

servo motor BMI 1-phase - keyed IP65 multiturn - 131072 p/t x 4096 t

BMI0703T32A

Main

Range compatibility	Lexium 32i
Device short name	BMI
Product or component type	Servo motor with power stage

Complementary

-

Speed feedback resolution	131072 points/turn x 4096 turns
Holding brake	Without
Mounting support	International standard flange
Motor flange size	70 mm
Electrical connection	Printed circuit board connector
Torque constant	0.81 N.m/A at 20 °C
Back emf constant	54.44 V/krpm at 20 °C
Number of motor poles	10
Rotor inertia	1.67 kg.cm²
Stator resistance	2.58 Ohm at 20 °C
Stator inductance	2.28 mH at 20 °C
Stator electrical time constant	0.88 ms at 20 °C
Maximum radial force Fr	730 N at 1000 rpm 580 N at 2000 rpm 510 N at 3000 rpm 460 N at 4000 rpm 430 N at 5000 rpm 400 N at 6000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	300 mm
Number of motor stacks	3
Centring collar diameter	60 mm
Centring collar depth	2.5 mm
Number of mounting holes	4
Mounting holes diameter	5.5 mm
Circle diameter of the mounting holes	7582 mm
Distance shaft shoulder-flange	2.5 mm

Environment

IP degree of protection IP65

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	25.0 cm
Package 1 Width	18.6 cm
Package 1 Length	55.0 cm
Package 1 Weight	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 Disclosure

Product Environmental Profile

Use Better

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

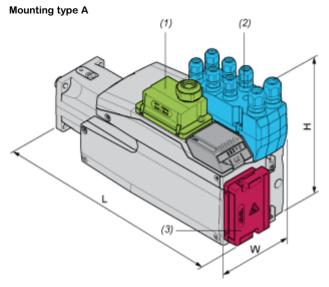
Use Again

○ Repack and remanufacture	
End of life manual availability	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
- (3) Standard braking resistor

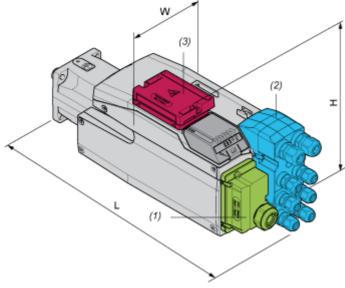
Dimensions in mm

W	Н	L
99	187	321

Dimensions in in.

Difficitations in in.		
W	Н	L
3,90	7,36	12,64

Mounting type B



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

Product data sheet

BMI0703T32A

(3) Standard braking resistor

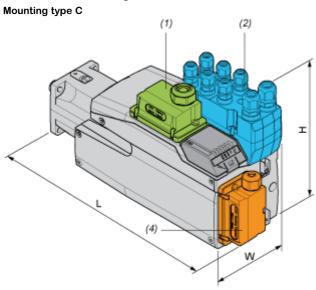
Dimensions in mm

W	Н	L
99	138,5	370

Dimensions in in.

W	Н	L
3,90	5,45	14,57

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	333

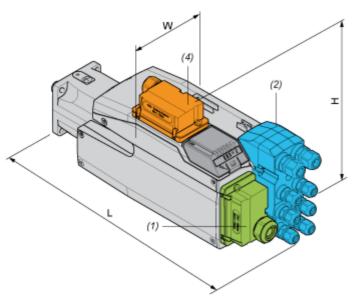
Dimensions in in

W	Н	L
3,90	7,36	13,11

Mounting type D

Product data sheet

BMI0703T32A



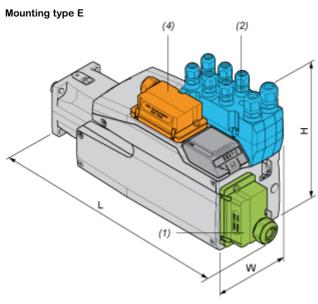
- (1) Module for supply voltage
- (2) I/O module
- External braking resistor (4)

Dimensions in mm

Billichsions III min				
W	H	L		
99	160	370		

Dimensions in in.

W	Н	L
3,90	6,3	14,57



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

Dimensions in mm

W	Н	L
99	187	360

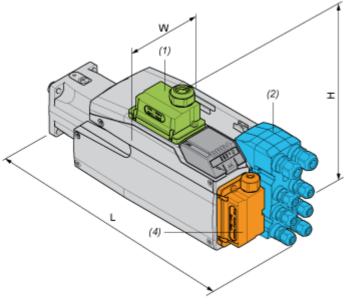
Product data sheet

BMI0703T32A

Dimensions in in.

W	Н	L
3,90	7,36	14,17

Mounting type F



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

Dimensions in mm

W	Н	L	
99	180	370	

Dimensions in in.

W	Н	L
3,90	7,09	14,57

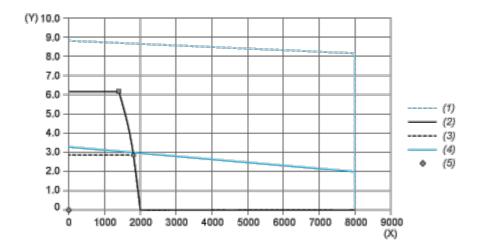
Life Is On Schneider

BMI0703T32A

Performance Curves

Performance Curves

Torque/Speed Curves with 115 V Single Phase Supply Voltage

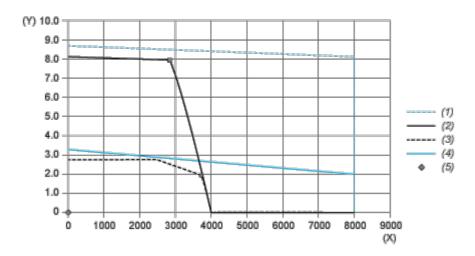


- (X) Speed (rpm)
- (Y) Torque (N.m)
- (1) Motor peak
- (2) Drive peak
- (3) Drive cont
- (4) Motor cont
- (5) Operating point

		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