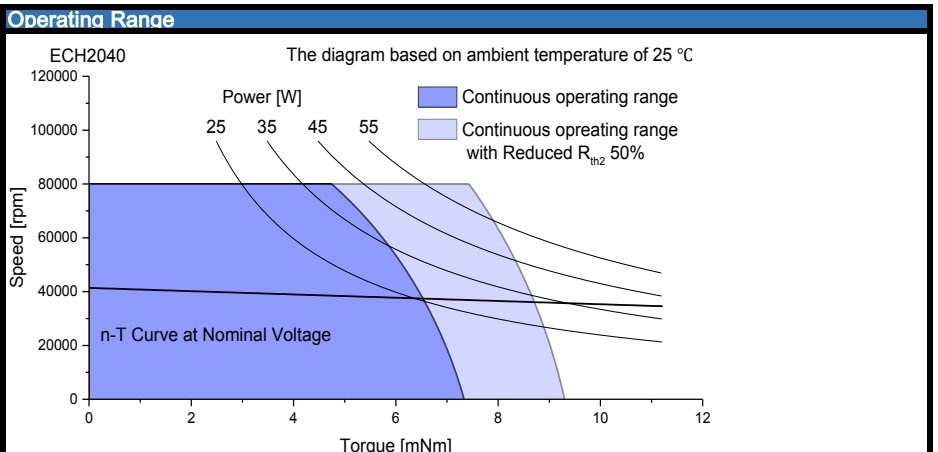


	Sensorless	ECH2040L-...	2440	3040	3640				
	With hall sensor	ECH2040S-...							
Values at nominal voltage									
1	Nominal voltage	V	24	30	36				
2	No load speed	rpm	41392	40700	40020				
3	No load current	mA	69	60	55				
4	Nominal speed	rpm	37500	36777	36049				
5	Nominal torque	mNm	6,3	6,3	6,3				
6	Nominal current	A	1,21	0,96	0,79				
7	Stall torque	mNm	67	65,4	63,5				
8	Stall current	A	12,2	9,4	7,5				
9	Max. efficiency	%	85,5	84,7	83,6				

10	Terminal resistance	Ω	1,96	3,19	4,8				
11	Terminal inductance	mH	0,21	0,47	0,47				
12	Torque constant	mNm/A	5,51	6,99	8,53				
13	Speed constant	rpm/V	1734	1365	1120				
14	Speed/torque gradient	rpm/mNm	618	623	630				
15	Mechanical time constant	ms	4,5	4,5	4,6				
16	Rotor inertia	gcm ²	0,7	0,7	0,7				

17	Thermal resistance housing-ambient	18.7 K/W
18	Thermal resistance winding-housing	1.9 K/W
19	Thermal time constant winding	5 s
20	Thermal time constant motor	397 s
21	Ambient temperature	-40...+100°C
22	Max. permissible winding temperature	+150°C
23	Max. permissible speed	80000 rpm
24	Axial play at axial load	<3 N 0 mm >3 N max. 0.3 mm
25	Radial play	preloaded
26	Max. axial load (dynamic)	2.5 N
27	Max. force for press fits (static)	44 N
	(static, shaft supported)	1200 N
28	Max. radial loading, 5mm from flange	11 N
29	Number of pole pairs	1
30	Number of phases	3
31	Weight of motor	53 g



Connection			
Connection A (Sensor)			
	PVC		
Pin 1	Vhall 3-18 VDC	AWG26	black
Pin 2	Hall sensor HA	AWG26	black
Pin 3	Hall sensor HB	AWG26	black
Pin 4	Hall sensor HC	AWG26	black
Pin 5	GND	AWG26	black
Pin 6	Motor winding MA	AWG26	black
Pin 7	Motor winding MB	AWG26	black
Pin 8	Motor winding MC	AWG26	black
Connector JST PH2.0-8P			
Connection B (Sensorless)			
	PTFE		
Pin 1	Motor winding MA	AWG26	yellow
Pin 2	Motor winding MB	AWG26	green
Pin 3	Motor winding MC	AWG26	blue

Configuration

Performance: Customized in the continuous operating range
 Ball bearing: Preload
 Flange: Standard frange front&back/customize the frange
 Shaft: Length/Diameter/Cut face/double shaft/hollow shaft
 Leadwire: PVC/Silicon/Teflon/UL No/Dimension/length
 Connector: JST/MOLEX/TE