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## Tachogenerators

### BATAC315L



#### Applications:

- Industry Applications
- Speed Control and Regulation

#### Features:

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

#### Characteristics:

DESCRIPTION:	VALUE:
MAX. SPEED	: 8000 RPM
MOMENT OF INERTIA	: 0.62 KG cm <sup>2</sup>
NO-LOAD DRIVING TORQUE	: 0.4 N·cm
MAX. RADIAL SHAFT STRESS:	0.3 (∅ 6) 1.0 (∅ 11)
MAX. E.M.F	: 300 V
MAX. LINEARITY ERROR	: ≤ 0.15 % E <sub>T</sub>
OVERALL RIPPLE RATE	: ≤ 1 % E <sub>c</sub>
CALIBRATION PRECISION	: ± 1.5 % E <sub>TO</sub>
E.M.F TEMPERATURE DRIFT	
• NOT COMPENSATED	: 0.02 % /°C
TIME CONSTANT	: 0.2 ms
*FILTER:	
TIME CONSTANT OF FILTER	: 1.0 ms

DESCRIPTION:	VALUE:
INSULATION CLASS	: B (IEC 34-1)
OPERATING TEMPERATURE	: -20° + 80 °C
CLIMATIC PROTECTION	: C <sub>a</sub> (IEC 68-1)
INGRESS PROTECTION	: IP44 (IEC 34-5)
DIRECTION OF ROTATION	: Reversible
EXCITATION <i>Permanent Magnets</i>	: SmCo
WEIGHT	: 1 KG

#### Mechanical Options:

MOUNTING SIDE			
	D (mn)	L (mn)	BEARINGS
STANDARD SHAFT	6	14	12 x 28 x 8 ZZ
SPECIAL SHAFT	11	30	12 x 28 x 8 ZZ

OPPOSITE MOUNTING SIDE	
	BEARINGS
	8 x 22 x 7 ZZ
	8 x 22 x 7 ZZ



Markings and polarity of terminals (cables) for counterclockwise rotation, seen from the shaft.

#### 1 COMMUTATOR

A1: +  
A2: -

# Tachogenerators

BATAC315L

**BirCraft**  
GEARED MOTORS - LINEAR ACTUATORS - CONTROLS

- Over 40 Years of Supplying Africa -

## Electrical Options:

DESCRIPTION:	SYMB:	UNIT:	VALUES:						
E.M.F AT 1 000 RPM	$E_n$	V	7	10	20	30	40	50	60
VOLTAGE GRADIENT	$C_v$	V/RPM	0.007	0.01	0.02	0.03	0.04	0.05	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:

QUANTITY:	DIMESNSION:	GRADE:
4	6 x 4 x 13	Electrographite
		Silver-graphite

## Dimensions:

