

Xtrafors™ FC

TECHNICAL SPECIFICATIONS HALL SENSORS

SUPPLY VOLTAGE 3.8...24VDC
OUTPUT ON CURRENT 20 mA
OUTPUT OFF VOLTAGE 3.8...24VDC
OPERATING JUNCTION TEMPERATURE -40°C
to+170°C
OUTPUT RISE TIME 400 ns (Max.)
OUTPUT FALL TIME 400 ns (Max.)
MAGNETIC FIELD FREQUENCY from DC to 10kHz
EMC corresponding to DIN 40839

Characteristics

MAX SPEED n r.p.m	20000
STALL TORQUE (+/-10%) Ms Nm	0.2
STALL CURRENT (+/-10%) Is A	11.11
PEAK TORQUE (+/-10%) Mj Nm	1.2
TORQUE-WEIGHT RATIO Tw Nm/kg	0.77
EMF CONSTANT (+/-10%) Ke Vs/rad	0.018
TORQUE CONSTANT (+/-10%) Kt Nm/A	0.018
COGGING TORQUE Ct Nm	0.0
WINDING RESISTANCE (+/-10%) R(ph-ph)	0.169
WINDING INDUCTANCE (+/-10%) L(ph-ph) mH	0.025
ROTOR INERTIA J kgm ² 10 ⁻³	0.003
MECHANICAL TIME CONSTANT Tm ms	1.56
ELECTRICAL TIME CONSTANT Te ms	0.148
THERMAL RESISTANCE Rth °C/W	4.30
MASS M kg	0.26
INSULATION	class-F
PROTECTION	IP-54
MAX.WORKING TEMPERATURE C°	155
Nº of poles	4
ALUMINIUM HEAT SINK PLATE	300X300

TECHNICAL SPECIFICATIONS

- * Very High Speed with Low Voltage 48 VDC
- * Small Size
- * No cogging
- * Light-Weight

FC 13

INFRANOR
MAVILOR

