

NX8xHM

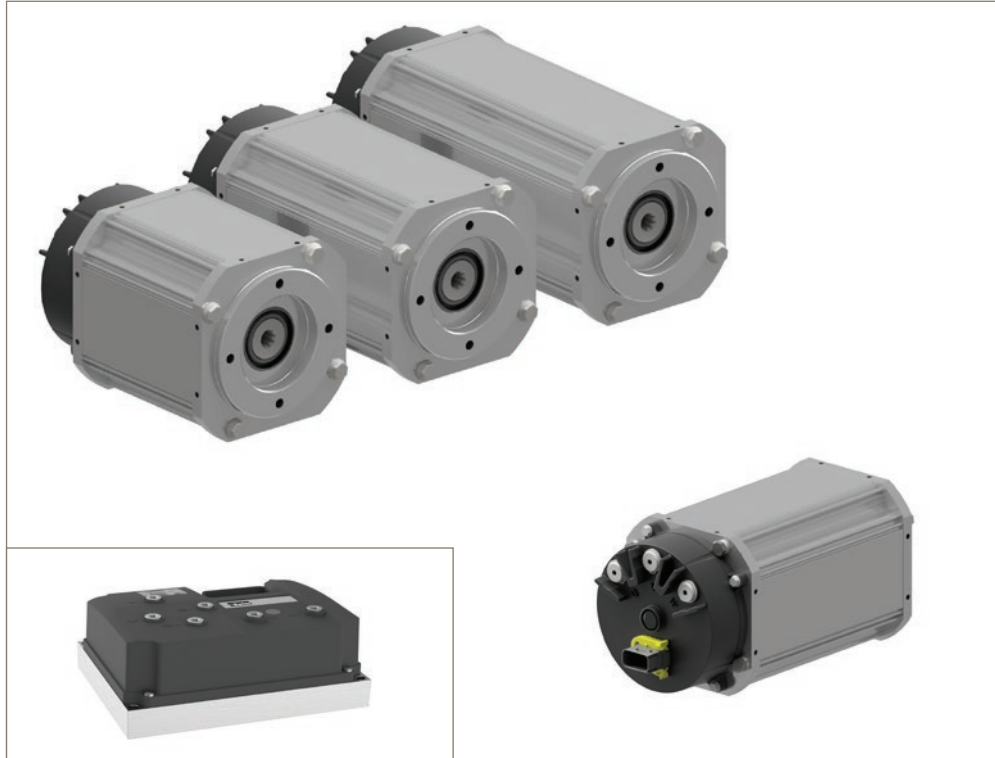
Low Voltage Motor for Electro Hydraulic Pump Applications



Description:

The NX8 permanent magnet AC motor is the ideal choice for your electro hydraulic pump applications, allowing a direct pump assembly without any mounting interface. It is capable of working immersed in oil, allowing improved pump performance and noiseless work. This cost effective solution has been engineered for both on and off-road vehicles.

The high torque density and high efficiency of Parker Permanent Magnet AC (PMAC) motors combined with a voltage matched inverter provide a solution to easily electrify hydraulic pumps in low voltage applications, as a first step on the journey to full vehicle electrification.



Applications:

- Electro-hydraulic pumps for mini construction vehicles
- Steering applications

Product Advantages:

- Easy mechanical mounting with fixing locations on all 4 sides
- For battery voltage from 24 to 96 Vdc
- Temperature monitoring with PT1000 thermal sensor
- Membrane breather vent to minimise internal condensation
- Direct SAE A, ISO 3019/2 pump mounting interface
- Natural convection cooling
- Protection IP67
- Sincos Encoder Feedback
- Oil immersion capability
- Easy combination with Parker Global Vehicle Inverter (GVI)



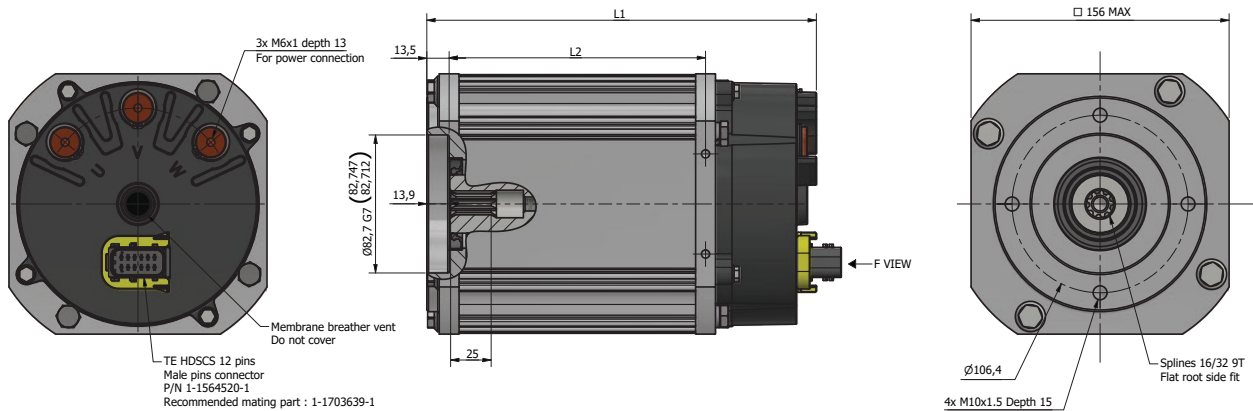
Technical Specifications

Inverter input voltage	Motor Type*	Max speed rpm	Rated torque N.m	Rated power kW
24Vdc	NX82HMSC	4000	19.1	5.61
	NX84HMSC	2000	37.7	5.33
	NX86HMSC	1250	51.7	4.9
48Vdc	NX82HMSE	5000	18.2	6.66
	NX84HMSE	3000	35.1	7.99
	NX86HMSE	2600	46	9.09
96Vdc	NX82HMSE	4200	19.3	5.53
	NX84HMSE	3500	34.2	9.1
	NX86HMSE	3000	42.6	10.4

Motor data for standard air cooled with front flange surface exchange of 60°C

* Other motor performances and oil immersion capability are available on request. Please contact Parker.

Dimensions Standard SAE A interface



Motor size	L1 [mm]	L2 [mm]	SAE A	Weight [kg]
NX82HM	235.5	160	X	13
NX84HM	295.5	220	X	20.5
NX86HM	355.5	280	X	28

Also available with ISO 3019/2 interface (please contact Parker)