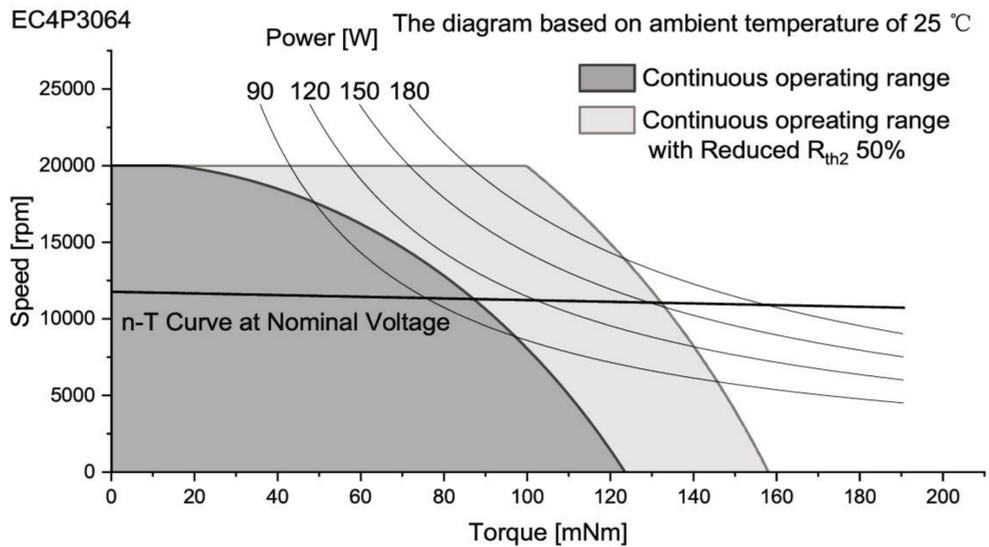


M 1:1.8

		EC4P3064L-...	EC4P3064S-...	2412	3612	4812
Motor data						
Sensorless		EC4P3064L-...				
With hall sensor		EC4P3064S-...				
Values at nominal voltage						
1	Nominal voltage	V		24	36	48
2	No load speed	rpm		12119	12376	12413
3	No load current	mA		520	280	210
4	Nominal speed	rpm		11716	11984	12032
5	Nominal torque	mNm		80	80	80
6	Nominal current	A		4.77	3.17	2.38
7	Stall torque	mNm		2407.46	2522.52	2606.50
8	Stall current	A		128.34	91.37	71.01
9	Max. efficiency	%		87.7	89.2	89.4
10	Terminal resistance	Ω		0.19	0.39	0.68
11	Terminal inductance	mH		0.026	0.061	0.101
12	Torque constant	mNm/A		18.83	27.69	36.82
13	Speed constant	rpm/V		507	345	259
14	Speed/torque gradient	rpm/mNm		5	5	5
15	Mechanical time constant	ms		1.8	1.7	1.7
16	Rotor inertia	gcm ²		33.8	33.8	33.8

17	Thermal resistance housing-ambient	7.5 K/W
18	Thermal resistance winding-housing	2.1 K/W
19	Thermal time constant winding	26 s
20	Thermal time constant motor	1100 s
21	Ambient temperature	-30...+100°C
22	Max. permissible winding temperature	+150°C
23	Max. permissible speed	20000 rpm
24	Axial play at axial load	<8 N 0 mm >8 N max. 0.3 mm
25	Radial play	preloaded
26	Max. axial load (dynamic)	7.5 N
27	Max. force for press fits (static)	100 N
	(static, shaft supported)	2700 N
28	Max. radial loading, 5mm from flange	25 N
29	Number of pole pairs	2
30	Number of phases	3
31	Weight of motor	286 g

Operating Range



Connection

Conection A (Sensor)		PTFE	
Pin 1	Motor winding MA	AWG20	yellow
Pin 2	Motor winding MB	AWG20	green
Pin 3	Motor winding MC	AWG20	blue
Pin 4	Vhall 3-18 VDC	AWG26	red
Pin 5	GND	AWG26	black
Pin 6	Hall sensor HA	AWG26	white
Pin 7	Hall sensor HB	AWG26	orange
Pin 8	Hall sensor HC	AWG26	gray

Conection B (Sensorless)		PVC	
Pin 1	Motor winding MA	AWG20	yellow
Pin 2	Motor winding MB	AWG20	green
Pin 3	Motor winding MC	AWG20	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