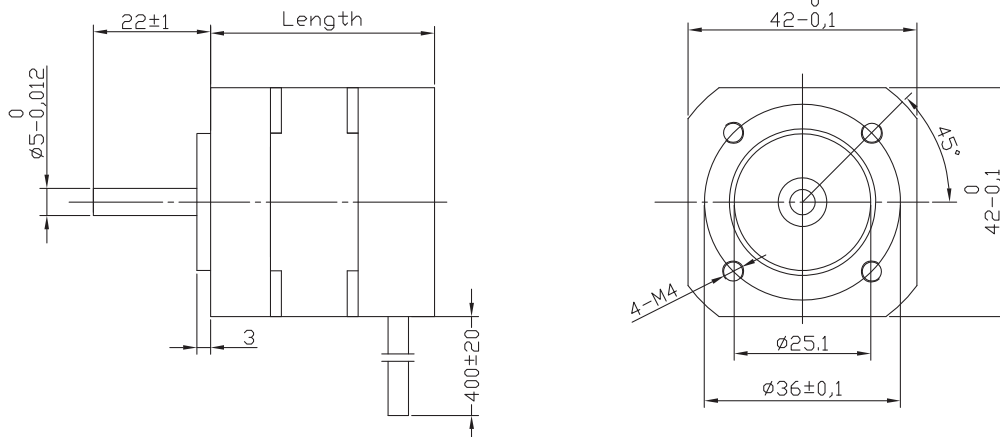


# Brushless Motor 42BLH



## Characteristics

<b>HALL EFFECT ANGLE</b> 120° electric angle
<b>SHAFT RUN OUT</b> 0,025 mm
<b>INSULATION CLASS</b> B
<b>RADIAL PLAY</b> 0,02 mm 450g load
<b>AXIAL PLAY</b> 0,08 mm 450g load
<b>MAX RADIAL FORCE</b> 28N 10mm from flange
<b>max axial force</b> 10N
<b>DIELECTRIC STRENGTH</b> 500 VDC for one minute
<b>INSULATION RESISTANCE</b> 100 M ohm min. 500 VDC

## Specification

Model	42BLH01	42BLH02	42BLH03	42BLH04
<b>1 N° OF POLE</b>	10	10	10	10
<b>2 N° OF PHASE</b>	3	3	3	3
<b>3 RATED VOLTAGE</b> V	24	24	24	24
<b>4 RATED SPEED</b> RPM	3000	3000	3000	3000
<b>5 RATED TORQUE</b> NM	0,07	0,16	0,26	0,36
<b>6 MAX PEAK TORQUE</b> NM	0,3	0,65	1,1	1,44
<b>7 TORQUE CONSTANT</b> NM/A	0,054	0,054	0,054	0,054
<b>8 LINE TO LINE RESISTANCE</b> Ω	2,6	1,1	0,7	0,48
<b>9 LINE TO LINE INDUCTANCE</b> MH	1,83	0,96	0,58	0,44
<b>10 MAX PEAK CURRENT</b> A	6,2	11,8	16,8	25,6
<b>11 LENGTH</b> MM	40,3	60,3	80,3	100,3
<b>12 ROTOR INERTIA</b> G-CM <sup>2</sup>	48	101	154	207
<b>13 WEIGHT</b> KG	0,3	0,45	0,65	0,8

## Connection

LEAD N°	COLOR	GAUGE	FUNCTION
1	RED	UL1430 AWG26	VCC HALL SENSOR +5 TO +24 VDC
2	BLUE	UL1430 AWG26	HALL A
3	GREEN	UL1430 AWG26	HALL B
4	WHITE	UL1430 AWG26	HALL C
5	BLACK	UL1430 AWG26	GND HALL SENSOR GROUND
6	YELLOW	UL1430 AWG20	PHASE U
7	RED	UL1430 AWG20	PHASE V
8	BLACK	UL1430 AWG20	PHASE W