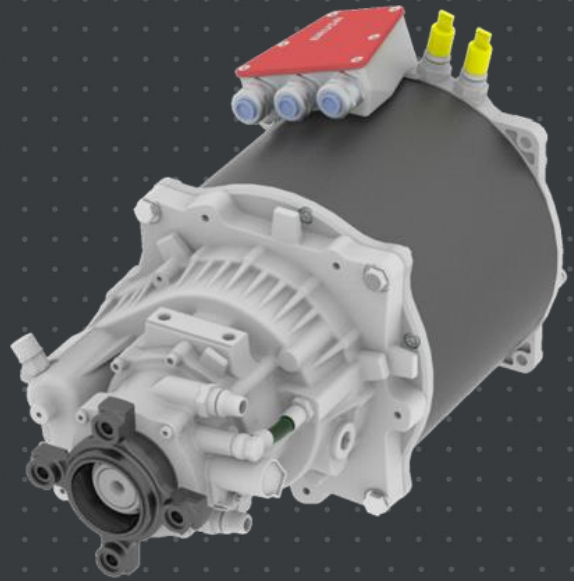


**DTSP1-028-
HSM1-10.18.13**
Single Planetary
Traction Drive



**Optimal performance
from zero speed**

Safety first

Including mechanical
parking lock

Low short circuit torque

Integrated overload
protection against
overheating

Cutting-Edge Technology

High power density

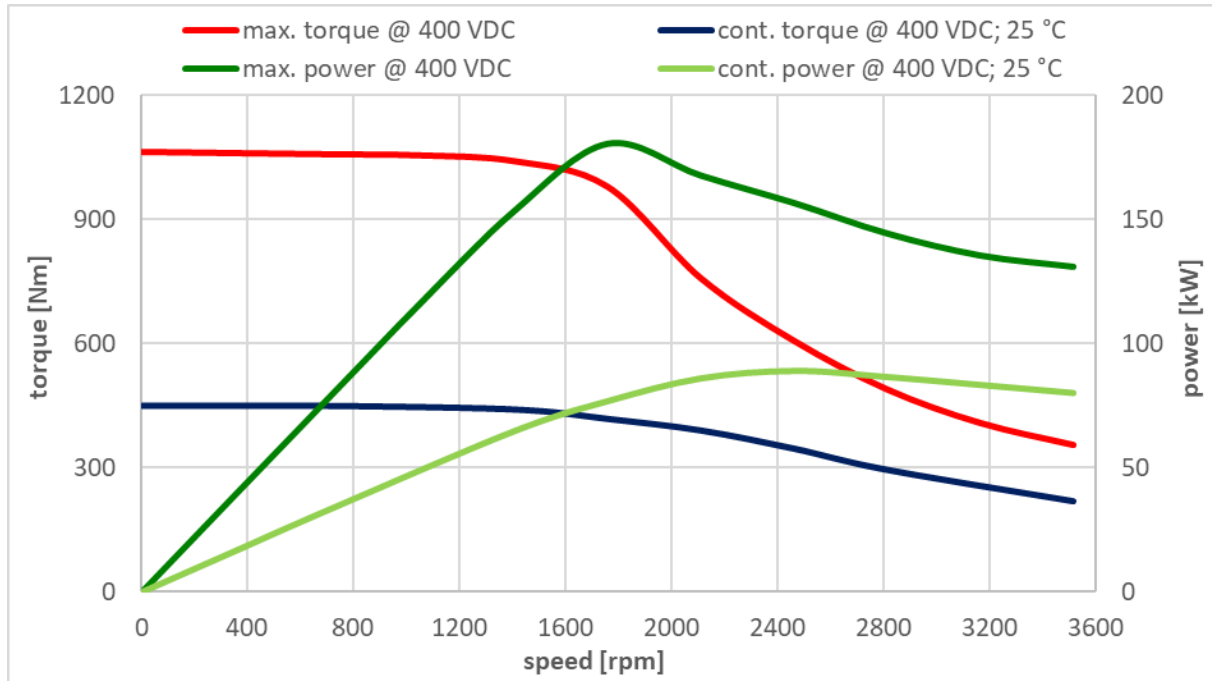
Minimal drag losses

Constant power over a very
wide speed range

High efficiency over a wide
speed and torque range

Performance data at 400V _{DC}	DTSP1	
Nominal speed	1'618	rpm
Continuous torque	448	Nm
Maximum torque (at max. inverter current)	1'064	Nm
Continuous power (acc. S1) at 25°C	88	kW
Continuous power (acc. ECE R85) at 25°C	91.5	kW
Maximum power	180	kW
Maximum speed	3'518	rpm
Basic electrical data		
Compatible inverter	DMC544-C02	
Recommended input voltage	300 - 450	V
Maximum inverter current	600	A _{RMS}
Insulation class	H	
Mechanical data / Cooling system / Environment		
Transmission ratio	1:2.842	
Diameter (cooling jacket)	270	mm
Length	504	mm
Weight (dry)	69.3	kg
Oil volume (for 0°...-6° tilt angle)	430 +/-25	ml
Oil volume (for -20° tilt angle)	500 +/-25	ml
Oil type	API-GL5 SAE 75W-90	
Ingress protection	IP67	
Ambient temperature range (operation)	-40 to +85	°C
Ambient temperature range (storage)	-40 to +85	°C
Amount of coolant in motor	0.5	L
Amount of coolant in gear box	0.04	L
Coolant water mixture water/glycol	50/50	%
Coolant input temperature range	-20 to +65	°C
Coolant flow rate	6 to 10	L/min
Max. pressure drop motor (8 L/min, T _{coolant} = 25°C)	225	mbar
Max. pressure drop gear box (8 L/min, T _{coolant} = 25°C)	25	mbar
Maximum coolant pressure	1.5	bar
Maximum altitude	4000	m
Connections		
Phases U, V, W: M6 cable lugs, recommended cross section (Cu)	70	mm ²
Ground GND: M8 cable lug, recommended cross section (Cu)	70	mm ²
Key reference standards*		
Environmental	ISO 16750 ISO 20653 EN 60034-5 LV124	
Electrical Safety	IEC 60664-1 LV123	
Additional relevant standards	EN 60034-1	

Performance DTSP1-028-HSM1-10.18.13



Dimensions [mm]

