



## Main

Range compatibility	Lexium 23 Plus
Product or component type	Servo motor
Device short name	BCH

## Complementary

Maximum mechanical speed	5000 rpm
[Us] rated supply voltage	220 V
Phase	Single phase
Continuous stall current	0.9 A
Continuous power	0.1 kW
Shaft end	Keyed
Second shaft	Without second shaft end
Shaft diameter	0.31 in (8 mm)
Shaft length	0.79 in (20 mm)
Key width	0.12 in (3 mm)
Feedback type	20 bits incremental encoder
Holding brake	Without
Mounting support	Asian standard flange
Motor flange size	1.57 in (40 mm)
Torque constant	0.36 N.m/A
Back emf constant	13.6 V/krpmat 68 °F (20 °C)
Rotor inertia	0.037 kg.cm <sup>2</sup>
Stator resistance	18.6 Ohmat 68 °F (20 °C)
Stator inductance	48 mH at 68 °F (20 °C)
Stator electrical time constant	2.58 msat 68 °F (20 °C)
Maximum radial force Fr	78.4 N
Maximum axial force Fa	39.2 N
Brake pull-in power	7.3 W
Type of cooling	Natural convection
Length	3.96 in (100.6 mm)
Number of motor stacks	1
Centring collar diameter	1.18 in (30 mm)
Centring collar depth	0.1 in (2.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.18 in (4.5 mm)
Circle diameter of the mounting holes	1.81 in (46 mm)
Distance shaft shoulder-flange	0.79 in (20 mm)
Product weight	1.1 lb(US) (0.5 kg)

## Environment

The information provided in this documentation contains general descriptions and/or technical characteristics of the products of the Schneider Electric group. It 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

IP degree of protection	IP40
ambient air temperature for operation	32...104 °F (0...40 °C)

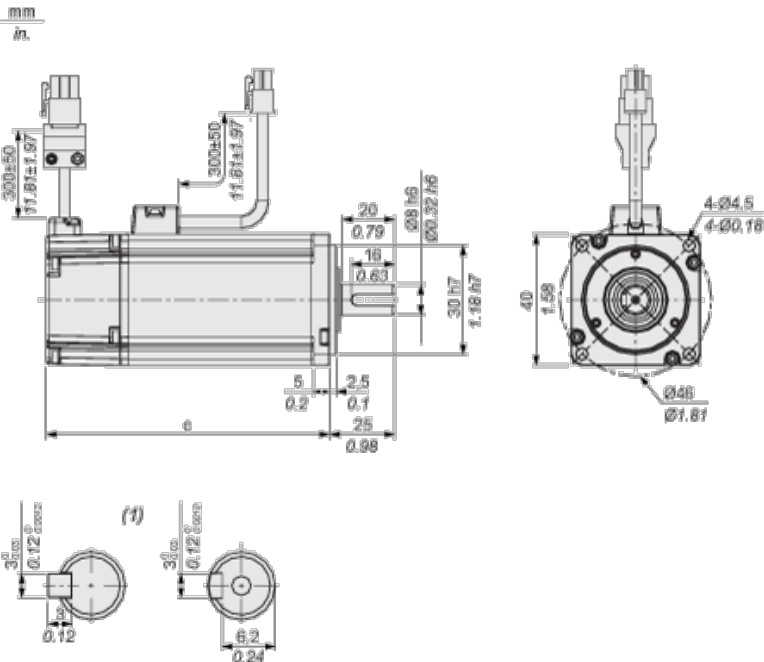
Offer Sustainability

Green Premium product	Green Premium product
Compliant - since 0943 - Schneider Electric declaration of conformity	Compliant - since 0943 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Need no specific recycling operations	Need no specific recycling operations

Contractual warranty

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

Dimensions



(1) Shaft end, keyed slot (optional)

Dimensions in mm

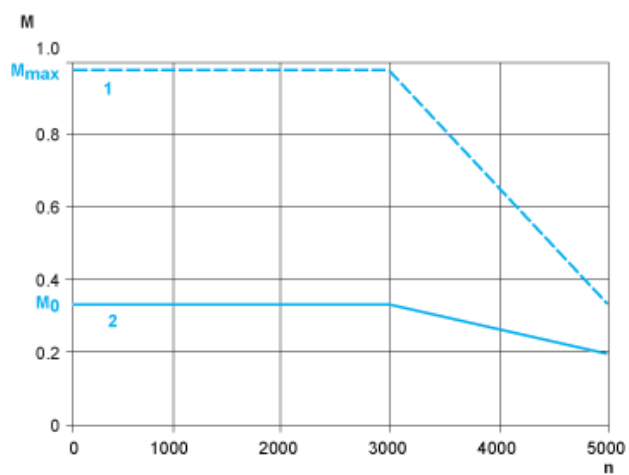
c (without holding brake)	c (with holding brake)
100.6	136.6

Dimensions in in.

c (without holding brake)	c (with holding brake)
3.96	5.38

Torque/Speed Curves with 220 V Single Phase Supply Voltage

Servo Motor with LXM23•U01M3X Servo Drive



$M$  : Torque in Nm

$n$  : Speed in rpm

1 : Peak torque

2 : Continuous torque