



## Main

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

## Complementary

Maximum mechanical speed	8000 rpm
[Us] rated supply voltage	208...480 V - 15...10 %
Supply voltage limits	208...480 V
Phase	Three phase
Supply frequency	50/60 Hz - 5...5 %
Network frequency limits	47.5...63 Hz
EMC filter	Integrated
Continuous output current	2 A 8 kHz
Output current 3s peak	6 A 400 V 3 s
Continuous stall current	2 A
Continuous stall torque	21.95 lbf.in (2.48 N.m) 208...480 V three phase
Peak stall torque	60.18 Lbf.in (6.8 N.m) 208 V three phase 60.18 Lbf.in (6.8 N.m) 400 V three phase 60.18 lbf.in (6.8 N.m) 480 V three phase
Nominal output power	400 W 208 V three phase 800 W 400 V three phase 900 W 480 V three phase
Nominal torque	21.24 Lbf.in (2.4 N.m) 208 V three phase 19.47 Lbf.in (2.2 N.m) 400 V three phase 17.70 lbf.in (2 N.m) 480 V three phase
Nominal speed	1800 rpm 208 V three phase 3600 rpm 400 V three phase 4400 rpm 480 V three phase
Maximum current Irms	9.6 A 208 V, three phase 9.6 A 400 V, three phase 9.6 A 480 V, three phase
Product compatibility	Drive control unit LXM32i CANopen Drive control unit LXM32i EtherCAT
Shaft end	Untapped
Second shaft	Without second shaft end
Shaft diameter	0.43 in (11 mm)
Shaft length	0.91 in (23 mm)
Feedback type	Absolute single turn SinCos Hiperface
Speed feedback resolution	32768 points/turn
Holding brake	With
Holding torque	26.55 lbf.in (3 N.m) holding brake
Mounting Support	International standard flange

Motor flange size	2.76 in (70 mm)
Electrical Connection	Printed circuit board connector
Torque constant	1.15 N.m/A 68 °F (20 °C)
Back emf constant	77.18 V/krpm 68 °F (20 °C)
Number of motor poles	10
Rotor inertia	1.24 kg.cm <sup>2</sup>
Stator resistance	8.89 Ohm 68 °F (20 °C)
Stator inductance	25.75 mH 68 °F (20 °C)
Stator electrical time constant	2.9 ms 68 °F (20 °C)
Maximum radial force Fr	710 N 1000 rpm 560 N 2000 rpm 490 N 3000 rpm 450 N 4000 rpm 410 N 5000 rpm 390 N 6000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	5 W
Type of cooling	Natural convection
Length	12.05 in (306 mm)
Number of motor stacks	2
Centring collar diameter	2.36 in (60 mm)
Centring collar depth	0.10 in (2.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.22 in (5.5 mm)
Circle diameter of the mounting holes	2.95...3.23 in (75...82 mm)
Distance shaft shoulder-flange	0.10 in (2.5 mm)

## Environment

IP Degree of Protection	Shaft IP54 Housing IP65
-------------------------	----------------------------

## Ordering and shipping details

Category	18287-LEXIUM 32 INTEGRATED DRIVES
Discount Schedule	PC56
GTIN	3606485375694
Returnability	No
Country of origin	DE

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	24.41 in (62.0 cm)
Package 1 Width	7.87 in (20.0 cm)
Package 1 Length	23.23 in (59.0 cm)
Package 1 Weight	12.33 lb(US) (5.594 kg)
Unit Type of Package 2	P06
Number of Units in Package 2	8
Package 2 Height	30.31 in (77.0 cm)
Package 2 Width	31.50 in (80.0 cm)
Package 2 Length	23.62 in (60.0 cm)
Package 2 Weight	117.40 lb(US) (53.252 kg)

## Offer Sustainability

Sustainable offer status	Green Premium product
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
PVC free	Yes

## Contractual warranty

Warranty	18 months
----------	-----------

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	327

Dimensions in in.

W	H	L
3,90	7,36	12,87

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	376

Dimensions in in.

W	H	L
3,90	5,45	14,8

### 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	339

Dimensions in in.

W	H	L
3,90	7,36	13,35

Mounting type D



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

Dimensions in mm

W	H	L
99	160	376

Dimensions in in.

W	H	L
3,90	6,3	14,8

### Mounting type E



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

Dimensions in mm

W	H	L
99	187	366

Dimensions in in.

W	H	L
3,90	7,36	14,41

### Mounting type F



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

Dimensions in mm

W	H	L
99	180	376

Dimensions in in.

W	H	L
3,90	7,09	14,8

Performance Curves

Torque/Speed Curves with 208 V Three Phases Supply Voltage

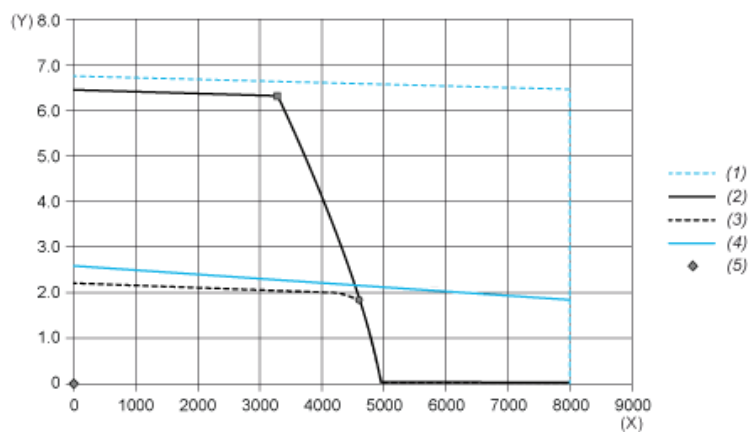


- (X) Speed (rpm)
- (Y) Torque (N.m)
- (1) Motor peak
- (2) Drive peak
- (3) Drive cont
- (4) Motor cont
- (5) Operating point

		Power	At Speed	With Torque
max. Peak Power	■	1013 W	1520 rpm	6.36 N.m
max Cont. Power (Drive)	●	519 W	2240 rpm	2.21 N.m

Performance Curves

Torque/Speed Curves with 400 V Three Phases Supply Voltage



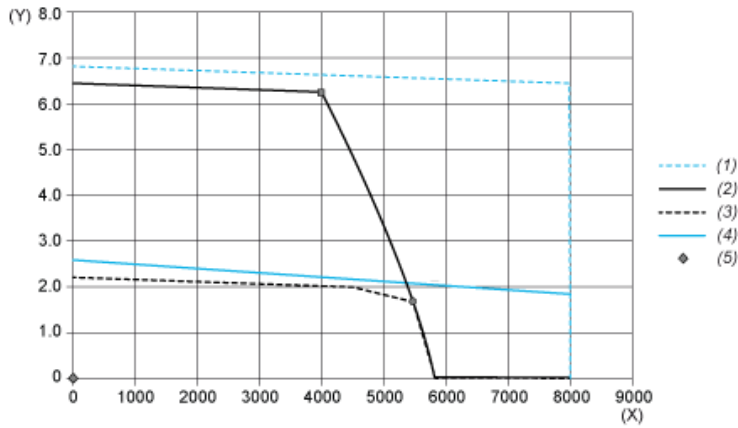
- (X) Speed (rpm)
- (Y) Torque (N.m)
- (1) Motor peak
- (2) Drive peak
- (3) Drive cont
- (4) Motor cont
- (5) Operating point

		Power	At Speed	With Torque
max. Peak Power	■	2161 W	3280 rpm	6.29 N.m

		Power	At Speed	With Torque
max Cont. Power (Drive)	●	892 W	4560 rpm	1.87 N.m

## Performance Curves

### Torque/Speed Curves with 480 V Three Phases 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	■	2623 W	4000 rpm	6.26 N.m
max Cont. Power (Drive)	●	943 W	5600 rpm	1.61 N.m