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## Tachogenerators

### BATAC444L1



#### Applications:

- Industry Applications
- Control and Regulation

#### Features:

- DC Tachogenerator Generator
- Compact Design
- Good Quality Signal
- Connector
- One Commutator Version

#### 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:	: 0.4 da N
• 7 X 30MM	: 0.4 da N
• 11 X 30MM	: 1.0 da N
MAX. E.M.F	: 300 V
MAX. LINEARITY ERROR	: ≤ 0.15 % E <sub>T</sub>
OVERALL RIPPLE RATE	: ≤ 1 % E <sub>c</sub>
ROTATION HARMONICS	: ≤ 0.3 % E <sub>c</sub>
SLOTS HARMONICS	: ≤ 0.7 % E <sub>c</sub>
CALIBRATION PRECISION	: ± 1.5 % E <sub>TO</sub>
E.M.F TEMPERATURE DRIFT	: 0.03 % / °C
• NOT COMPENSATED	: 0.02 % / °C
• COMPENSATED	: 0.005 % / °C
TIME CONSTANT	: 0.2 ms
*FILTER:	
TIME CONSTANT OF FILTER	: 1.0 ms

DESCRIPTION:	VALUE:
LOAD CURRENT	: 3 mA
SPEED	: 3000 RPM
NUMBER OF POLES	: 4
ARMATURE SLOTS NUMBER	: 33
COMMUTATOR BLADES NUMBER	: 33
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>	: Samarium Cobalt
WEIGHT	: 1 KG

#### Mechanical Options:

MOUNTING SIDE			
	D (mn)	L (mn)	BEARINGS
STANDARD SHAFT	7 / 11	30	8 x 22 x 7 ZZ / 12 x 28 x 8 ZZ
SPECIAL SHAFT	14 (MAX)	-	15 x 32 x 9 ZZ

OPPOSITE MOUNTING SIDE			
	D (mn)	L (mn)	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

1 A1: +  
1 A2: -

#### 2 COMMUTATORS

2 A1: +  
2 A2: -

# Tachogenerators

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# 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	60
VOLTAGE GRADIENT	$C_v$	V/RPM	0.06
ARMATURE RESISTANCE	$R_a$	$\Omega$	160
MAX THERMAL LOAD	$I_{th}$	A	0.1
MAX. ALLOWED SPEED	$n_a$	RPM	5000

## Brushes:

QUANTITY:	DIMESNSION:
4	6 x 4 x 13 mm

## Dimensions:

