



BE version: rear shaft 13mm- 2x M2.5 on diam. 46 mm

## Characteristics

**HALL EFFECT ANGLE**  
120 ° ELECTRIC ANGLE

**SHAFT RUN OUT**  
0,05 MM

**INSULATION CLASS**  
B

**RADIAL PLAY**  
0,02 MM (450 G LOAD)

**AXIAL PLAY**  
0,08 MM (450 G 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

## Specification

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 RATED SPEED RPM	3000	3000	3000	3000
5 RATED TORQUE Nm	0,35	0,7	1,4	2,1
6 MAX PEAK TORQUE Nm	1,05	2,1	4,2	6,3
7 TORQUE CONSTANT Nm/A	0,116	0,124	0,127	0,128
8 LINE TO LINE RESISTANCE Ω	0,90	0,34	0,16	0,10
9 LINE TO LINE INDUCTANCE mH	2,60	1,00	0,50	0,31
10 MAX PEAK CURRENT A	9,5	20	24	56
11 LENGTH MM	58	71	98	125
12 ROTOR INERTIA g-cm <sup>2</sup>	400	800	1600	2400
13 WEIGHT Kg	1,6	2,12	3,15	4,2

## Connection

LEAD N°	COLOR	GAUGE	FUNCTION
1	RED	UL1332 AWG22	VCC HALLSENSOR +5 TO +24 VDC
2	BLUE	UL1332 AWG22	HALL A
3	GREEN	UL1332 AWG22	HALL B
4	WHITE	UL1332 AWG22	HALL C
5	BLACK	UL1332 AWG22	GND HALL SENSOR
6	YELLOW YELLOW/WHITE	UL1332 AWG18	PHASE U
7	RED RED/WHITE	UL1332 AWG18	PHASE V
8	BLACK BLACK/WHITE	UL1332 AWG18	PHASE W

