



Dimensions in mm.



## Specifications

MODEL	86BL58		86BL71		86BL98		86BL125	
1 N° OF POLE	-	8	-	8	-	8	-	8
2 N° OF PHASE	-	3	-	3	-	3	-	3
3 RATED VOLTAGE V	-	48	-	48	-	48	-	48
4 TERMINA RESISTANCE Ω	-	1,05	-	0,36	-	0,2	-	0,16
5 LINE TO LINE INDUCTANCE MH	-	2,02	-	1,05	-	0,48	-	0,3
6 LENGTH MM	-	58	-	71	-	98	-	125
7 ROTOR INERTIA G-CM <sup>2</sup>	-	400	-	800	-	1600	-	2400
8 WEIGHT KG	-	1,5	-	1,85	-	2,6	-	4
CONNECTION	STAR	DELTA	STAR	DELTA	STAR	DELTA	STAR	DELTA
9 RATED SPEED	3000	6000	3000	6000	3000	6000	3000	6000
10 RATED TORQUE Nm	0,35	0,175	0,7	0,35	1,4	0,7	2,1	1,05
11 MAX PEAK TORQUE Nm	1,05	0,52	2,1	1,05	4,2	2,1	6,3	3,2
12 TORQUE CONSTANT Nm/A	0,104	0,06	0,11	0,07	0,13	0,077	0,11	0,075
13 MAX PEAK CURRENT A	11	10	19	17	33	30	55	46

## 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

220 N (20 MM FROM FLANGE)

### MAX AXIAL FORCE

60 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 YELLOW/WHITE	UL1007 AWG20	PHASE U
7	RED RED/WHITE	UL1007 AWG20	PHASE V
8	BLACK BLACK/WHITE	UL1007 AWG20	PHASE W