

### SERVO MOTOR 115U3C306BAECA115190



### Definition

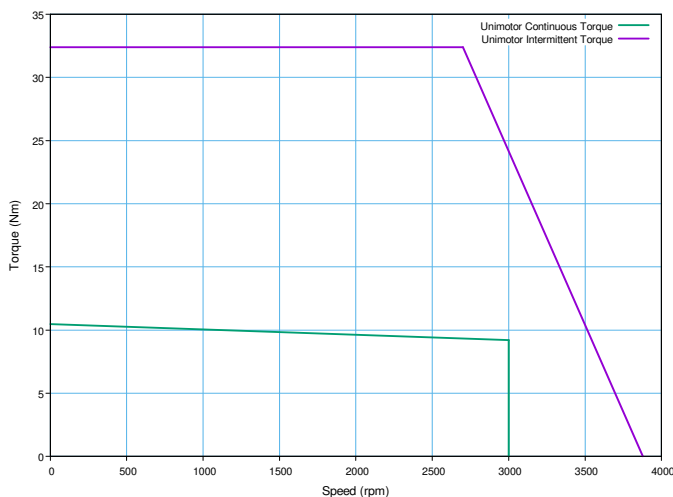
Type	<b>Unimotor FM</b>	
Frame Size (mm)	<b>115</b>	
Voltage	<b>U</b>	U - 400V
Magnet type	<b>3</b>	3 - Standard
Frame Length	<b>C</b>	
Speed (min-1)	<b>30</b>	3000
Brake	<b>6</b>	Braked (6)
Connection type	<b>B</b> - Power and Signal 90° rotatable	
Output shaft	<b>A</b>	Key
Feedback device code	<b>EC</b> - Inductive EnDat SinCos Multi-Turn (EQI 1331)	
Inertia & thermistor	<b>A</b>	A - Standard
PCD	<b>115</b>	115 (FF 115 / 95)
Shaft Diameter	<b>190</b>	19j6 x 40,0 .
Fan box	-	
Classe d'isolation	<b>F</b>	
UL Motor / UL Stator	<b>UL Motor / UL Stator</b>	

### Nominal characteristics

Motor Ambient Temperature (°C)	40	Drive Fsw (kHz)	12
Motor Stall Torque (N.m)	10,80	Stall Current (A)	6,80
Rated Torque (N.m)	9,50	Rated Current (A)	5,9
Motor Peak Torque (N.m)	32,40	Peak Current for Drive Selection (A)	20,25
Rated Power (kW)	2,98	Kt (Nm/A)	1,60
Winding Thermal Time Constant (s)	116	Ke (V/kmin-1)	98,00
Number of Poles	6	R (ph-ph) (Ohm)	2,30
Maximum Cogging (N.m)	0.14	L (ph-ph) (mH)	15,57
Inertia (kg.cm <sup>2</sup> )	10,41	Peso del prodotto	11,55
Ingress Protection Level (IP)	IP65		

Brake	<b>Braked (6)</b>	Static Torque (N.m)	16,0
Release Time (ms)	120	Backlash (°)	3,00
Brake Supply Voltage (V)	24	Brake Coil Power (W)	23,0

### Torque / speed graph

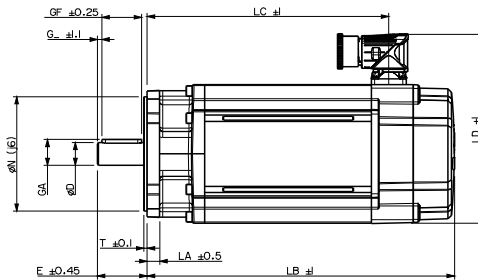
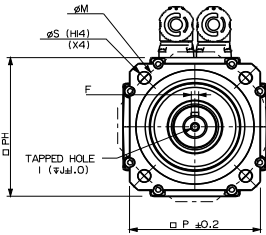


### Configured characteristics

Motor Ambient Temperature (°C)	40
Drive Fsw (kHz)	8
Derating Factor	0,97
Stall Torque with Derating Factor (N.m)	10,48
Nominal Torque after Derating (N.m)	9,21
Peak Torque with Derating Factor (N.m)	32,40

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#### Motor (° & mm)



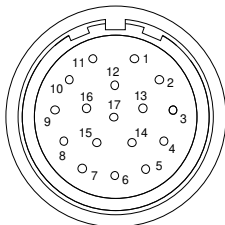
LB	Total length	323,60
LB1		
LC	Power connector position	283,80
LJ		
LA	Flange thickness	10,1
T	Register Length	2,8
N	Register Diameter	95,0
LD	Power connector overall height	156,50
LD1		
P	Flange Square	105,0
S	Fixing Hole Diameter	10,0
M	Fixing hole PCD	115
PH	Motor Housing Width	115
D	Shaft Diameter	19j6
E	Shaft Length	40,0
GA	Key Height	21,5
GF	Key Length	32,0
G	Key to Shaft End	3,6
F	Key Width	6
I	Tapped Hole Thread Size	M6x1
J	Tapped Hole Depth	17,0
	Mounting Bolt	M8

#### Motor electrical interface

Feedback device code : EC - Inductive EnDat SinCos Multi-Turn (EQI 1331)

Connection type :  
Section des fils :

B - Power and Signal 90° rotatable  
4G1 + 2x 0.5 (A)



- |            |             |
|------------|-------------|
| 1 - CTP    | 10 - COS    |
| 2 - CTP    | 11 - DATA   |
| 3 - Screen | 12 - DATA / |
| -          | 13 - COS /  |
| -          | 14 - SIN /  |
| -          | 15 - SIN /  |
| 8 - CLK    | 16 - Power  |
| 9 - CLK /  | 17 - 0V     |
|            | Screen      |

- U - Phase U  
V - Phase V  
W - Phase W  
Screen

- B+ Brake +  
B- Brake -

