

# servo motor BMI 1-phase untapped IP65 multiturn - 131072 p/t x 4096 t - brake

BMI0703T22F

Product availability: Non-Stock - Not normally stocked in distribution facility

## Main

Range Compatibility	Lexium 32i
Device short name	BMI
Product or Component Type	Servo motor with power stage

# Complementary

Maximum mechanical speed	8000 rpm	
[Us] rated supply voltage	115230 V - 1510 %	
Supply voltage limits	100240 V	
Phase	Single phase	
Supply frequency	50/60 Hz - 55 %	
Network frequency limits	47.563 Hz	
EMC filter	Integrated	
Continuous output current	3.5 A 8 kHz	
Output current 3s peak	10.5 A 230 V 3 s	
Continuous stall current	3.5 A	
Continuous stall torque	30.09 lbf.in (3.4 N.m) 115230 V single phase	
Peak stall torque	76.1 lbf.in (8.6 N.m) 115 V single phase 76.1 lbf.in (8.6 N.m) 230 V single phase	
Nominal output power	700 W 230 V single phase 400 W 115 V single phase	
Nominal torque	25.7 lbf.in (2.9 N.m) 115 V single phase 19.5 lbf.in (2.2 N.m) 230 V single phase	
Nominal speed	3200 rpm 230 V single phase 1400 rpm 115 V single phase	
Maximum current Irms	17.8 A 115 V, single phase 17.8 A 230 V, single phase	
Product compatibility	Drive control unit LXM32i CANopen Drive control unit LXM32i EtherCAT	
Shaft end	Untapped	
Second shaft	Without second shaft end	
Shaft diameter	0.6 in (14 mm)	
Shaft length	1.2 in (30 mm)	
Feedback type	Absolute multiturn SinCos Hiperface	
Speed feedback resolution	131072 points/turn x 4096 turns	

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Holding brake	With	
Holding torque	26.6 lbf.in (3 N.m) holding brake	
Mounting Support	International standard flange	
Motor flange size	2.8 in (70 mm)	
Electrical Connection	Printed circuit board connector	
Torque constant	0.81 N.m/A 68 °F (20 °C)	
Back emf constant	54.44 V/krpm 68 °F (20 °C)	
Number of motor poles	10	
Rotor inertia	1.78 kg.cm²	
Stator resistance	2.58 Ohm 68 °F (20 °C)	
Stator inductance	2.28 mH 68 °F (20 °C)	
Stator electrical time constant	0.88 ms 68 °F (20 °C)	
Maximum radial force Fr	730 N 1000 rpm 580 N 2000 rpm 510 N 3000 rpm 460 N 4000 rpm 430 N 5000 rpm 400 N 6000 rpm	
Maximum axial force Fa	0.2 x Fr	
Brake pull-in power	5 W	
Type of cooling	Natural convection	
Length	13.3 in (339 mm)	
Number of motor stacks	3	
Centring collar diameter	2.4 in (60 mm)	
Centring collar depth	0.10 in (2.5 mm)	
Number of mounting holes	4	
Mounting holes diameter	0.2 in (5.5 mm)	
Circle diameter of the mounting holes	3.03.2 in (7582 mm)	
Distance shaft shoulder-flange	0.10 in (2.5 mm)	

# **Environment**

IP Degree of Protection IP65

# Ordering and shipping details

Category	US1PC5618287
Discount Schedule	PC56
GTIN	3606485376790
Returnability	No
Country of origin	DE

# **Packing Units**

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	9.84 in (25.0 cm)

Package 1 Width	7.32 in (18.6 cm)	
Package 1 Length	21.65 in (55.0 cm)	
Package weight(Lbs)	14.3 lb(US) (6.5 kg)	

# **Contractual warranty**

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

#### Environmental Data explained >

How we assess product sustainability >

## ☑ Environmental footprint

Environmental Disclosure

Product Environmental Profile

#### **Use Better**

<b>⊗</b> Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACh Regulation	REACh Declaration
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
PVC free	Yes

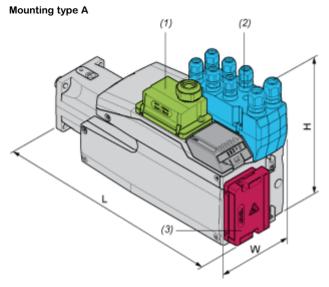
### **Use Again**

○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

## **Dimensions Drawings**

#### **External Dimensions**

## With Standard Braking Resistor



- (1) Module for supply voltage
- (2) I/O module
- Standard braking resistor (3)

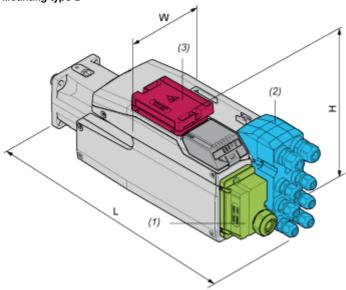
#### Dimensions in mm

W	Н	L
99	187	360

#### Dimensions in in

W	Н	L
3,90	7,36	14,17

#### Mounting type B



- Module for supply voltage (1)
- (2) I/O module

(3) Standard braking resistor

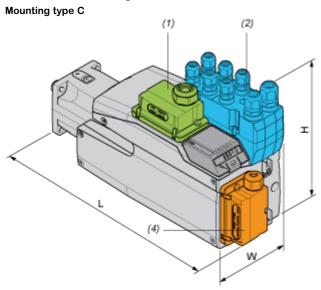
#### Dimensions in mm

W	Н	L
99	138,5	409

#### Dimensions in in.

W	Н	L
3,90	5,45	16,1

## With External Braking Resistor



- (1) Module for supply voltage
- (2) I/O module
- (4) External braking resistor

#### Dimensions in mm

W	Н	L
99	187	372

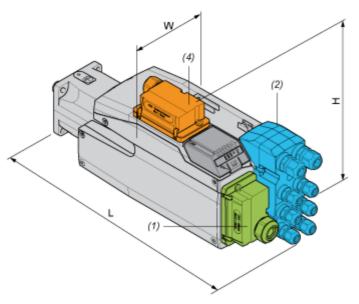
#### Dimensions in in.

D				
W	L			
3,90	7,36	14,65		

## Mounting type D

# **Product data sheet**

## BMI0703T22F



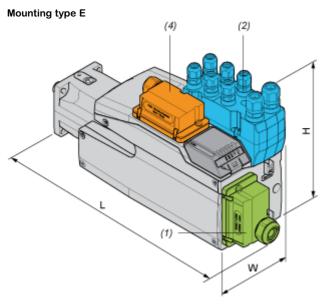
- (1) Module for supply voltage
- (2) I/O module
- (4) External braking resistor

#### Dimensions in mm

W	L	
99	160	409

#### Dimensions in in.

W	Н	L
3,90	6,3	16,1



- (1) Module for supply voltage
- (2) I/O module
- (4) External braking resistor

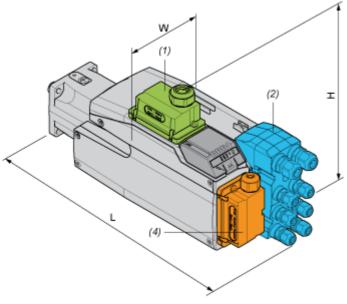
### Dimensions in mm

W	Н	L
99	187	399

Dimensions in in.

W	Н	L
3,90	7,36	15,71

## Mounting type F



- (1) Module for supply voltage
- I/O module (2)
- External braking resistor (4)

#### Dimensions in mm

W	Н	L			
99	180	409			

### Dimensions in in

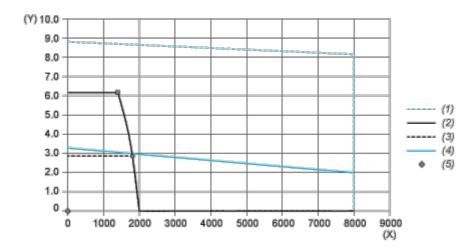
Difficition in in.				
W	Н	L		
3,90	7,09	16,1		

## BMI0703T22F

#### Performance Curves

## Performance Curves

## Torque/Speed Curves with 115 V Single Phase Supply Voltage

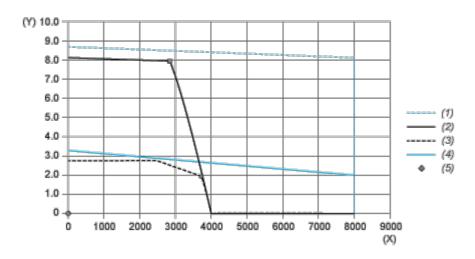


- (X) Speed (rpm)
- (Y) Torque (N.m)
- (1) Motor peak
- (2) Drive peak
- (3) Drive cont
- (4) Motor cont
- (5) Operating point

		Power	At Speed	With Torque
max. Peak Power		889 W	1360 rpm	6.24 N.m
max Cont. Power (Drive)	•	501 W	1680 rpm	2.85 N.m

## **Performance Curves**

#### Torque/Speed Curves with 230 V Single Phase Supply Voltage



- (X) Speed (rpm)
- (Y) Torque (N.m)
- (1) Motor peak
- (2) Drive peak
- (3) Drive cont
- (4) Motor cont
- (5) Operating point

		Power	At Speed	With Torque
max. Peak Power		2314 W	2800 rpm	7.89 N.m
max Cont. Power (Drive)	•	738 W	3600 rpm	1.96 N.m