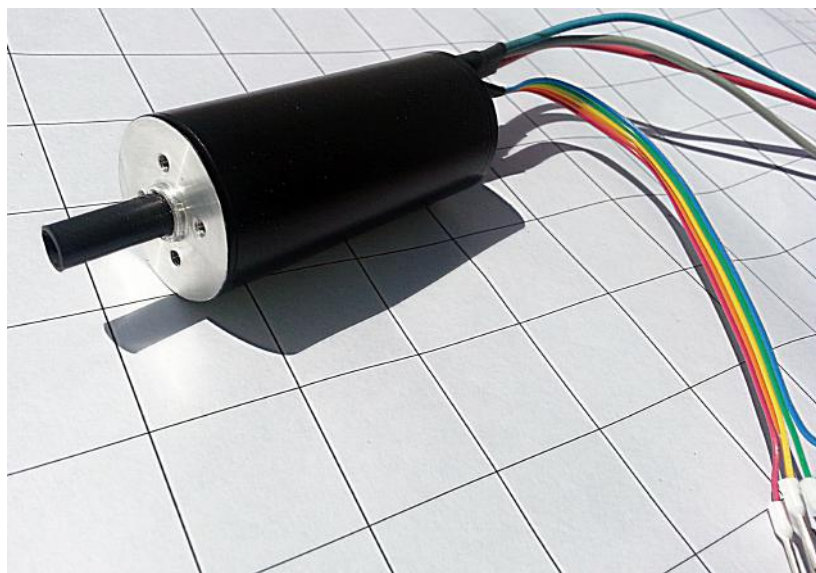


# NEW

## FC 13



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

### TECHNICAL SPECIFICATIONS

### CHARACTERISTICS

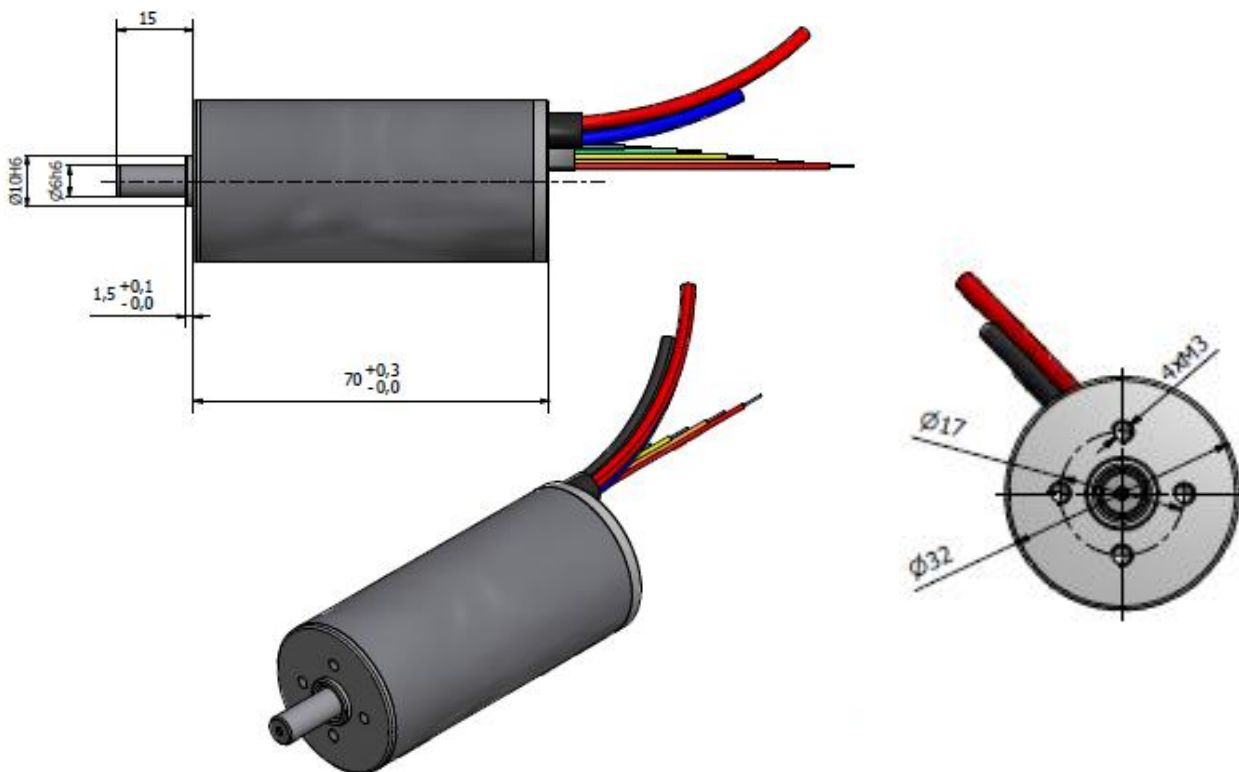
### SYMBOL

### UNITS

### FC 13

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)	$\Omega$	0.169
WINDING INDUCTANCE (+/-10%)	L(ph-ph)	mH	0.025
ROTOR INERTIA	J	kgm <sup>2</sup> 10 <sup>-3</sup>	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
N° of poles			4
ALUMINIUM HEAT SINK PLATE			300X300

## DRAWING



## 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