

M280-LC

Applications

- Electric car
- Electric airplane
- Retrofit

Description

The M280 motor is a permanent-magnet synchronous brushless motor. Its rotor, with low magnetic cogging, reduces noise and vibrations and delivers smooth, jerk-free acceleration. Different motor lengths are available depending on the required power. Weighing only 23 kg in the M280-50 version, this motor is perfectly suited for sports vehicles and embedded aircraft generator applications.

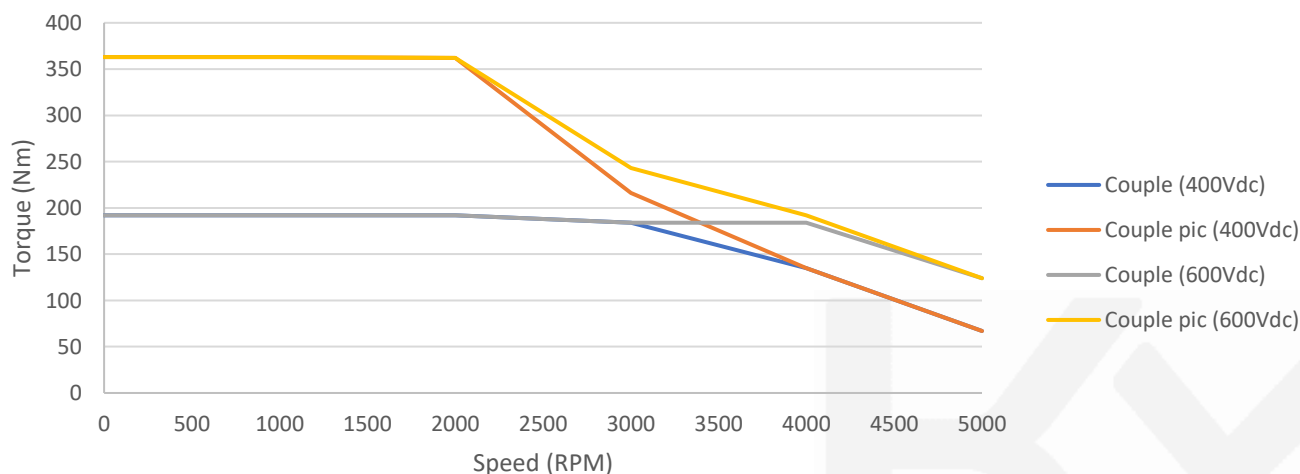


Spécifications

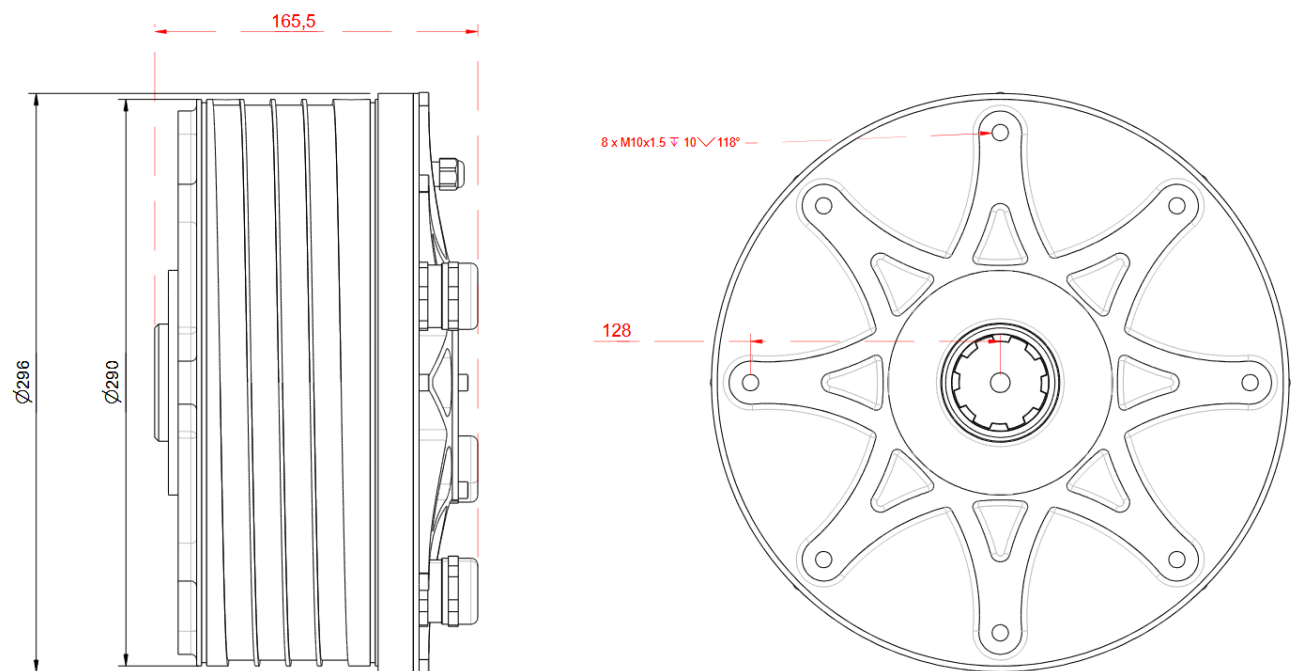
		M280-25	M280-50	M280-75	M280-100	UNIT
Vn	Nominale speed	3000	3000	3000	3000	tr/min
Vm	Max speed	5000	5000	5000	5000	tr/min
Cn	Nominal torque	105	210	315	420	Nm
C peak	Peak torque	180	360	540	720	Nm
Pn	Nominal power	40	80	120	160	kW
P max	Peak power	56	113	169	226	kW
Np	Number of pôles	24	24	24	24	
Un	Voltage supply	400-800	400-800	400-800	400-800	V*
	Cooling type	Water cooling				
Fwater	Water flow	20				L/min
Twater	Max water temperature	50				°C

*Can be modified on request

Torque function of speed (M280-50)



▪ M280-50 LC Drawing



▪ Application example

Formula student

Maximal speed	140	Km/h
Acceleration	1,5	g
Mass of the vehicle	400	kg

