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## Tachogenerators

### BATARDC210



#### Applications:

- Industrial Applications
- Machine Tools
- Robots

#### Features:

- DC Tachometer Generator: Rotor / Stator Set
- Permanent Magnet excitation
- Commutator on opposite of mounting side
- Silver Commutator

#### Characteristics:

DESCRIPTION:	UNIT:
MAX. SPEED	: 6000 RPM
MOMENT OF INERTIA	: 0.7 KG cm <sup>2</sup>
NO-LOAD DRIVING TORQUE	: ≤ 0.5 N-cm
MAX. E.M.F	: 120 V
MAX. LINEARITY ERROR	: ≤ 0.15 % E <sub>T</sub>
OVERALL RIPPLE RATE	: ≤ 0.5 % E <sub>c</sub>
ROTATION HARMONICS	: ≤ 0.05 % E <sub>c</sub>
SLOTS HARMONICS	: ≤ 0.45 % E <sub>c</sub>
CALIBRATION PRECISION	: ± 2 % E <sub>to</sub>
E.M.F TEMPERATURE DRIFT	
• NOT COMPENSATED	: 0.03 % /°C
• COMPENSATED	: -
TIME CONSTANT	: 0.45 ms
*FILTER:	
• TIME CONSTANT OF FILTER	: 0.1 ms
• LOAD CURRENT	: 3 mA
SPEED	: 3000 RPM

DESCRIPTION:	UNIT:
NUMBER OF POLES	: 4
ARMATURE SLOTS NUMBER	: 33
COMMUTATOR BLADES NUMBER	: 33
INSULATION CLASS	: B (IEC 34-1)
OPERATING TEMPERATURE	: -20° + 110 °C
CLIMATIC PROTECTION	: C <sub>a</sub> (IEC 68-1)
PROTECTION DEGREE	: IP 44 (IEC34-5)
DIRECTION OF ROTATION	: Reversible
EXCITATION - <i>Permanent Magnets</i>	: Alnico
WEIGHT	: 0.5 KG

#### Mechanical Options:

ARMATURE BORE ∅ d (MM)			MOTOR CENTERING END FRAME ∅ D (MM)			Armature clamping system
STANDARD	MAX.	MIN.	STANDARD	-	-	
16 <sup>H7</sup>	16	8	89	-	-	Key or Expanding Device



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

#### 1 COMMUTATOR

A1: +  
A2: -

# Tachogenerators

BATARDC210

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

- Over 40 Years of Supplying Africa -

## Electrical Options:

DESCRIPTION:	UNIT:	VALUES:				
E.M.F at 1 000 rpm	V	5	7	10	14	20
Voltage Gradient	V/RPM	0.005	0.007	0.010	0.014	0.02
Armature Resistance	$\Omega$	5	11	22	45	80
Max Thermal Load	A	280	190	136	92	74
Max. Allowed Speed	RPM	6000	6000	6000	6000	6000

## Brushes:

QUANTITY:	DIMESNSION:	GRADE:
4	6 x 4 x 11	Electrographite
		Silver-graphite

## Dimensions:

