



## SPECIFICATION

Model		42RBL30	42RBL60	42RBL85	
1	N° OF POLE	8	8	8	
2	N° OF PHASE	3	3	3	
3	RATED VOLTAGE	V	24	24	
4	RATED SPEED	rpm	4000	4000	
5	RATED TORQUE	Nm	0,02	0,06	0,15
6	MAX PEAK TORQUE	Nm	0,06	0,18	0,45
7	TORQUE CONSTANT	Nm/A	0,039	0,038	0,036
8	LINE TO LINE RESISTANCE	Ω	5,9	1,6	0,71
9	LINE TO LINE INDUCTANCE	mH	5,1	1,94	0,86
10	MAX PEAK CURRENT	A	1,7	4,4	11,4
11	RATED CURRENT	A	0,51	1,58	4,17
12	NO-LOAD CURRENT	mA	160	230	280
13	LENGTH	mm	30	60	85
14	ROTOR INERTIA	g-cm <sup>2</sup>	15,6	33	84
15	WEIGHT	Kg	0,25	0,4	0,7



## CONNECTION

Lead N°	Color	Gauge	Function
1	YELLOW	UL1430 AWG26	VCC HALL SENSOR +5 TO +24 VDC
2	BLUE	UL1430 AWG26	HALL A
3	ORANGE	UL1430 AWG26	HALL B
4	BROWN	UL1430 AWG26	HALL C
5	WHITE	UL1430 AWG26	HALL SENSOR GROUND
6	GREEN	UL1430 AWG22	PHASE U
7	RED	UL1430 AWG22	PHASE V
8	BLACK	UL1430 AWG22	PHASE W

## CHARACTERISTICS

Item	
HALL EFFECT ANGLE	120°
SHAFT RUN OUT	0,025 mm
INSULATION CLASS	B
RADIAL PLAY (450 g LOAD)	0,02 mm
AXIAL PLAY (450 g LOAD)	0,08 mm
MAX RADIAL FORCE (10 mm FROM FRONT FLANGE)	15N
MAX AXIAL FORCE	10N
DIELECTRIC STRENGTH	500 VDC FOR ONE MINUTE
INSULATION RESISTANCE	100 Mohm min. 500 VDC