Product data sheet

Specifications



servo motor BMI 1-phase - keyed IP65 single turn - 32768 p/t - brake

BMI0703T36F

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	115...230 V - 15...10 %
Supply voltage limits	100…240 V
Phase	Single phase
Supply frequency	50/60 Hz - 5...5 %
Network frequency limits	47.5…63 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) 115...230 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	Keyed
Second shaft	Without second shaft end
Shaft diameter	0.6 in (14 mm)
Shaft length	1.2 in (30 mm)
key width	0.2 in (5 mm)
Feedback type	Absolute single turn SinCos Hiperface

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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Speed feedback resolution	32768 points/turn
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	3.0…3.2 in (75…82 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	3606485376899
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	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 1 Weight	14.3 lb(US) (6.5 kg)

Contractual warranty

Warranty	18 months

Environmental Data

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

Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
China RoHS Regulation	China RoHS 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

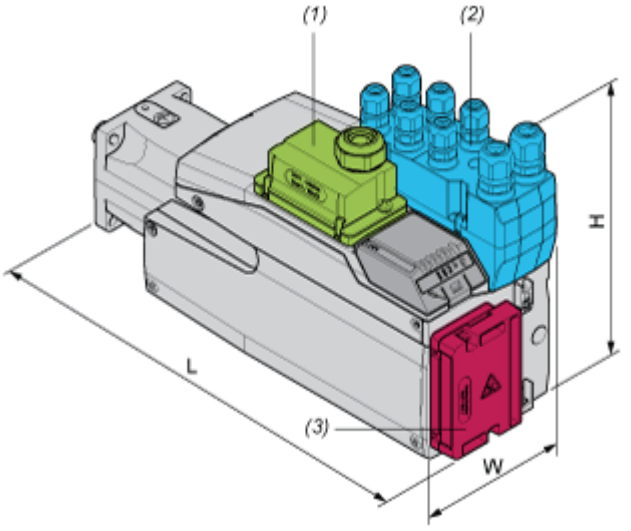
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Take-back	No

Dimensions Drawings

External Dimensions

With Standard Braking Resistor

Mounting type A



(1) Module for supply voltage

(2) I/O module

(3) Standard braking resistor

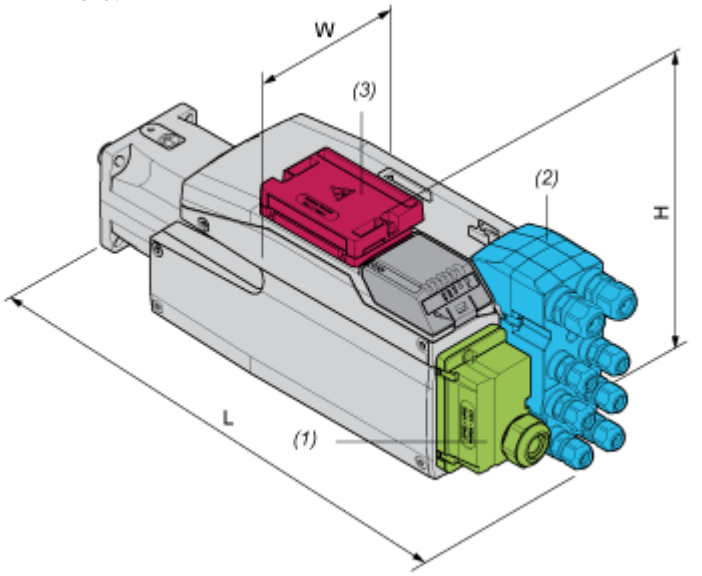
Dimensions in mm

W	H	L
99	187	360

Dimensions in in.

W	H	L
3,90	7,36	14,17

Mounting type B



(1) Module for supply voltage

(2) I/O module

(3) Standard braking resistor

Dimensions in mm

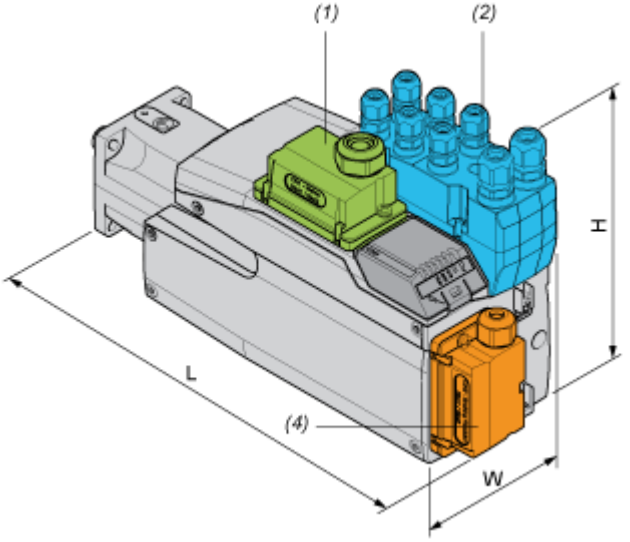
W	H	L
99	138,5	409

Dimensions in in.

W	H	L
3,90	5,45	16,1

With External Braking Resistor

Mounting type C



(1) Module for supply voltage

(2) I/O module

(4) External braking resistor

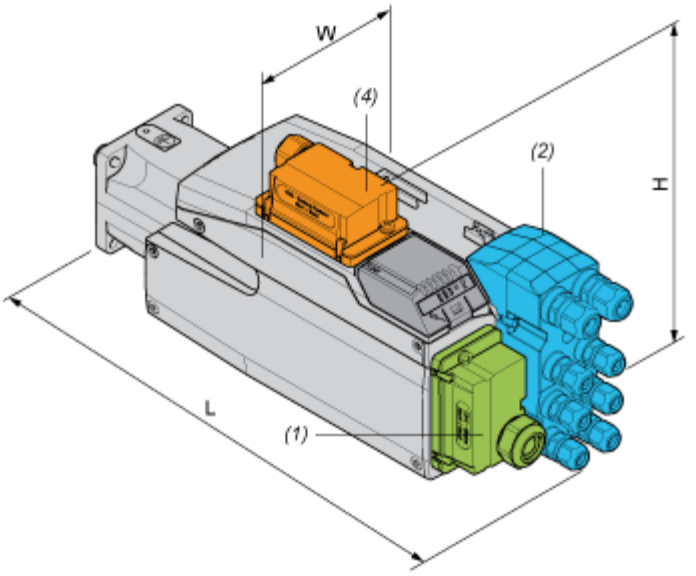
Dimensions in mm

W	H	L
99	187	372

Dimensions in in.

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

Mounting type D



(1) Module for supply voltage

(2) I/O module

(4) External braking resistor

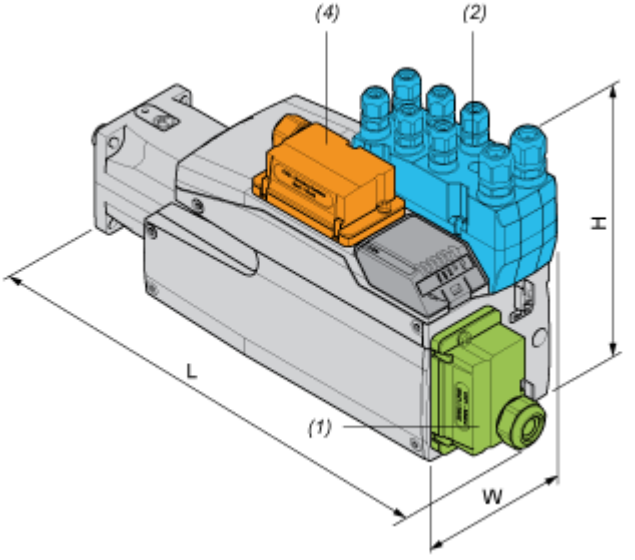
Dimensions in mm

W	H	L
99	160	409

Dimensions in in.

W	H	L
3,90	6,3	16,1

Mounting type E



(1) Module for supply voltage

(2) I/O module

(4) External braking resistor

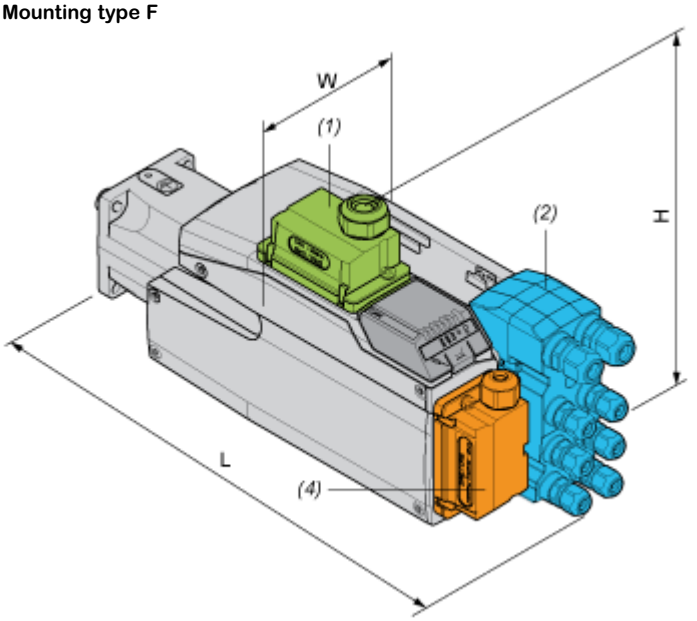
Dimensions in mm

W	H	L
99	187	399

Dimensions in in.

W	H	L
3,90	7,36	15,71

Mounting type F



(1) Module for supply voltage

(2) I/O module

(4) External braking resistor

Dimensions in mm

W	H	L
99	180	409

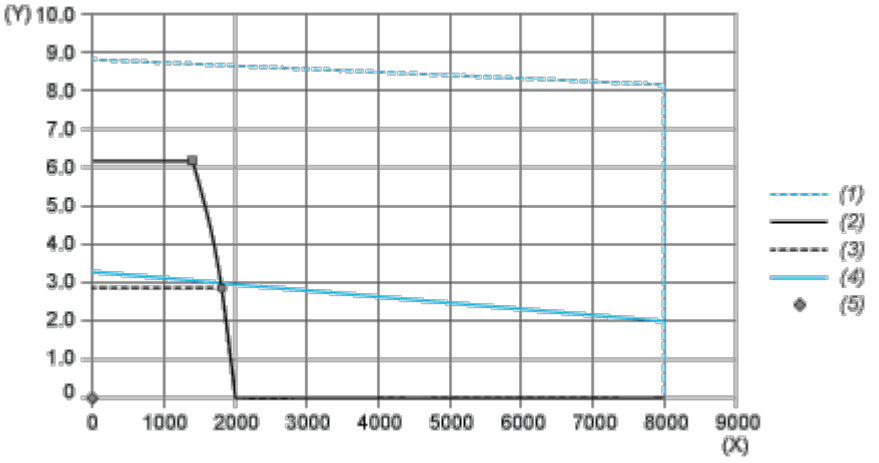
Dimensions in in.

W	H	L
3,90	7,09	16,1

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

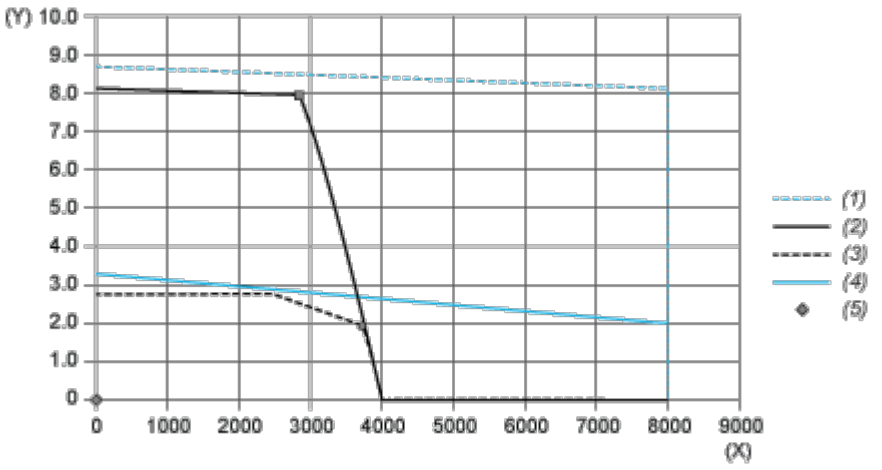
(4) Motor cont

(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