







Data sheet

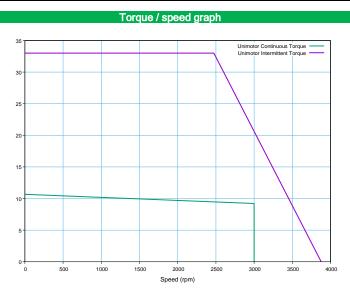
N°: Date: 14 janv. 2020

### SERVO MOTOR 142U3B30X...with hand release brake

<u>Definition</u>					
Туре	Unimotor FM				
Frame Size (mm)	142				
Voltage	U	U - 400V			
Magnet type	3	3 - Standard			
Frame Length	В				
Speed (min-1)	30	3000			
Brake	X	Special Brake			
Connection type	В	B - Power and Signal 90° rotatable			
Output shaft	В	No key			
Feedback device code	EB	EB - Optical EnDat SinCos MultiTturn (EQN 1325)			
Inertia & thermistor	С	C - Standard inertia + KTY84-130 thermistor			
PCD	165	165 (FF 165 / 130)			
Shaft Diameter	240	24j6 x 50.0 .			
Fan box	-				
Insulation class	F				
UL Motor / UL Stator	UL Motor / UL Stator				

Nominal characteristics					
Motor Ambient Temperature (°C)	40	Drive Fsw (kHz)	12		
Motor Stall Torque (N.m)	11.00	Stall Current (A)	6.90		
Rated Torque (N.m)	9.50	Rated Current (A)	5.9		
Motor Peak Torque (N.m)	33.00				
Rated Power (kW)	2.98	Kt (Nm/A)	1.60		
Winding Thermal Time Constant (s)	148	Ke (V/kmin-1)	98.00		
Number of Poles	6	R (ph-ph) (Ohm)	2.12		
Maximum Cogging (N.m)	0.16	L (ph-ph) (mH)	19.11		
Inertia (kg.cm²)	17.44	Product mass	13.87		
Ingress Protection Level (IP)	IP65				

Brake Braked (X)



Configured characteristics				
Motor Ambient Temperature (°C)	40			
Drive Fsw (kHz)	8			
Derating Factor	0.97			
Stall Torque with Derating Factor (N.m)	10.67			
Nominal Torque after Derating (N.m)	9.21			
Peak Torque with Derating Factor (N.m)	33.00			







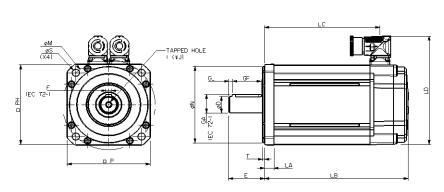


Data sheet

<u>N°</u>: Date: 14 janv. 2020

### SERVO MOTOR 142U3B30X...with hand release brake

### Motor (° & mm)



LB	Total length	282.80
LB1		
LC	Power connector position	248.00
LJ		
LA	Flange thickness	14.0
Т	Register Length	3.4
N	Register Diameter	130.0
LD	Power connector overall height	183.50
LD1	· ·	
Р	Flange Square	142.0
S	Fixing Hole Diameter	12.0
M	Fixing hole PCD	165
PH	Motor Housing Width	142
D	Shaft Diameter	24j6
E	Shaft Length	50.0
GA	Key Height	0.0
GF	Key Length	0.0
G	Key to Shaft End	0.0
F	Key Width	-
1	Tapped Hole Thread Size	M8x1,25
J	Tapped Hole Depth	20.0
	Mounting Bolt	M10

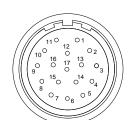
#### Motor electrical interface

Connection type :

Conductors size :

Feedback device code: EB - Optical EnDat SinCos MultiTturn (EQN 1325)

= '03'}Cable : SI



1 - CTP

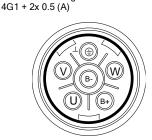
2 - CTP 3 - Screen

4 - -5 - -

6 - -

8 - CLK

Screen



B - Power and Signal 90° rotatable

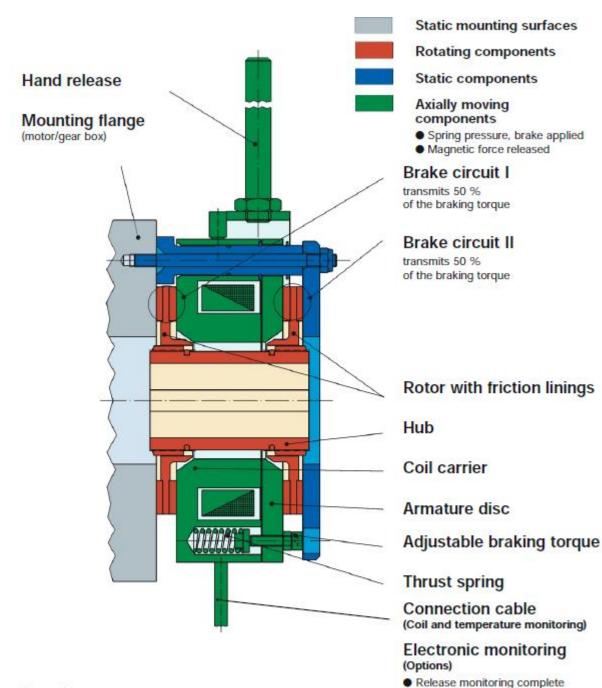








Data sheet



# Function

# Brake released:

Magnetic coil is energised. Coil carrier and armature disc are attracted to each other. Both rotors with their friction linings are free.

# Brake applied:

Magnetic coil is de-energised. Coil carrier and armature disc are forced apart via the thrust springs. Both rotors with their friction linings are braked.

or per single circuit Wear monitoring complete

Switch according to on request

