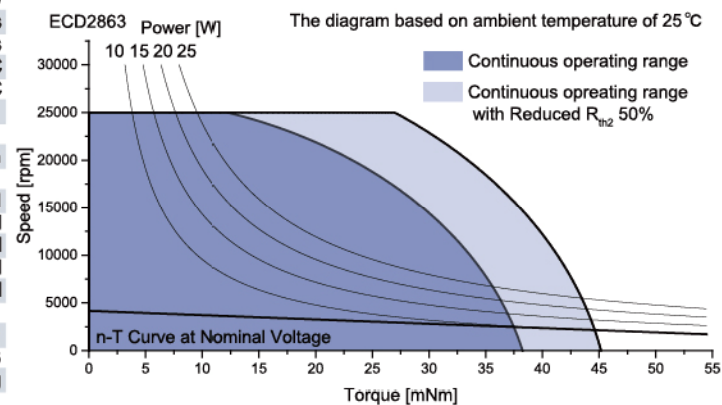


| With hall sensor ECD2863S-... | | 1204 | 2404 |
|----------------------------------|--------------------------|------------------|---------------|
| Motor data | | | |
| Values at nominal voltage | | | |
| 1 | Nominal voltage | V | 12 24 |
| 2 | No load speed | rpm | 4168 4163 |
| 3 | No load current | mA | 70 60 |
| 4 | Nominal speed | rpm | 3264 3033 |
| 5 | Nominal torque | mNm | 25 25 |
| 6 | Nominal current | A | 0.99 0.53 |
| 7 | Stall torque | mNm | 115 92.1 |
| 8 | Stall current | A | 4.33 1.79 |
| 9 | Max. efficiency | % | 76.2 66.7 |
| 10 | Supply voltage +Vcc | V | 10..28 10..28 |
| 11 | Direction of rotation | | CW CW |
| 12 | Torque constant | mNm/A | 27 53.2 |
| 13 | Speed constant | rpm/V | 353 179 |
| 14 | Speed/torque gradient | rpm/mNm | 36.2 45.2 |
| 15 | Mechanical time constant | ms | 3.2 4.0 |
| 16 | Rotor inertia | gcm ² | 8.5 8.5 |

| | | |
|----|--------------------------------------|--------------|
| 17 | Thermal resistance housing-ambient | 7.1 K/W |
| 18 | Thermal resistance winding-housing | 5 K/W |
| 19 | Thermal time constant winding | 51 s |
| 20 | Thermal time constant motor | 552 s |
| 21 | Ambient temperature | -40...+100°C |
| 22 | Max. permissible winding temperature | +150°C |
| 23 | Max. permissible speed | 25000 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) | 2000 N |
| 28 | Max. radial loading, 5mm from flange | 25 N |
| 29 | Number of pole pairs | 1 |
| 30 | Number of phases | 3 |
| 31 | Weight of motor | 188 g |

Operating Range



| Controller features | |
|---------------------------------------|--------|
| Sensor, Open loop, Imax < 1.8A | |
| Overload protection, Stall protection | |
| Max. temperature of electronics | +105°C |

Connection

| | | |
|------------------|-------|-------|
| Conection | PTFE | |
| Pin 1 +VCC | AWG20 | red |
| Pin 2 GND | AWG20 | 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 within 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