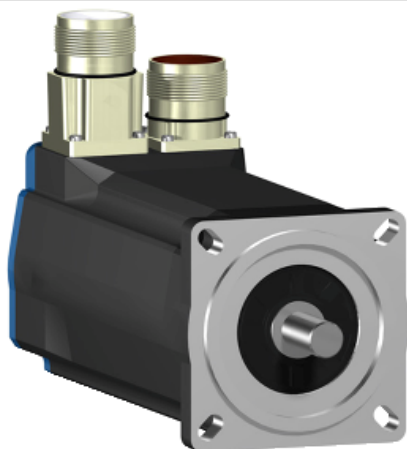


BSH0703T22F2A

AC servo motor BSH - 2.83 N.m - 6000 rpm -
untapped shaft - with brake - IP65



Main

Product or component type	Servo motor
Device short name	BSH
Maximum mechanical speed	8000 rpm
Continuous stall torque	2.8 N.m for LXM05AD28M2, 200...240 V, single phase 2.8 N.m for LXM05BD28M2, 200...240 V, single phase 2.8 N.m for LXM05CD28M2, 200...240 V, single phase 2.6 N.m for LXM32.D18M2 at 6 A, 230 V, single phase 2.83 N.m for LXM15LD28M3, 230 V, three phase 2.8 N.m for LXM05AD28F1, 110...120 V, single phase 2.8 N.m for LXM05AD42M3X, 200...240 V, three phase 2.8 N.m for LXM05BD28F1, 110...120 V, single phase 2.8 N.m for LXM05BD42M3X, 200...240 V, three phase 2.8 N.m for LXM05CD28F1, 110...120 V, single phase 2.8 N.m for LXM05CD42M3X, 200...240 V, three phase
Peak stall torque	7.38 N.m for LXM05AD28F1, 110...120 V, single phase 7.38 N.m for LXM05AD28M2, 200...240 V, single phase 7.38 N.m for LXM05BD28F1, 110...120 V, single phase 7.38 N.m for LXM05BD28M2, 200...240 V, single phase 7.38 N.m for LXM05CD28F1, 110...120 V, single phase 7.38 N.m for LXM05CD28M2, 200...240 V, single phase 7.4 N.m for LXM32.D18M2 at 6 A, 230 V, single phase 7.38 N.m for LXM15LD28M3, 230 V, three phase 10.25 N.m for LXM05AD42M3X, 200...240 V, three phase 10.25 N.m for LXM05BD42M3X, 200...240 V, three phase 10.25 N.m for LXM05CD42M3X, 200...240 V, three phase
Nominal output power	750 W for LXM05AD28M2, 200...240 V, single phase 750 W for LXM05BD28M2, 200...240 V, single phase 750 W for LXM05CD28M2, 200...240 V, single phase 750 W for LXM05AD28F1, 110...120 V, single phase 750 W for LXM05BD28F1, 110...120 V, single phase 750 W for LXM05CD28F1, 110...120 V, single phase 900 W for LXM32.D18M2 at 6 A, 230 V, single phase 1250 W for LXM15LD28M3, 230 V, three phase 750 W for LXM05AD42M3X, 200...240 V, three phase 750 W for LXM05BD42M3X, 200...240 V, three phase 750 W for LXM05CD42M3X, 200...240 V, three phase
Nominal torque	2.4 N.m for LXM05AD28M2, 200...240 V, single phase

	2.4 N.m for LXM05BD28M2, 200...240 V, single phase 2.4 N.m for LXM05CD28M2, 200...240 V, single phase 2.4 N.m for LXM05AD28F1, 110...120 V, single phase 2.4 N.m for LXM05BD28F1, 110...120 V, single phase 2.4 N.m for LXM05CD28F1, 110...120 V, single phase 2.1 N.m for LXM32.D18M2 at 6 A, 230 V, single phase 2 N.m for LXM15LD28M3, 230 V, three phase 2.4 N.m for LXM05AD42M3X, 200...240 V, three phase 2.4 N.m for LXM05BD42M3X, 200...240 V, three phase 2.4 N.m for LXM05CD42M3X, 200...240 V, three phase
Nominal speed	3000 rpm for LXM05AD28M2, 200...240 V, single phase 3000 rpm for LXM05BD28M2, 200...240 V, single phase 3000 rpm for LXM05CD28M2, 200...240 V, single phase 3000 rpm for LXM05AD42M3X, 200...240 V, three phase 3000 rpm for LXM05BD42M3X, 200...240 V, three phase 3000 rpm for LXM05CD42M3X, 200...240 V, three phase 3000 rpm for LXM05AD28F1, 110...120 V, single phase 3000 rpm for LXM05BD28F1, 110...120 V, single phase 3000 rpm for LXM05CD28F1, 110...120 V, single phase 4000 rpm for LXM32.D18M2 at 6 A, 230 V, single phase 6000 rpm for LXM15LD28M3, 230 V, three phase
Product compatibility	LXM05AD28F1 at 110...120 V single phase LXM05AD28M2 at 200...240 V single phase LXM05BD28F1 at 110...120 V single phase LXM05BD28M2 at 200...240 V single phase LXM05CD28F1 at 110...120 V single phase LXM05CD28M2 at 200...240 V single phase LXM32.D18M2 at 230 V single phase LXM05AD42M3X at 200...240 V three phase LXM05BD42M3X at 200...240 V three phase LXM05CD42M3X at 200...240 V three phase LXM15LD28M3 at 230 V three phase
Shaft end	Untapped
IP degree of protection	IP65 standard IP67 with IP67 kit
Speed feedback resolution	131072 points/turn x 4096 turns
Holding brake	With
Mounting support	International standard flange
Electrical connection	Rotatable right-angled connectors

Complementary

Range compatibility	Lexium 05 Lexium 15 Lexium 32
Supply voltage max	480 V
Network number of phases	Three phase
Continuous stall current	7 A
Maximum continuous power	1.7 W
Maximum current Irms	18 A for LXM32.D18M2 30.9 A for LXM15LD28M3 29.2 A for LXM05AD28F1 29.2 A for LXM05AD28M2 29.2 A for LXM05AD42M3X 29.2 A for LXM05BD28F1 29.2 A for LXM05BD28M2 29.2 A for LXM05BD42M3X 29.2 A for LXM05CD28F1 29.2 A for LXM05CD28M2 29.2 A for LXM05CD42M3X
Maximum permanent current	29.2 A
Switching frequency	8 kHz
Second shaft	Without second shaft end
Shaft diameter	14 mm
Shaft length	30 mm
Feedback type	Multiturn SinCos Hiperface

Holding torque	3 N.m holding brake
Motor flange size	70 mm
Number of motor stacks	3
Torque constant	0.44 N.m/A at 120 °C
Back emf constant	29 V/krpm at 120 °C
Number of motor poles	6
Rotor inertia	0.81 kg.cm ²
Stator resistance	0.91 Ohm at 20 °C
Stator inductance	4.4 mH at 20 °C
Stator electrical time constant	4.84 ms at 20 °C
Maximum radial force Fr	400 N at 6000 rpm 430 N at 5000 rpm 460 N at 4000 rpm 510 N at 3000 rpm 580 N at 2000 rpm 730 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	12 W
Type of cooling	Natural convection
Length	254 mm
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	82 mm
Product weight	3.8 kg

Offer Sustainability

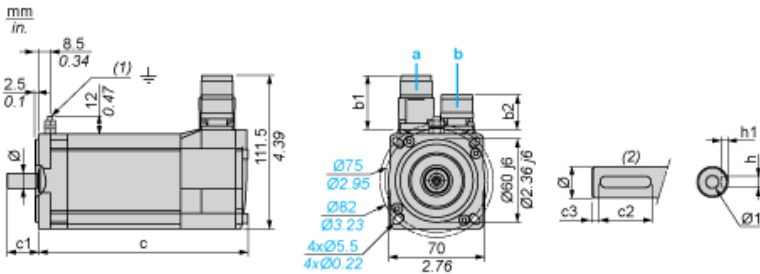
Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	No need of specific recycling operations
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Contractual warranty

Warranty	18 months
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Servo Motors Dimensions

Example with Straight Connectors



- a: Power supply for servo motor brake
b: Power supply for servo motor encoder
(1) M4 screw
(2) Shaft end, keyed slot (optional)

Dimensions in mm

Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)	c1	c2	c3	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2									
39.5	25.5	39.5	39.5	220	254	30	20	5	5 N9	3 ^{+0.1} ₀	14 k6	M5 x 12.5

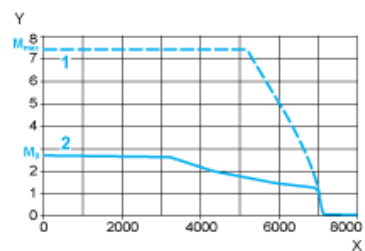
Dimensions in in.

Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)	c1	c2	c3	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2									
1.55	1.00	1.55	1.55	8.66	10.00	1.18	0.78	0.19	0.20 N9	0.12 ^{+0.004} ₀	0.55 k6	M5 x 0.49

230 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18M2 servo drive



X Speed in rpm
Y Torque in Nm
1 Peak torque
2 Continuous torque