



**ELECTRIC DRIVE
ENGINEERING**

MOTENERGY ME1114

Fan-cooled brushless motor/generator



Permanent Magnet Synchronous Motor

Axial Flux

Fan-cooled

Available with Motor Controller



**ELECTRIC DRIVE
ENGINEERING**

TECHNICAL DATA

Nominal Operation (at 72V DC battery)

Torque (Continuous)	18Nm
Power (Continuous)	10kW
Max Speed	5000RPM
Current (Continuous)	125A RMS
Current (Peak)	400A RMS (1 min)

Electrical Data

Number of Phases	3
Number of Pole Pairs	4
Maximum Efficiency	92%
Phase Resistance	0.006Ω
Inductance (at 100Hz)	0.082mH

Additional Data

Weight (w/o cables)	10.9 kg
Protection Category	IP20
Temperature Sensor	KTY84-130
Max Temperature	150°C
Encoder	Sin/Cos 5V

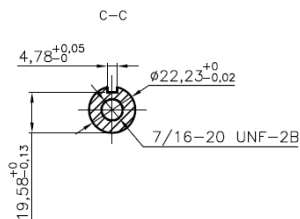
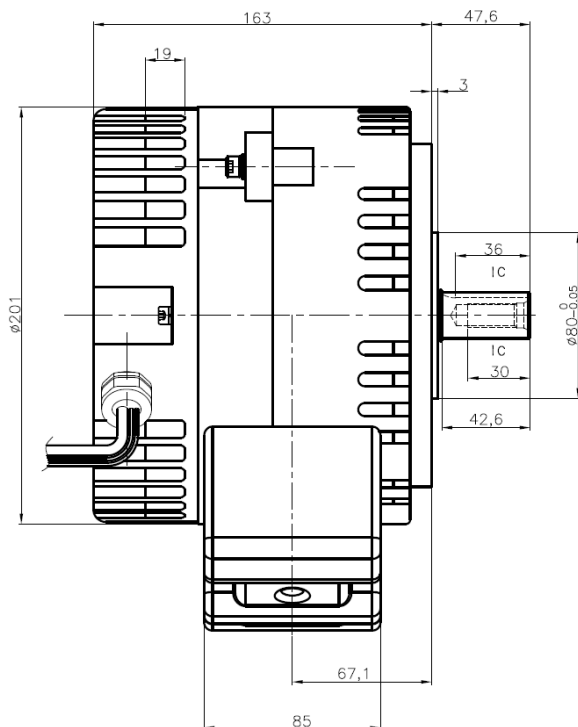
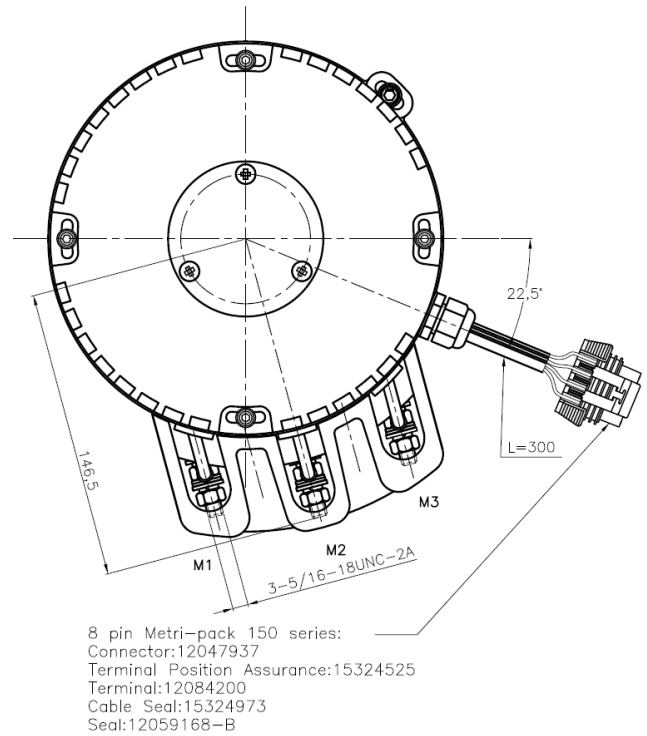
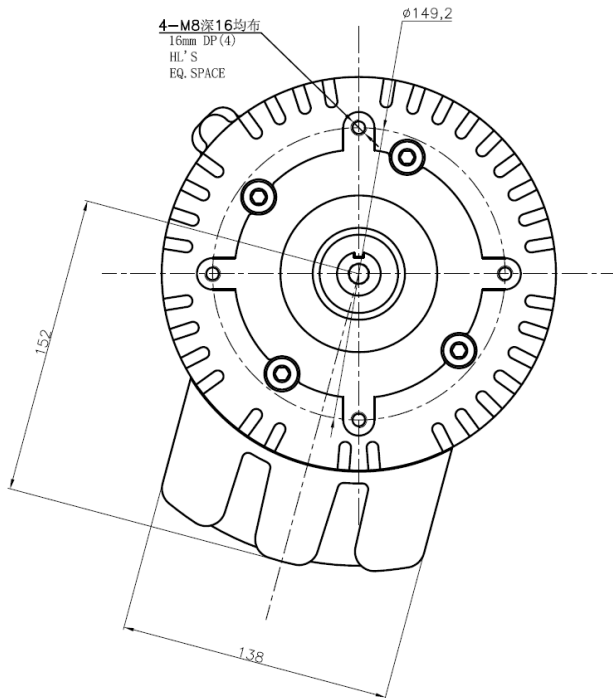
Connectors

Phase Cables	3x 16mm ² (Phase cables not included)
Signal Connectors	8-pin Metri-Pack 150 Series (12047937)



**ELECTRIC DRIVE
ENGINEERING**

TECHNICAL DRAWINGS



Pin Location	Wire Designation	Wire Colour
A	Sine	Blue
B	Cosine	White
C	Ground	Black
D	N/C	
E	V _{dd} (+5V)	Red
F	Shield	Green
G	Temp1	White (-)
H	Temp2	White (+)



PERFORMANCE PLOT

