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Tachogenerators

BATAC444ADF



Applications:

- Potentially explosive atmospheres
- Control and Regulation

Features:

- New mechanical design with terminal box
- Tachogenerator and/or optical encoder are easily integrated for heavy duty or standard industrial applications
- Flange or Foot
- Available in two lengths

Characteristics:

DESCRIPTION:	BATAC444ADF1	BATAC444ADF2	BATAC444ADF3
MAX. SPEED	: 12 000 RPM	12 000 RPM	7500 RPM
MOMENT OF INERTIA	: 0.95 KG cm ²	0.95 KG cm ²	1.8 KG cm ²
NO-LOAD DRIVING TORQUE	: 1.5 N·cm	1.5 N·cm	0.5 N·cm
MAX. RADIAL SHAFT STRESS:	: 1.0 da N	1.0 da N	1.0 da N
MAX. E.M.F	: 600 V	600 V	300 V
MAX. LINEARITY ERROR	: ≤ 0.15 % E _T	≤ 0.15 % E _T	≤ 0.15 % E _T
OVERALL RIPPLE RATE	: ≤ 0.5 % E _c	≤ 0.5 % E _c	≤ 0.5 % E _c
CALIBRATION PRECISION	: ± 1 % E _{To}	± 1 % E _{To}	± 2 % E _{To}
E.M.F TEMPERATURE DRIFT			
• NOT COMPENSATED	: 0.02 % /°C	0.02 % /°C	0.03 % /°C
• COMPENSATED	: 0.005 % /°C	0.005 % /°C	-
TIME CONSTANT	: 2.5 ms	2.5 ms	0.6 ms
*FILTER:			
• TIME CONSTANT OF FILTER	: 0.47 ms	0.47 ms	0.47 ms
• LOAD CURRENT	: 5 mA	5 mA	1.5 mA
SPEED	: 3000 RPM	3000 RPM	3000 RPM
INSULATION CLASS	: B (IEC 34-1)	B (IEC 34-1)	B (IEC 34-1)
OPERATING TEMPERATURE	: -30° / +130°C	-30° / +130°C	-30° / +130°C
CLIMATIC PROTECTION	: IEC 68-1 C _a	IEC 68-1 C _a	IEC 68-1 C _a
PROTECTION DEGREE	: IP 56	IP 56	IP 56
DIRECTION OF ROTATION	: Reversible		
EXCITATION <i>Permanent Magnets</i>	: Alnico	Alnico	Samarium Cobalt
E.M.F at 1000 RPM	: 20 60 200	2 x 20 2 x 60 2 x 100	20 40 60
VOLTAGE GRADIENT	: 0.02 0.06 0.2	2 x 0.2 2 x 0.06 2 x 0.1	0.02 0.04 0.06
ARMATURE RESISTANCE	: 12 100 900	2 x 24 2 x 200 2 x 470	24 62 130
MAX. THERMAL LOAD	: 0.55 0.18 0.07	2 x 0.23 2 x 0.09 2 x 0.09	0.17 0.08 0.06
MAX. ALLOWED SPEED	: 12000 10000 3000	12000 10000 6000	7500 7500 500