



BE version: rear shaft 13mm- 2x M2.5 on diam. 19.05 mm

Characteristics

HALL EFFECT ANGLE
120 ° ELECTRIC ANGLE

SHAFT RUN OUT
0,025 MM

INSULATION CLASS
B

RADIAL PLAY
0,02 MM (450 G LOAD)

AXIAL PLAY
0,08 MM (450 G LOAD)

MAX RADIAL FORCE
28 N (10 MM FROM FLANGE)

MAX AXIAL FORCE
10 N

DIELECTRIC STRENGTH
500 VDC FOR ONE MINUTE

MAX AXIAL FORCE
100 M OHM MIN. 500 VDC

Specification

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	24
4	RATED SPEED	RPM 4000	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

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
6	YELLOW	UL1430 AWG20	PHASE U
7	RED	UL1430 AWG20	PHASE V
8	BLACK	UL1430 AWG20	PHASE W