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## Tachogenerators

### BATARDC205 / BATARDC206



### Applications:

- Industrial Applications
- Machine Tools
- Robots

### Features:

- DC Tachometer Generator: Rotor / Stator Set
- Permanent Magnet excitation
- Rotor mounted on smooth shaft
- Small Size
- Copper commutator

### Characteristics:

DESCRIPTION:	BATAC205:	BATAC206:
MAX. SPEED	: 8000 RPM	6000 RPM
MOMENT OF INERTIA	: 0.08 KG cm <sup>2</sup>	0.12 KG cm <sup>2</sup>
NO-LOAD DRIVING TORQUE	: ≤ 0.3 N·cm	≤ 0.3 N·cm
MAX. E.M.F	: 100 V	100 V
MAX. LINEARITY ERROR	: ≤ 0.15 % E <sub>T</sub>	≤ 0.15 % E <sub>T</sub>
OVERALL RIPPLE RATE	: ≤ 0.5 % E <sub>c</sub>	≤ 0.5 % E <sub>c</sub>
ROTATION HARMONICS	: ≤ 0.05 % E <sub>c</sub>	≤ 0.05 % E <sub>c</sub>
SLOTS HARMONICS	: ≤ 0.45 % E <sub>c</sub>	≤ 0.45 % E <sub>c</sub>
CALIBRATION PRECISION	: ± 2 % E <sub>to</sub>	± 2 % E <sub>to</sub>
E.M.F TEMPERATURE DRIFT	: 0.03 % /°C	0.03 % /°C
• NOT COMPENSATED	: 0.03 % /°C	0.03 % /°C
• COMPENSATED	: -	-
TIME CONSTANT	: 0.2 ms	0.4 ms
*FILTER:		
• TIME CONSTANT OF FILTER	: 0.1 s	0.1 s
• LOAD CURRENT	: 2 mA	2 mA
SPEED	: 3000 RPM	3000 RPM

DESCRIPTION:	BATAC205:	BATAC206:
NUMBER OF POLES	: 4	4
ARMATURE SLOTS NUMBER	: 33	33
COMMUTATOR BLADES NUMBER	: 33	33
INSULATION CLASS	: B (IEC 34-1)	B (IEC 34-1)
OPERATING TEMPERATURE	: 0° - 80 °C	-20° + 80 °C
CLIMATIC PROTECTION	: C <sub>a</sub> (IEC 68-1)	C <sub>a</sub> (IEC 68-1)
PROTECTION DEGREE	: IP 00 (IEC34-5)**	IP 00 (IEC34-5)**
DIRECTION OF ROTATION	: Reversible	
EXCITATION	: Permanent Magnets: SmCo	
WEIGHT (KG)	: 0.17	0.25

### Mechanical Options:

ARMATURE BORE ∅ d (MM)			MOTOR CENTERING END FRAME ∅ D (MM)			Armature clamping system
STANDARD	MAX.	MIN.	STANDARD	-	-	
12,7 <sup>H7</sup>	12.7	6	50.8	-	-	Smooth - Mounted by pressing

### Electrical Options:

DESCRIPTION:	UNIT:							
E.M.F at 1 000 rpm	V	BATAC205	2	3	7	10		
		BATAC206					10	14
Voltage Gradient	V/RPM	BATAC205	0.002	0.003	0.007	0.01		
		BATAC206					0.01	0.014
Armature Resistance	Ω	BATAC205	5	11	62	112		
		BATAC206					34	77
Max Thermal Load	A	BATAC205	164	118	48	37		
		BATAC206					76	48
Max. Allowed Speed	RPM	BATAC205	8000	8000	8000	8000		
		BATAC206					6000	6000

# Tachogenerators

BATARDC205 / BATARDC206

# BirCraft

GEARED MOTORS - LINEAR ACTUATORS - CONTROLS

- Over 40 Years of Supplying Africa -

## Brushes:

QUANTITY:	DIMESNSION:	GRADE:
4	3.5 x 3 x 10	Electrographite
		Silver-graphite

## Dimensions:

