

**DTD01-055-
HSM1-10.18.13**
Double Offset
Traction Drive

**Optimal performance for
high performance vehicles**

Safety first

Including mechanical
parking lock

Low short circuit torque

Integrated overload
protection against
overheating

Cutting-Edge Technology

Full torque vectoring

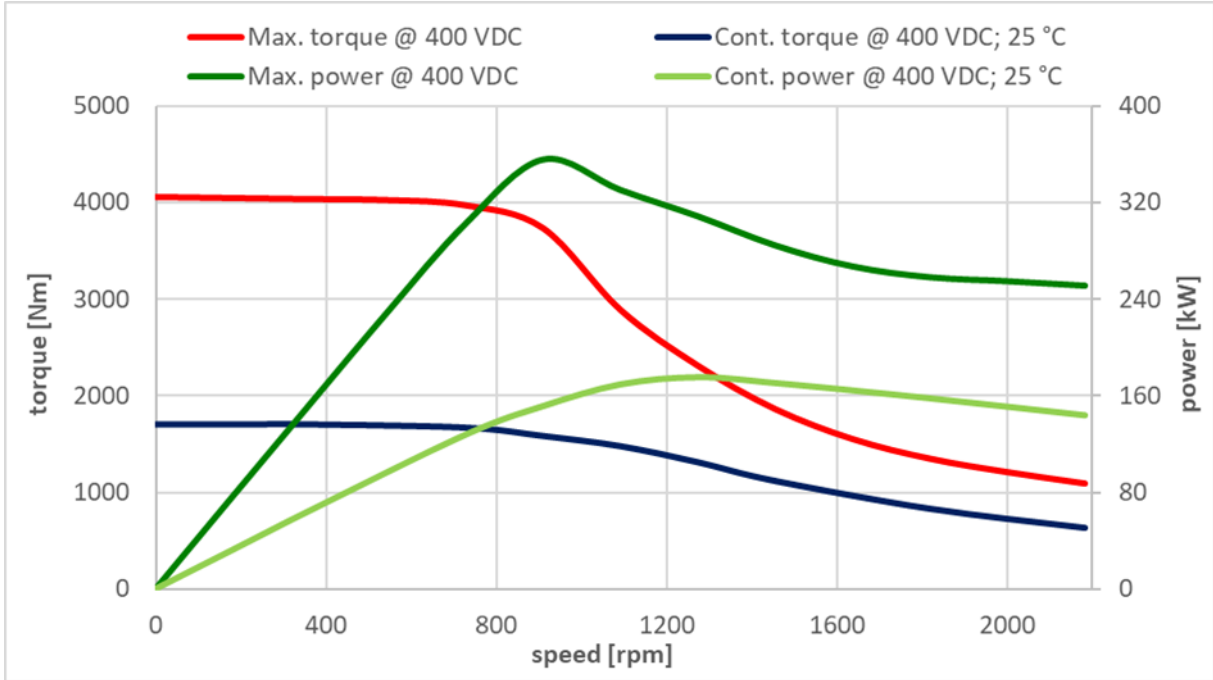
High power density

Constant power over a very
wide speed range

High efficiency over a wide
speed and torque range

Performance data at 400V _{DC}	DTDO1	
Nominal speed	835	rpm
Continuous torque	2x 855	Nm
Maximum torque (at max. inverter current)	2x 2'025	Nm
Continuous power (acc. S1) at 25°C	2x 87	kW
Continuous power (acc. ECE R85) at 25°C	2x 90	kW
Maximum power	2x 177	kW
Maximum speed	2'180	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	1:5.5	
Diameter (cooling jacket)	270	mm
Length	532	mm
Width	643	mm
Height	376	mm
Weight (dry)	148	kg
Oil volume (+/-50ml) first filling	2.8	L
Oil volume (+/-50ml) oil change	2.55	L
Oil type	Castrol BOT 207	
Ingress protection	IP67	
Ambient temperature range (operation)	-40 to +85	°C
Ambient temperature range (storage)	-40 to +85	°C
Amount of coolant in motor	2x 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)	2x 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 DTDO1-055-HSM1-10.18.13



Dimensions [mm]

