



Dimensions in mm.

42BL**BLDC - 42MM****Specifications**

MODEL		42BL41	42BL61	42BL81	42BL100	
1	N° OF POLE	8	8	8	8	
2	N° OF PHASE	3	3	3	3	
3	RATED VOLTAGE	V	24	24	24	
4	RATED SPEED	RPM	4000	4000	4000	
5	RATED TORQUE	NM	0,0625	0,125	0,185	0,25
6	MAX PEAK TORQUE	NM	0,19	0,38	0,56	0,75
7	TORQUE CONSTANT	NM/A	0,035	0,036	0,036	0,036
8	LINE TO LINE RESISTANCE	Ω	1,8	0,72	0,55	0,28
9	LINE TO LINE INDUCTANCE	MH	2,6	1,2	0,8	0,54
10	MAX PEAK CURRENT	A	5,4	10,6	15,5	20
11	LENGTH	MM	41	61	81	100
12	ROTOR INERTIA	G-CM ²	24	48	72	96
13	WEIGHT	KG	0,3	0,45	0,65	0,8

Characteristics**HALL EFFECT ANGLE**

120 ° ELECTRIC ANGLE

SHAFT RUN OUT

0,025 MM

INSULATION CLASS

B

RADIAL PLAY

0,02 MM 450G LOAD

AXIAL PLAY

0,08 MM 450G LOAD

MAX RADIAL FORCE

28 N (10 MM FROM FLANGE)

MAX AXIAL FORCE

10 N

DIELECTRIC STRENGTH

500 VDC FOR ONE MINUTE

INSULATION RESISTANCE

100 M OHM MIN. 500 VDC

Connection

LEAD N°	COLOR	GAUGE	FUNCTION
1	RED	UL1007 AWG26	Vcc HALL SENSOR +5 TO +24 VDC
2	BLUE	UL1007 AWG26	HALL A
3	GREEN	UL1007 AWG26	HALL B
4	WHITE	UL1007 AWG26	HALL C
5	BLACK	UL1007 AWG26	GND HALL SENSOR GROUND
6	YELLOW	UL1007 AWG20	PHASE U
7	RED	UL1007 AWG20	PHASE V
8	BLACK	UL1007 AWG20	PHASE W