

Three-phase asynchronous motor

Properties: Connection: 400 V / 50 Hz three-phase system
 Optional designs for other mains voltages / frequencies
 Optional design for a frequency converter with 3 x 230 V
 Cable connection, optional plug-in connector

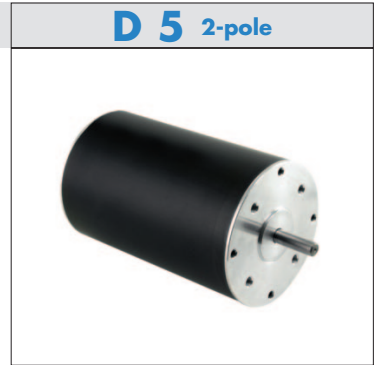
Service life: 20,000 hours, S1 duty

Insulation mat. class: B, optional F

System of protection: IP 40, optional up to IP 65

Special model: Design for short-time duty with high performance

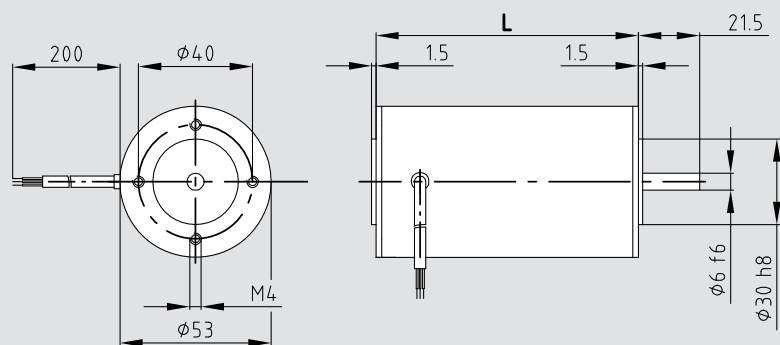
Options: Thermal protection, special shafts, special flanges, custom designed, stainless steel



Type	Name	U	AC voltage	D 542	D 562		
	Nominal voltages			400	400		
Specification	Nominal power	P ₂	W	11.1	19.4		
	Nominal speed	N _{nom}	rpm	2650	2650		
	Nominal torque	T _{nom}	Ncm	4.0	7.0		
	Starting torque	T _A	Ncm	12.0	18.5		
	Nominal current	I _{nom}	mA	66	75		
	No-load current	I ₀	mA	57	67		
Characteristics	Locked rotor speed	n _{break}	rpm	-	-		
	Locked rotor torque	T _{break}	Ncm	-	-		
	Nominal efficiency	η		0.34	0.48		
Connection	Terminal resistance	R	Ohm	1287	982		
	Input power	P ₁	W	28.5	49.5		
Dynamics	Weight	m	kg	0.7	1.0		
	Moment of inertia	J	gcm ²	135	200		
Thermal	Adm. ambient temperature	T _a	°C	-20 to +40	-20 to +40		
	Max. adm. stator temperature	T _{max}	°C	+120	+120		
Coupling	Shaft diameter	d	mm	6	6		
	Max. axial force	F _a	N	8	8		
	Max. radial force	F _r	N	100	100		

Dimensions

Type	L / mm
D 542	92
D 562	112



System technology

Recommended combinations other gears and extensions upon request	Worm gear	S 567
	Spur gear	Z 5 Z 6
	Planetary gear	PM 40
	Rotary encoder	
	Brake	BFK 457

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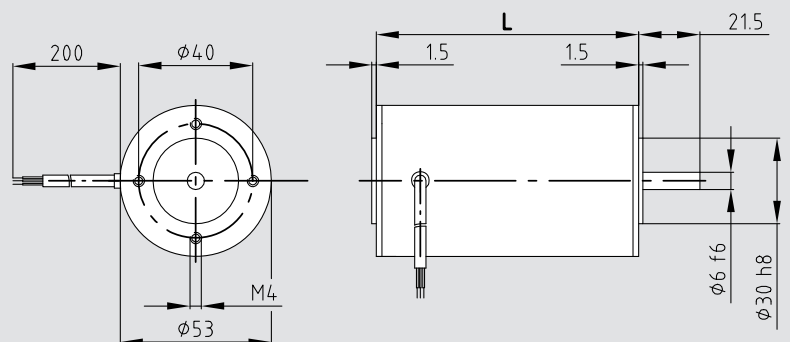
Special model: Design for short-time duty with high performance

Options: Thermal protection, special shafts, special flanges, custom designed, stainless steel

Type	Name	U	AC voltage	D 544	D 564		
	Nominal voltages			400	400		
Specification	Nominal power	P ₂	W	4.3	7.9		
	Nominal speed	N _{nom}	rpm	1250	1250		
	Nominal torque	T _{nom}	Ncm	3.3	6.0		
	Starting torque	T _A	Ncm	6.3	9.0		
	Nominal current	I _{nom}	mA	39	48		
	No-load current	I ₀	mA	44	47		
Characteristics	Locked rotor speed	n _{break}	rpm	-	-		
	Locked rotor torque	T _{break}	Ncm	-	-		
	Nominal efficiency	η		0.20	0.22		
Connection	Terminal resistance	R	Ohm	4404	3435		
	Input power	P ₁	W	19.5	28.0		
Dynamics	Weight	m	kg	0.7	1.0		
	Moment of inertia	J	gcm ²	135	200		
Thermal	Adm. ambient temperature	T _a	°C	-20 to +40	-20 to +40		
	Max. adm. stator temperature	T _{max}	°C	+120	+120		
Coupling	Shaft diameter	d	mm	6	6		
	Max. axial force	F _a	N	8	8		
	max. radial force	F _r	N	100	100		

Dimensions

Type	L / mm
D 544	92
D 564	112



System technology

Recommended combinations
 other gears and extensions upon request

Worm gear	S 567
Spur gear	Z 5 Z 6
Planetary gear	PM 40
Rotary encoder	
Brake	BFK 457