

# AC servo motor BSH, Lexium 05, 7.8N.m, 2500rpm, keyed shaft, with brake, IP50

BSH1003P12F1A

#### Main

Product Or Component Type	Servo motor					
Device Short Name	BSH					
Maximum Mechanical Speed	6000 rpm					
Continuous Stall Torque	8 N.m for LXM32.D30N4 at 10 A, 400 V, three phase 8 N.m for LXM32.D30N4 at 10 A, 480 V, three phase 7.8 N.m for LXM05CD28M2, 200240 V, single phase 7.8 N.m for LXM05BD28M2, 200240 V, single phase 7.8 N.m for LXM05BD28M2, 200240 V, single phase 7.8 N.m for LXM05BD34N4, 380480 V, three phase 7.8 N.m for LXM05BD34N4, 380480 V, three phase 7.8 N.m for LXM05CD34N4, 380480 V, three phase 7.8 N.m for LXM05CD34N4, 380480 V, three phase 7.8 N.m for LXM05CD42M3X, 200240 V, three phase 6.7 N.m for LXM15LD21M3, 230 V, three phase 6.7 N.m for LXM15LD17N4, 230 V, three phase 6.7 N.m for LXM15LD17N4, 400 V, three phase 7.8 N.m for LXM15LD21M3, 230 V, three phase 7.8 N.m for LXM15LD28M3, 230 V, three phase 7.8 N.m for LXM15LD28M3, 230 V, three phase 7.8 N.m for LXM15MD28N4, 400 V, three phase 7.8 N.m for LXM15MD28N4, 480 V, three phase 7.8 N.m for LXM15MD40N4, 400 V, three phase 7.8 N.m for LXM15MD40N4, 480 V, three phase 7.8 N.m for LXM15MD40N4, 480 V, three phase 7.8 N.m for LXM15MD40N4, 380480 V, three phase 7.8 N.m for LXM05AD34N4, 380480 V, three phase 7.8 N.m for LXM05AD34N4, 380480 V, three phase 7.8 N.m for LXM05AD34N4, 380480 V, three phase					

#### Peak Stall Torque

28.3 N.m for LXM32.D30N4 at 10 A, 400 V, three phase 28.3 N.m for LXM32.D30N4 at 10 A, 480 V, three phase 19.69 N.m for LXM05AD28M2, 200...240 V, single phase 19.69 N.m for LXM05BD28M2, 200...240 V, single phase 19.69 N.m for LXM05CD28M2, 200...240 V, single phase 15.5 N.m for LXM15LD21M3, 230 V, three phase 12.5 N.m for LXM15LD17N4, 230 V, three phase 12.5 N.m for LXM15LD17N4, 400 V, three phase 12.5 N.m for LXM15LD17N4, 480 V, three phase 19.69 N.m for LXM15LD28M3, 230 V, three phase 19.69 N.m for LXM15MD28N4, 400 V, three phase 19.69 N.m for LXM15MD28N4, 480 V, three phase 23.17 N.m for LXM15MD40N4, 400 V, three phase 23.17 N.m for LXM15MD40N4, 480 V, three phase 23.01 N.m for LXM05AD34N4, 380...480 V, three phase 23.17 N.m for LXM05AD42M3X, 200...240 V, three phase 23.01 N.m for LXM05BD34N4, 380...480 V, three phase 23.17 N.m for LXM05BD42M3X, 200...240 V, three phase 23.01 N.m for LXM05CD34N4, 380...480 V, three phase 23.17 N.m for LXM05CD42M3X, 200...240 V, three phase

#### **Nominal Output Power**

2000 W for LXM32.D30N4 at 10 A, 400 V, three phase 2600 W for LXM32.D30N4 at 10 A, 480 V, three phase 1100 W for LXM05AD28M2, 200...240 V, single phase 1100 W for LXM05BD28M2, 200...240 V, single phase 1100 W for LXM05CD28M2, 200...240 V, single phase 1100 W for LXM05AD42M3X, 200...240 V, three phase 1100 W for LXM05BD42M3X, 200...240 V, three phase 1100 W for LXM05CD42M3X, 200...240 V, three phase 1300 W for LXM15LD28M3, 230 V, three phase 1700 W for LXM15LD17N4, 230 V, three phase 1700 W for LXM15LD21M3, 230 V, three phase 1800 W for LXM05AD34N4, 380...480 V, three phase 1800 W for LXM05BD34N4, 380...480 V, three phase 1800 W for LXM05CD34N4, 380...480 V, three phase 2000 W for LXM15MD28N4, 400 V, three phase 2000 W for LXM15MD40N4, 400 V, three phase 2200 W for LXM15LD17N4, 400 V, three phase 2200 W for LXM15MD28N4, 480 V, three phase 2200 W for LXM15MD40N4, 480 V, three phase 2300 W for LXM15LD17N4, 480 V, three phase

#### **Nominal Torque**

6.3 N.m for LXM32.D30N4 at 10 A, 400 V, three phase 6.3 N.m for LXM32.D30N4 at 10 A, 480 V, three phase 3.7 N.m for LXM15LD17N4, 480 V, three phase 6.73 N.m for LXM05AD28M2, 200...240 V, single phase 6.73 N.m for LXM05BD28M2, 200...240 V, single phase 6.73 N.m for LXM05CD28M2, 200...240 V, single phase 4.6 N.m for LXM15MD28N4, 480 V, three phase 4.6 N.m for LXM15MD40N4, 480 V, three phase 4.7 N.m for LXM15LD17N4, 400 V, three phase 5 N.m for LXM15MD28N4, 400 V, three phase 5 N.m for LXM15MD40N4, 400 V, three phase 5.7 N.m for LXM05AD34N4, 380...480 V, three phase 5.7 N.m for LXM05BD34N4, 380...480 V, three phase 5.7 N.m for LXM05CD34N4, 380...480 V, three phase 6 N.m for LXM15LD17N4, 230 V, three phase 6 N.m for LXM15LD21M3, 230 V, three phase 6.3 N.m for LXM15LD28M3, 230 V, three phase 6.73 N.m for LXM05AD42M3X, 200...240 V, three phase 6.73 N.m for LXM05BD42M3X, 200...240 V, three phase 6.73 N.m for LXM05CD42M3X, 200...240 V, three phase

#### Nominal Speed

3000 rpm for LXM32.D30N4 at 10 A, 400 V, three phase 4000 rpm for LXM32.D30N4 at 10 A, 480 V, three phase 4500 rpm for LXM15LD17N4, 400 V, three phase 6000 rpm for LXM15LD17N4, 480 V, three phase 1500 rpm for LXM05AD28M2, 200...240 V, single phase 1500 rpm for LXM05BD28M2, 200...240 V, single phase 1500 rpm for LXM05CD28M2, 200...240 V, single phase 1500 rpm for LXM05AD42M3X, 200...240 V, three phase 1500 rpm for LXM05BD42M3X, 200...240 V, three phase 1500 rpm for LXM05CD42M3X, 200...240 V, three phase 2000 rpm for LXM15LD28M3, 230 V, three phase 2500 rpm for LXM15LD17N4, 230 V, three phase 2500 rpm for LXM15LD21M3, 230 V, three phase 3000 rpm for LXM05AD34N4, 380...480 V, three phase 3000 rpm for LXM05BD34N4, 380...480 V, three phase 3000 rpm for LXM05CD34N4, 380...480 V, three phase 4000 rpm for LXM15MD28N4, 400 V, three phase 4000 rpm for LXM15MD40N4, 400 V, three phase 4500 rpm for LXM15MD28N4, 480 V, three phase 4500 rpm for LXM15MD40N4, 480 V, three phase

Product Compatibility	LXM05AD28M2 at 200240 V single phase
, , , , , , , , , , , , , , , , , , , ,	LXM05BD28M2 at 200240 V single phase
	LXM05CD28M2 at 200240 V single phase
	· .
	LXM15LD21M3 at 230 V three phase
	LXM05AD42M3X at 200240 V three phase
	LXM05BD42M3X at 200240 V three phase
	LXM05CD42M3X at 200240 V three phase
	LXM15LD17N4 at 230 V three phase
	LXM15LD17N4 at 400 V three phase
	LXM15LD17N4 at 480 V three phase
	·
	LXM15LD28M3 at 230 V three phase
	LXM05AD34N4 at 380480 V three phase
	LXM05BD34N4 at 380480 V three phase
	LXM05CD34N4 at 380480 V three phase
	LXM15MD28N4 at 400 V three phase
	LXM15MD28N4 at 480 V three phase
	LXM15MD40N4 at 400 V three phase
	·
	LXM15MD40N4 at 480 V three phase
	LXM32.D30N4 at 400 V three phase
	LXM32.D30N4 at 480 V three phase
Shaft End	Kound
	Keyed
Ip Degree Of Protection	IP50 standard
Speed Feedback Resolution	131072 points/turn x 4096 turns
Holding Brake	With
Mounting Support	International standard flange
Electrical Connection	Straight connectors
Complementary	
Range Compatibility	Lexium 05
	Lexium 15
	Lexium 32
Supply Voltage Max	480 V
Supply Voltage Max	480 V
Supply Voltage Max  Network Number Of Phases	480 V Three phase
Network Number Of Phases	Three phase
Network Number Of Phases  Continuous Stall Current	Three phase 6.6 A
Network Number Of Phases	Three phase
Network Number Of Phases  Continuous Stall Current  Maximum Continuous Power	Three phase 6.6 A 3.14 W
Network Number Of Phases  Continuous Stall Current	Three phase 6.6 A 3.14 W 28.3 A for LXM15LD21M3
Network Number Of Phases  Continuous Stall Current  Maximum Continuous Power	Three phase 6.6 A 3.14 W 28.3 A for LXM15LD21M3 28.3 A for LXM15LD28M3
Network Number Of Phases  Continuous Stall Current  Maximum Continuous Power	Three phase 6.6 A 3.14 W 28.3 A for LXM15LD21M3 28.3 A for LXM15LD28M3 28.3 A for LXM15LD17N4
Network Number Of Phases  Continuous Stall Current  Maximum Continuous Power	Three phase 6.6 A 3.14 W 28.3 A for LXM15LD21M3 28.3 A for LXM15LD28M3
Network Number Of Phases  Continuous Stall Current  Maximum Continuous Power	Three phase 6.6 A 3.14 W 28.3 A for LXM15LD21M3 28.3 A for LXM15LD28M3 28.3 A for LXM15LD17N4
Network Number Of Phases  Continuous Stall Current  Maximum Continuous Power	Three phase 6.6 A 3.14 W 28.3 A for LXM15LD21M3 28.3 A for LXM15LD28M3 28.3 A for LXM15LD17N4 28.3 A for LXM15MD28N4
Network Number Of Phases  Continuous Stall Current  Maximum Continuous Power	Three phase  6.6 A  3.14 W  28.3 A for LXM15LD21M3 28.3 A for LXM15LD28M3 28.3 A for LXM15LD17N4 28.3 A for LXM15MD28N4 28.3 A for LXM15MD28N4 28.3 A for LXM15MD40N4 28.3 A for LXM05AD28M2
Network Number Of Phases  Continuous Stall Current  Maximum Continuous Power	Three phase  6.6 A  3.14 W  28.3 A for LXM15LD21M3 28.3 A for LXM15LD28M3 28.3 A for LXM15LD17N4 28.3 A for LXM15MD28N4 28.3 A for LXM15MD28N4 28.3 A for LXM15MD40N4 28.3 A for LXM05AD28M2 28.3 A for LXM05AD42M3X
Network Number Of Phases  Continuous Stall Current  Maximum Continuous Power	Three phase  6.6 A  3.14 W  28.3 A for LXM15LD21M3 28.3 A for LXM15LD28M3 28.3 A for LXM15LD17N4 28.3 A for LXM15MD28N4 28.3 A for LXM15MD28N4 28.3 A for LXM15MD40N4 28.3 A for LXM05AD28M2 28.3 A for LXM05AD42M3X 28.3 A for LXM05AD34N4
Network Number Of Phases  Continuous Stall Current  Maximum Continuous Power	Three phase  6.6 A  3.14 W  28.3 A for LXM15LD21M3 28.3 A for LXM15LD28M3 28.3 A for LXM15LD17N4 28.3 A for LXM15MD28N4 28.3 A for LXM15MD28N4 28.3 A for LXM15MD40N4 28.3 A for LXM05AD28M2 28.3 A for LXM05AD42M3X 28.3 A for LXM05AD34N4 28.3 A for LXM05BD28M2
Network Number Of Phases  Continuous Stall Current  Maximum Continuous Power	Three phase  6.6 A  3.14 W  28.3 A for LXM15LD21M3 28.3 A for LXM15LD28M3 28.3 A for LXM15LD17N4 28.3 A for LXM15MD28N4 28.3 A for LXM15MD28N4 28.3 A for LXM05AD28M2 28.3 A for LXM05AD28M2 28.3 A for LXM05AD42M3X 28.3 A for LXM05AD42M3X 28.3 A for LXM05AD34N4 28.3 A for LXM05BD28M2 28.3 A for LXM05BD28M2 28.3 A for LXM05BD28M2 28.3 A for LXM05BD42M3X
Network Number Of Phases  Continuous Stall Current  Maximum Continuous Power	Three phase  6.6 A  3.14 W  28.3 A for LXM15LD21M3 28.3 A for LXM15LD28M3 28.3 A for LXM15LD17N4 28.3 A for LXM15MD28N4 28.3 A for LXM15MD28N4 28.3 A for LXM05AD40N4 28.3 A for LXM05AD40M3X 28.3 A for LXM05AD34N4 28.3 A for LXM05AD34N4 28.3 A for LXM05BD28M2 28.3 A for LXM05BD28M2 28.3 A for LXM05BD42M3X 28.3 A for LXM05BD42M3X 28.3 A for LXM05BD42M3X
Network Number Of Phases  Continuous Stall Current  Maximum Continuous Power	Three phase  6.6 A  3.14 W  28.3 A for LXM15LD21M3 28.3 A for LXM15LD28M3 28.3 A for LXM15LD17N4 28.3 A for LXM15MD28N4 28.3 A for LXM15MD28N4 28.3 A for LXM05AD28M2 28.3 A for LXM05AD28M2 28.3 A for LXM05AD42M3X 28.3 A for LXM05AD42M3X 28.3 A for LXM05AD34N4 28.3 A for LXM05BD28M2 28.3 A for LXM05BD28M2 28.3 A for LXM05BD28M2 28.3 A for LXM05BD42M3X
Network Number Of Phases  Continuous Stall Current  Maximum Continuous Power	Three phase  6.6 A  3.14 W  28.3 A for LXM15LD21M3 28.3 A for LXM15LD28M3 28.3 A for LXM15LD17N4 28.3 A for LXM15MD28N4 28.3 A for LXM15MD28N4 28.3 A for LXM05AD40N4 28.3 A for LXM05AD40M3X 28.3 A for LXM05AD34N4 28.3 A for LXM05AD34N4 28.3 A for LXM05BD28M2 28.3 A for LXM05BD28M2 28.3 A for LXM05BD42M3X 28.3 A for LXM05BD42M3X 28.3 A for LXM05BD42M3X
Network Number Of Phases  Continuous Stall Current  Maximum Continuous Power	Three phase  6.6 A  3.14 W  28.3 A for LXM15LD21M3 28.3 A for LXM15LD28M3 28.3 A for LXM15LD17N4 28.3 A for LXM15MD28N4 28.3 A for LXM15MD40N4 28.3 A for LXM05AD28M2 28.3 A for LXM05AD42M3X 28.3 A for LXM05AD4M3X 28.3 A for LXM05AD4M3X 28.3 A for LXM05BD28M2 28.3 A for LXM05BD42M3X 28.3 A for LXM05BD42M3X 28.3 A for LXM05BD42M3X 28.3 A for LXM05BD42M3X 28.3 A for LXM05BD34N4 28.3 A for LXM05BD34N4 28.3 A for LXM05BD34N4
Network Number Of Phases  Continuous Stall Current  Maximum Continuous Power	Three phase  6.6 A  3.14 W  28.3 A for LXM15LD21M3 28.3 A for LXM15LD28M3 28.3 A for LXM15LD17N4 28.3 A for LXM15MD28N4 28.3 A for LXM15MD28N4 28.3 A for LXM05AD28M2 28.3 A for LXM05AD28M2 28.3 A for LXM05AD34N4 28.3 A for LXM05AD34N4 28.3 A for LXM05BD28M2 28.3 A for LXM05BD42M3X 28.3 A for LXM05BD42M3X 28.3 A for LXM05BD42M3X 28.3 A for LXM05BD42M3X 28.3 A for LXM05BD34N4 28.3 A for LXM05BD34N4 28.3 A for LXM05CD28M2 28.3 A for LXM05CD28M2 28.3 A for LXM05CD42M3X
Network Number Of Phases  Continuous Stall Current  Maximum Continuous Power	Three phase  6.6 A  3.14 W  28.3 A for LXM15LD21M3 28.3 A for LXM15LD28M3 28.3 A for LXM15LD17N4 28.3 A for LXM15MD28N4 28.3 A for LXM15MD40N4 28.3 A for LXM05AD28M2 28.3 A for LXM05AD42M3X 28.3 A for LXM05AD42M3X 28.3 A for LXM05BD28M2 28.3 A for LXM05BD42M3X 28.3 A for LXM05BD42M3X 28.3 A for LXM05BD42M3X 28.3 A for LXM05BD34N4 28.3 A for LXM05CD28M2 28.3 A for LXM05CD28M2 28.3 A for LXM05CD42M3X 28.3 A for LXM05CD42M3X 28.3 A for LXM05CD42M3X 28.3 A for LXM05CD42M3X
Network Number Of Phases  Continuous Stall Current  Maximum Continuous Power  Maximum Current Irms  Maximum Permanent Current	Three phase  6.6 A  3.14 W  28.3 A for LXM15LD21M3 28.3 A for LXM15LD28M3 28.3 A for LXM15LD17N4 28.3 A for LXM15MD28N4 28.3 A for LXM15MD40N4 28.3 A for LXM05AD28M2 28.3 A for LXM05AD28M2 28.3 A for LXM05AD42M3X 28.3 A for LXM05AD34N4 28.3 A for LXM05BD28M2 28.3 A for LXM05BD42M3X 28.3 A for LXM05BD42M3X 28.3 A for LXM05BD42M3X 28.3 A for LXM05BD34N4 28.3 A for LXM05CD42M3X 28.3 A for LXM05CD34N4 28.3 A for LXM32.D30N4
Network Number Of Phases  Continuous Stall Current  Maximum Continuous Power  Maximum Current Irms  Maximum Permanent Current  Switching Frequency	Three phase  6.6 A  3.14 W  28.3 A for LXM15LD21M3 28.3 A for LXM15LD28M3 28.3 A for LXM15LD17N4 28.3 A for LXM15MD28N4 28.3 A for LXM05MD28N4 28.3 A for LXM05AD28M2 28.3 A for LXM05AD42M3X 28.3 A for LXM05AD4M3X 28.3 A for LXM05AD34N4 28.3 A for LXM05BD28M2 28.3 A for LXM05BD42M3X 28.3 A for LXM05BD42M3X 28.3 A for LXM05BD42M3X 28.3 A for LXM05BD34N4 28.3 A for LXM05CD28M2 28.3 A for LXM05CD42M3X 28.3 A for LXM05CD34N4 28.3 A for LXM05CD34N4 28.3 A for LXM05CD34N4 28.3 A for LXM32.D30N4
Network Number Of Phases  Continuous Stall Current  Maximum Continuous Power  Maximum Current Irms  Maximum Permanent Current  Switching Frequency  Second Shaft	Three phase  6.6 A  3.14 W  28.3 A for LXM15LD21M3 28.3 A for LXM15LD28M3 28.3 A for LXM15LD28M3 28.3 A for LXM15LD17N4 28.3 A for LXM15MD28N4 28.3 A for LXM05AD28M2 28.3 A for LXM05AD28M2 28.3 A for LXM05AD42M3X 28.3 A for LXM05AD34N4 28.3 A for LXM05BD28M2 28.3 A for LXM05BD34N4 28.3 A for LXM05BD34N4 28.3 A for LXM05CD28M2 28.3 A for LXM05CD28M2 28.3 A for LXM05CD42M3X 28.3 A for LXM05CD34N4 28.3 A for LXM32.D30N4  Without second shaft end
Network Number Of Phases  Continuous Stall Current  Maximum Continuous Power  Maximum Current Irms  Maximum Permanent Current  Switching Frequency  Second Shaft  Shaft Diameter	Three phase 6.6 A 3.14 W 28.3 A for LXM15LD21M3 28.3 A for LXM15LD28M3 28.3 A for LXM15LD27N4 28.3 A for LXM15MD28N4 28.3 A for LXM15MD40N4 28.3 A for LXM05AD28M2 28.3 A for LXM05AD28M2 28.3 A for LXM05AD34N4 28.3 A for LXM05BD28M2 28.3 A for LXM05BD42M3X 28.3 A for LXM05BD42M3X 28.3 A for LXM05BD34N4 28.3 A for LXM05CD28M2 28.3 A for LXM05CD34N4
Network Number Of Phases  Continuous Stall Current  Maximum Continuous Power  Maximum Current Irms  Maximum Permanent Current  Switching Frequency  Second Shaft  Shaft Diameter  Shaft Length	Three phase 6.6 A 3.14 W 28.3 A for LXM15LD21M3 28.3 A for LXM15LD28M3 28.3 A for LXM15LD17N4 28.3 A for LXM15MD28N4 28.3 A for LXM05MD28N4 28.3 A for LXM05AD28M2 28.3 A for LXM05AD28M2 28.3 A for LXM05AD28M2 28.3 A for LXM05AD34N4 28.3 A for LXM05BD28M2 28.3 A for LXM05BD28M2 28.3 A for LXM05BD34N4 28.3 A for LXM05CD28M2 28.3 A for LXM05CD28M2 28.3 A for LXM05CD42M3X 28.3 A for LXM05CD34N4
Network Number Of Phases  Continuous Stall Current  Maximum Continuous Power  Maximum Current Irms  Maximum Permanent Current  Switching Frequency  Second Shaft  Shaft Diameter	Three phase 6.6 A 3.14 W 28.3 A for LXM15LD21M3 28.3 A for LXM15LD28M3 28.3 A for LXM15LD27N4 28.3 A for LXM15MD28N4 28.3 A for LXM15MD40N4 28.3 A for LXM05AD28M2 28.3 A for LXM05AD28M2 28.3 A for LXM05AD34N4 28.3 A for LXM05BD28M2 28.3 A for LXM05BD42M3X 28.3 A for LXM05BD42M3X 28.3 A for LXM05BD34N4 28.3 A for LXM05CD28M2 28.3 A for LXM05CD34N4
Network Number Of Phases  Continuous Stall Current  Maximum Continuous Power  Maximum Current Irms  Maximum Permanent Current  Switching Frequency  Second Shaft  Shaft Diameter  Shaft Length	Three phase 6.6 A 3.14 W 28.3 A for LXM15LD21M3 28.3 A for LXM15LD28M3 28.3 A for LXM15LD17N4 28.3 A for LXM15MD28N4 28.3 A for LXM05MD28N4 28.3 A for LXM05AD28M2 28.3 A for LXM05AD28M2 28.3 A for LXM05AD28M2 28.3 A for LXM05AD34N4 28.3 A for LXM05BD28M2 28.3 A for LXM05BD28M2 28.3 A for LXM05BD34N4 28.3 A for LXM05CD28M2 28.3 A for LXM05CD28M2 28.3 A for LXM05CD42M3X 28.3 A for LXM05CD34N4

Motor Flange Size	100 mm
Number Of Motor Stacks	3
Torque Constant	1.22 N.m/A at 120 °C
Back Emf Constant	77 V/krpm at 120 °C
Number Of Motor Poles	8
Rotor Inertia	3.838 kg.cm²
Stator Resistance	1.43 Ohm at 20 °C
Stator Inductance	8.8 mH at 20 °C
Stator Electrical Time Constant	6.15 ms at 20 °C
Maximum Radial Force Fr	1050 N at 1000 rpm 660 N at 4000 rpm 730 N at 3000 rpm 830 N at 2000 rpm
Maximum Axial Force Fa	0.2 x Fr
Brake Pull-In Power	18 W
Type Of Cooling	Natural convection
Length	271.5 mm
Centring Collar Diameter	95 mm
Centring Collar Depth	3.5 mm
Number Of Mounting Holes	4
Mounting Holes Diameter	9 mm
Circle Diameter Of The Mounting Holes	115 mm
Net Weight	8 kg

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	21.0 cm
Package 1 Width	18.0 cm
Package 1 Length	58.5 cm
Package 1 Weight	8.15 kg

# **Contractual warranty**

Warranty 18 months

## Sustainability

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

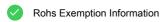




Transparency RoHS/REACh

# Well-being performance





Yes



Pvc Free

#### **Certifications & Standards**

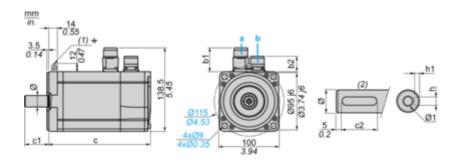
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
<b>Environmental Disclosure</b>	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	No need of specific recycling operations
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

### BSH1003P12F1A

#### **Dimensions Drawings**

#### **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	c (with	c1	c2	h	h1	Ø	Ø1 for
b1	b2	b1	b2	brake)	brake)						screws
39.5	25.5	39.5	39.5	241	272	40	30	6 N9	3.5 <sup>+0.1</sup> <sub>0</sub>	19 k6	M6 x 16

Dimensions in in.

Straight connectors		Rotatable angled connectors		c (without	c (with	c1	c2	h	h1	Ø	Ø1 for
b1	b2	b1	b2	brake)	brake)						screws
1.55	1.00	1.55	1.55	9.48	10.70	1.57	1.18	0.24 N9	0.14 <sup>+0.1</sup> 0	0.75 k6	M6 x 0.63

## **Product data sheet**

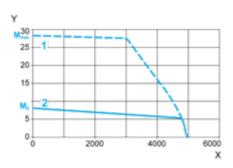
### BSH1003P12F1A

#### Performance Curves

### 400 V 3-Phase Supply Voltage

#### **Torque/Speed Curves**

Servo motor with LXM32•D30N4 servo drive



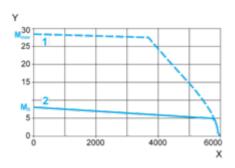
- **X** Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

### BSH1003P12F1A

#### 480 V 3-Phase Supply Voltage

#### **Torque/Speed Curves**

Servo motor with LXM32•D30N4 servo drive



- X Speed in rpm
- ${\bf Y}$  Torque in Nm
- 1 Peak torque
- 2 Continuous torque