

262885 - DC-Motor-Combination - RE16+MENC13+GP16A

Working Point

Control			
Choke			
Motor	139953		
Encoder	262883		
Brake			
Gear	261588		
Front Gear			
Feeding voltage	5.47	V	
Commutation mode	DC (direct)	-	
PWM frequency		kHz	
Voltage control factor	100	%	
DC Link Current	0.0308	A	
Control output reference current	0.0308	A	
Motor Current	0.0308	A	
Stator current, d-axis	0	A	
Desired motor speed	3000	rpm	
Desired output speed	35.6	rpm	
Motor speed	3000	rpm	
Output speed (gear)	35.6	rpm	
Motor torque	0.214	mNm	
Output torque	0	Nm	
Winding temperature	25	°C	
Stator temperature	25	°C	
Ambient temperature	25	°C	
Temperature Calculation	with fixed temperature	-	
El. feeding power (amplifier)	0.169	W	
- Overall losses in the amplifier	0	W	
- Brake losses	0	W	
- Overall motor losses	0.102	W	
-- Joule losses cable	0	W	
-- Joule losses in the commutation syste	0.0019	W	
-- Joule losses winding	0.00963	W	
-- Speed dependent losses	0.0901	W	
-- Additional losses	0	W	
- Overall gear 1 losses	0.0671	W	
- Overall front gear losses	0	W	
Power transferred to load	0	W	
Overall efficiency		%	
Electrical frequency (1st harmonic)	50	Hz	
Winding Resistance, warm	10.1	Ω	
Torque constant, warm	16.2	mNm/A	
Magnet temperature	25	°C	

