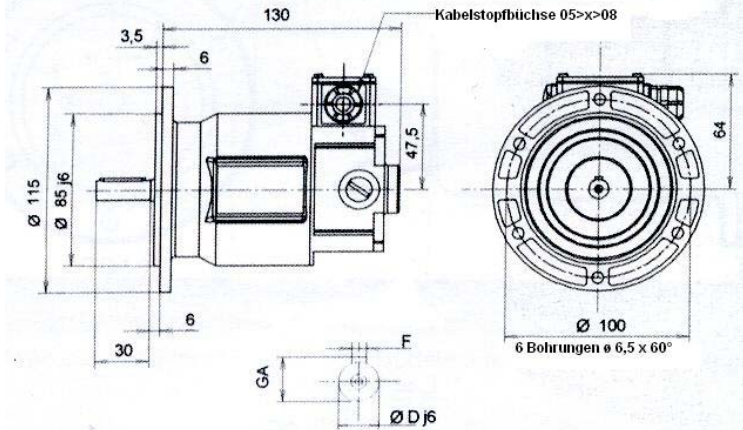
- Industrial applications

## DISCRIPTION

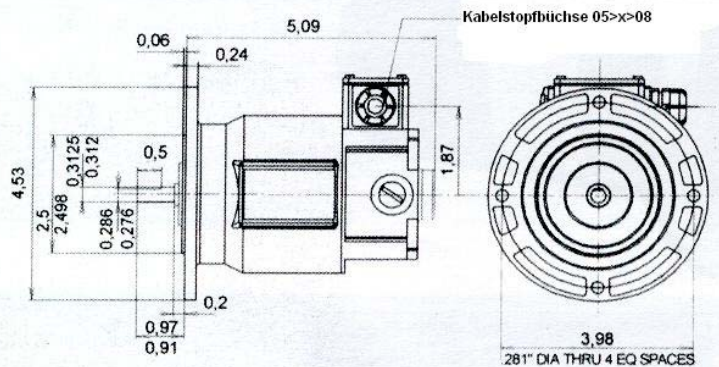
- New mechanical design with terminal box
- Magnetic circuit designed for standard industrial applications
- Only with flange



### RE.0444 NV



### RE.0444 NV US



## GENERAL DATA

Designation	Symbol	Unit	Value	
Maximum speed (mechanical)	$n_m$	rpm.	12000	
Moment of inertia	J	kg cm <sup>2</sup>	0,95	
No load driving torque	$M_r$	N. cm	1,5	
Maximum radial shaft stress	F	da N	0,4 Ø 7 mm	1,0 Ø 11 mm
Maximum E.M.F.	$E_m$	V	300	
Maximum linearity error	$\Delta E$	% $E_T$	≤ 0,15	
Overall ripple rate (peak to peak)	$\Delta E_c$	% $E_c$	≤ 0,5	
Calibration precision	$\Delta E_o$	% $E_{T_o}$	± 1	
E.M.F. temperature drift - not compensated - compensated	$\Delta E_e$	%/°C	0,02 0,005	
Time constant	$C_t$	ms	2,5	
*Filter: Time constant Load current Speed	$L_c$ n	ms mA rpm.	0,47 5 3000	

Construction details	
Insulation class	B (IEC 34-1)
Operating temperature	-30° - +130 °C
Climatic protection	$C_a$ (IEC 68-1)
Protection degree	IP 44 (IEC 34-5)
Direction of rotation	Reversible
Excitation	permanent magnets SmCo
Weight	1,8 kg

\* Filter-connecting diagram on demand

Rev.: 01

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

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### Mechanical options

### Shaft ends and bearings

	Mounting side					Opposite mounting side
	D (mm)	L (mm)	F (mm)	GA (mm)	Bearings	Bearings
RE.0 444 NV Standard	11	30	4	12,5	12 x 28 x 8 ZZ	8 x 22 x 7 ZZ
RE.0 444 NV	7	30	2	8	12 x 28 x 8 ZZ	8 x 22 x 7 ZZ
RE.0 444 NV US					12 x 28 x 8 ZZ	8 x 22 x 7 ZZ

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

A1: +  
A2: -

### Electrical options

E.M.K. at 1000 rpm.	$E_n$	V	20	40	50	60	100							
Voltage gradient	$C_v$	V/rpm	0,02	0,04	0,05	0,06	0,10							
Armature resistance	$R_a$	$\Omega$	12	45	70	100	280							
Max. thermal load	$I_{th}$	A	0,55	0,25	0,22	0,18	0,11							
Max. allowed speed	$n_a$	Rpm	12000	7500	6000	5000	3000							

### Brushes

Number	Size	Grade	Application limits		Reference
4	3,1 x 4,1 x 12,5	Silver-graphite (CA)	Max. Spannung	300 V	31 - 41 - CA