



**DTSO1-096-
HSM1-10.18.13**
Offset
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

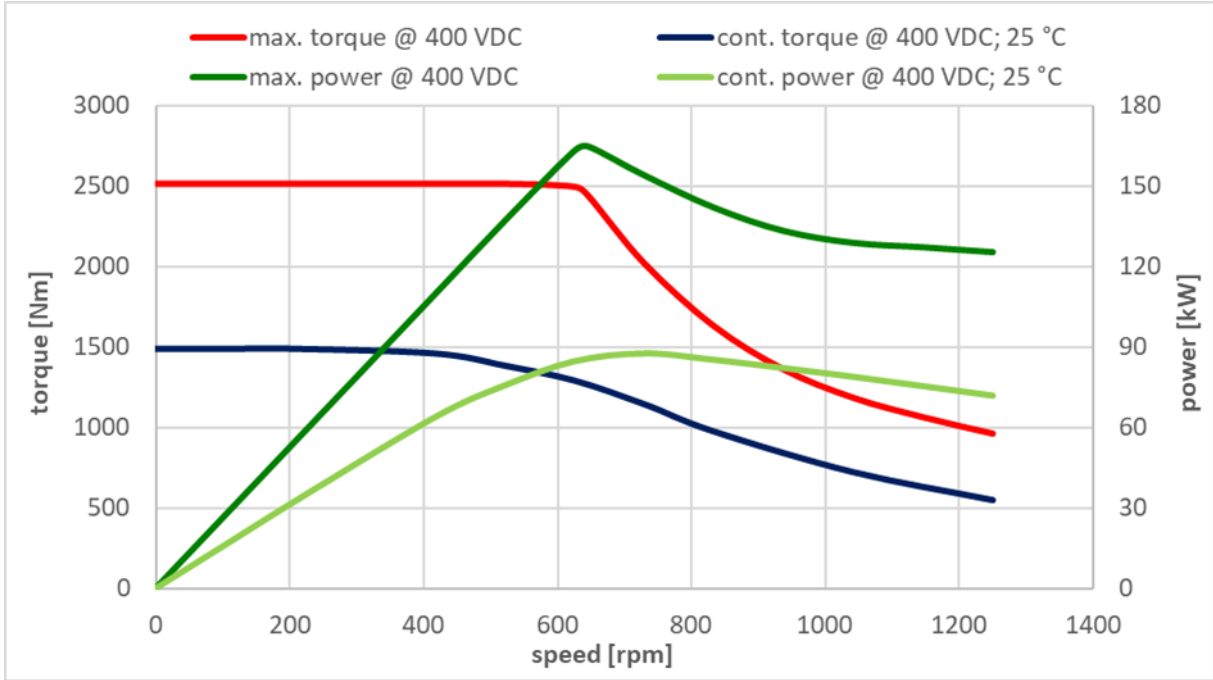
Minimal drag losses

Constant power over a very
wide speed range

High efficiency over a wide
speed and torque range

Performance data at 400V _{DC}	DTSO1	
Nominal speed	520	rpm
Continuous torque	1'490	Nm
Maximum torque (at max. inverter current)	2'500	Nm
Continuous power (acc. S1) at 25°C	87	kW
Continuous power (acc. ECE R85) at 25°C	90	kW
Maximum power	165	kW
Maximum speed	1'250	rpm
Basic electrical data		
Compatible inverter	DMC544-C02	
Recommended input voltage	300 - 450	V
Maximum inverter current	450	A _{RMS}
Insulation class	H	
Mechanical data / Cooling system / Environment		
Transmission ratio	1:9.59	
Diameter (cooling jacket)	270	mm
Length	501	mm
Width	456	mm
Height	325	mm
Weight (dry)	75	kg
Oil volume (+/-50ml)	0.75	L
Oil type	Castrol BOT 553	
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
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
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 DTSO1-096-HSM1-10.18.13



Dimensions [mm]

