

452741 - ECF 90 Ø90 mm, 130 W

Motor Data

Rated Voltage	24	V
No-load speed	838	rpm
No-load current	140	mA
Rated speed	611	rpm
Rated torque	964	mNm
Rated current	3.27	A
Stall torque	6010	mNm
Stall current	22.3	A
Max. efficiency	85	%
Terminal Resistance	1.08	Ohm
Terminal Inductance	2.2	mH
Torque constant	270	mNm/A
Speed constant	35.4	rpm/V
Speed/torque gradient	0.141	rpm/mNm
Mechanical time constant	7.48	ms
Rotor inertia	5060	gcm ²

Specifications

Therm. resistance housing-ambient	2.49	K/W
Therm. resistance winding-housing	2.28	K/W
Therm. time constant winding	70.9	s
Therm. time constant motor	370	s
Ambient temperature min.	-40	°C
Ambient temperature max.	125	°C
Max. winding temperature	125	°C
Max. permissible speed	5000	rpm
Axial play, maximum		mm
Axial play, minimum		mm
Preload force, minimum	15	N
Radial play, maximum		mm
Max. dynamic axial force	12	N
Max. static axial force	150	N
Max. static axial force, shaft supported	8000	N
Max. radial force	30	N
mm from flange	7.5	mm
Pole pair number	12	-
Phase number	3	-
Weight	735	g

Operating Range

