



### Options



Gearboxes



Drive

### Characteristics

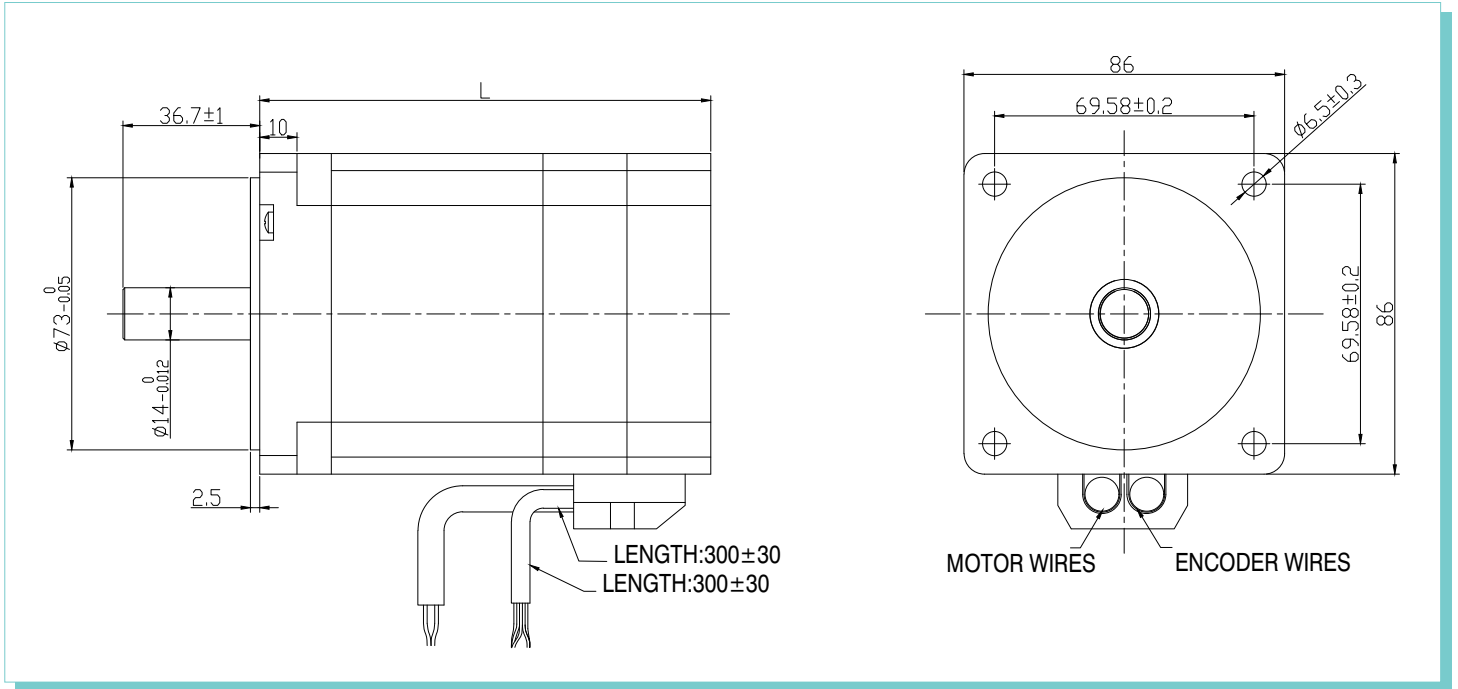
Number of pole	8
Number of phase	3
Hall effect angle	120°
Shaft run out	0,05 mm
Encoder Type*	Optical - Incremental 1000 CPR / 2 Channels
Insulation Class	B
Max radial force (20mm from flange)	220N
Max axial force	65N
Dielectric Strength (for 1 min)	500 VDC
Insulation Resistance (min. 500 VDC)	100 Mohm

### Model

	Rated Voltage V	Rated Speed RPM	Rated Torque Nm	Max Peak Torque Nm	Torque Constant Nm/A	Line to Line Resistance Ω	Line to Line Inductance mH	Max Peak Current A	No-Load Current mA	Rotor Inertia g-cm <sup>2</sup>	Weight Kg	Length mm
BL86080-130E.000	48	3000	0,4	1,2	0,122	1	1,40	10	380	400	1,50	80
BL86093-250E.000	48	3000	0,8	2,4	0,130	0,45	0,75	17	550	800	1,85	93
BL86121-500E.000	48	3000	1,6	4,8	0,135	0,14	0,36	36	860	1600	2,70	121

### Product Combination

Family Name	Code	Communication Bus	Page
Gemini	B400B30T001-S200	Ethernet ModBus TCP	6
Gemini	B400B30E001-S402	Ethercat	6
Gemini	B400B30C001-S402	Can Open	6
Gemini	B400B30M001-S200	ModBus 485	6



## Connection

No.	Lead Color	Wire Gauge	Function	Description
1	Red/White	AWG26	GND	Ground
2	Red		VCC: +5VDC	Positive supply voltage
3	Blue		EA-	Encoder
4	Blue/Black		EA+	
5	Black		EB-	
6	Black/White		EB+	Hall Sensor
7	Brown		HALL A	
8	Orange		HALL B	
9	Yellow		HALL C	
1	Yellow	AWG16	Phase U	Motor Phase
2	Red		Phase V	
3	Black		Phase W	

\* 3 Channel encoder or other encoder type possible (On request)