

### SERVO MOTOR 115U3D306BACAA115240



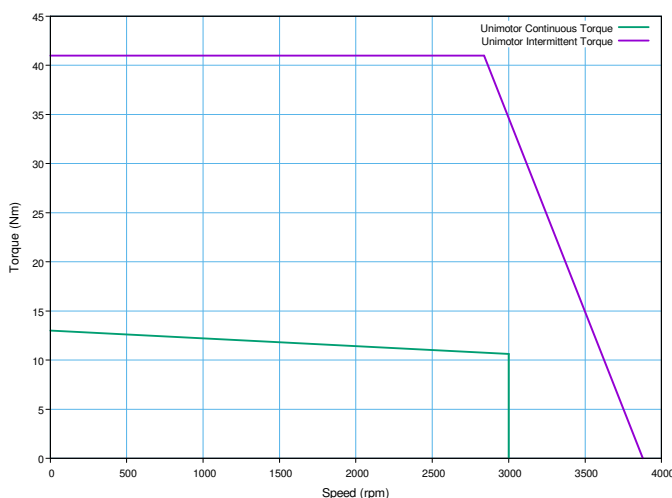
#### Definition

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>D</b>	
Speed (min-1)	<b>30</b>	3000
Brake	<b>6</b>	Braked (6)
Connection type	<b>B</b>	B - Power and Signal 90° rotatable
Output shaft	<b>A</b> Key	
Feedback device code	<b>CA</b>	CA - 4096 ppr Incremental encoder (CFS50)
Inertia & thermistor	<b>A</b> A - Standard	
PCD	<b>115</b> 115 (FF 115 / 95)	
Shaft Diameter	<b>240</b> 24j6 x 50,0 .	
Fan box	<b>-</b>	
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)	13,70	Stall Current (A)	8,50
Rated Torque (N.m)	11,20	Rated Current (A)	7
Motor Peak Torque (N.m)	41,00	Peak Current for Drive Selection (A)	25,62
Rated Power (kW)	3,52	Kt (Nm/A)	1,60
Winding Thermal Time Constant (s)	127	Ke (V/kmin-1)	98,00
Number of Poles	6	R (ph-ph) (Ohm)	1,53
Maximum Cogging (N.m)	0.41	L (ph-ph) (mH)	11,60
Inertia (kg.cm <sup>2</sup> )	12,91	Peso del prodotto	14,66
Ingress Protection Level (IP)	IP65		
Brake	<b>Braked (6)</b>	Static Torque (N.m)	16,0
Release Time (ms)	120	Backlash (°)	0,38
Brake Supply Voltage (V)	24	Brake Coil Power (W)	23,0

#### Torque / speed graph

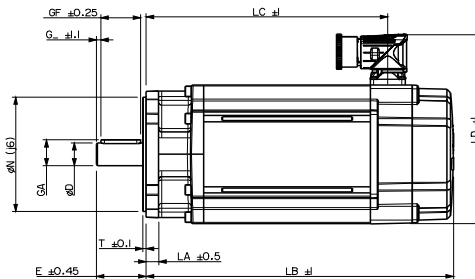
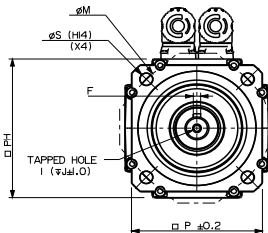


#### Configured characteristics

Motor Ambient Temperature (°C)	40
Drive Fsw (kHz)	8
Derating Factor	0,95
Stall Torque with Derating Factor (N.m)	13,01
Nominal Torque after Derating (N.m)	10,64
Peak Torque with Derating Factor (N.m)	41,00

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#### Motor (° & mm)



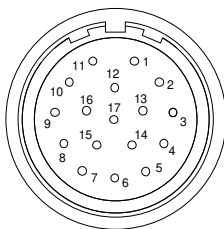
LB	Total length	366,60
LB1		
LC	Power connector position	313,80
LJ		
LA	Flange thickness	10,1
T	Register Length	2,8
N	Register Diameter	95,0
LD	Power connector overall height	156,50
LD1		
P	Flange Square	105,0
S	Fixing Hole Diameter	10,0
M	Fixing hole PCD	115
PH	Motor Housing Width	115
D	Shaft Diameter	24j6
E	Shaft Length	50,0
GA	Key Height	27,0
GF	Key Length	40,0
G	Key to Shaft End	4,6
F	Key Width	8
I	Tapped Hole Thread Size	M8x1,25
J	Tapped Hole Depth	20,0
	Mounting Bolt	M8

#### Motor electrical interface

Feedback device code : CA - 4096 ppr Incremental encoder (CFS50)

Connection type :  
Section des fils :

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



1 - CTP	10 - A
2 - CTP	11 - Index
3 -	12 - Index /
4 - S1	13 - A /
5 - S1 /	14 - B
6 - S2	15 - B /
7 - S2 /	16 - Power
8 - S3	17 - 0V
9 - S3 /	Screen

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

B+ Brake +  
B- Brake -

