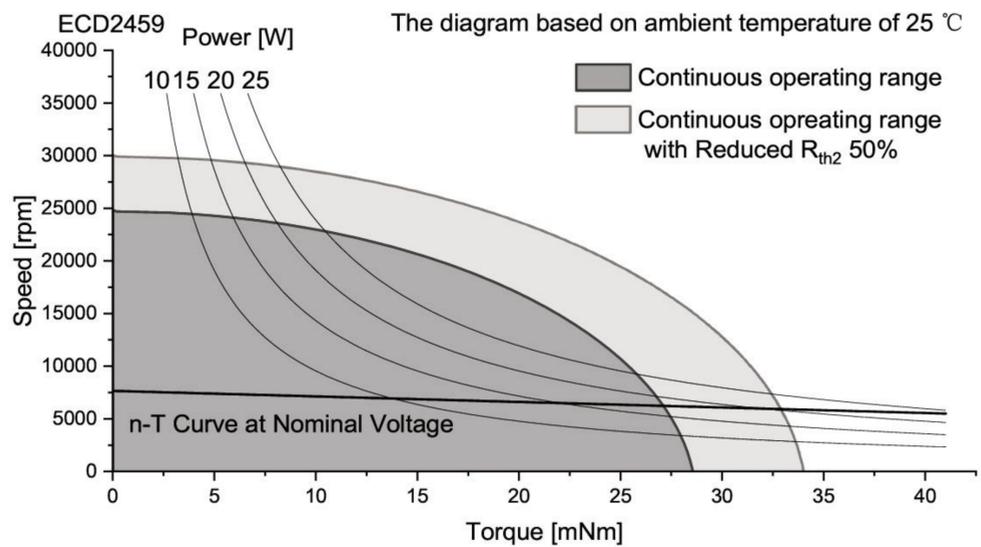


With hall sensor		ECD2459S-...	1207	2407					
Motor data									
Values at nominal voltage									
1	Nominal voltage	V	12	24					
2	No load speed	rpm	7699	7655					
3	No load current	mA	118	73					
4	Nominal speed	rpm	6640	6597					
5	Nominal torque	mNm	20	20					
6	Nominal current	A	1.48	0.75					
7	Stall torque	mNm	145.35	144.73					
8	Stall current	A	10.00	4.98					
9	Max. efficiency	%	79.5	77.2					
10	Supply voltage +Vcc	V	10..28	10..28					
11	Direction of rotation		CW	CW					
12	Torque constant	mNm/A	14.71	29.50					
13	Speed constant	rpm/V	649	324					
14	Speed/torque gradient	rpm/mNm	53	53					
15	Mechanical time constant	ms	3.3	3.3					
16	Rotor inertia	gcm ²	5.9	5.9					

17	Thermal resistance housing-ambient	10.2 K/W
18	Thermal resistance winding-housing	6.4 K/W
19	Thermal time constant winding	36 s
20	Thermal time constant motor	555 s
21	Ambient temperature	-30...+100°C
22	Max. permissible winding temperature	+150°C
23	Max. permissible speed	30000 rpm
24	Axial play at axial load	<4 N 0 mm >4 N max. 0.3 mm
25	Radial play	preloaded
26	Max. axial load (dynamic)	3.5 N
27	Max. force for press fits (static)	44 N
	(static, shaft supported)	1200 N
28	Max. radial loading, 5mm from flange	15 N
29	Number of pole pairs	1
30	Number of phases	3
31	Weight of motor	130 g

Operating Range



Controller features	
Sensor, Open loop, $I_{max} < 1.5A$	
Overload protection, Stall protection	
Max. temperature of electronics	+105°C

Connection			
Conection		PTFE	
Pin 1 +VCC		AWG24	red
Pin 2 GND		AWG24	black

Caution:
Incorrect lead connection will damage the controller!

Configuration	
Function:	On&Off/Direction/Speed control/Brake
	Speed closed&open-loop Control/Speed feedback
Performance:	Customized in the continuous operating range
Ball bearing:	Preload
Flange:	Standard frange front&back/customize the frange
Shaft:	Length/Diameter/Cut face
Leadwire:	PVC/Silicon/Teflon/UL No/Dimension/length
Connector:	JST/MOLEX/TE
More:	Please contact our sales engineers