Product data sheet
Characteristics

BMI0702P17A
servo motor BMI 3-phase - keyed IP54 multiturn - 32768 p/t x 4096 t



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	208...480 V - 15...10 %
Supply voltage limits	208…480 V
Network number of phases	Three phase
Supply frequency	50/60 Hz - 5...5 %
Network frequency limits	47.5…63 Hz
EMC filter	Integrated
Continuous output current	2 A at 8 kHz
Output current 3s peak	6 A at 400 V for 3 s
Continuous stall current	2 A
Continuous stall torque	2.48 N.M at 208...480 V three phase
Peak stall torque	6.8 N.M at 208 V three phase 6.8 N.M at 400 V three phase 6.8 N.M at 480 V three phase
Nominal output power	400 W at 208 V three phase 800 W at 400 V three phase 900 W at 480 V three phase
Nominal torque	2.4 N.M at 208 V three phase 2.2 N.M at 400 V three phase 2 N.M at 480 V three phase
Nominal speed	1800 rpm at 208 V three phase 3600 rpm at 400 V three phase 4400 rpm at 480 V three phase
Maximum current Irms	9.6 A at 208 V, three phase 9.6 A at 400 V, three phase 9.6 A at 480 V, three phase
Product compatibility	Drive control unit LXM32i CANopen Drive control unit LXM32i EtherCAT
Shaft end	Keyed
Second shaft	Without second shaft end
Shaft diameter	11 Mm
Shaft length	23 Mm
Key width	4 Mm
Feedback type	Absolute multiturn SinCos Hiperface
Speed feedback resolution	32768 points/turn x 4096 turns

Holding brake	Without
Mounting support	International standard flange
Motor flange size	70 Mm
Electrical connection	Printed circuit board connector
Torque constant	1.15 N.M/A at 20 °C
Back emf constant	77.18 V/Krpm at 20 °C
Number of motor poles	10
Rotor inertia	1.13 Kg.Cm²
Stator resistance	8.89 Ohm at 20 °C
Stator inductance	25.75 MH at 20 °C
Stator electrical time constant	2.9 Ms at 20 °C
Maximum radial force Fr	710 N at 1000 rpm 560 N at 2000 rpm 490 N at 3000 rpm 450 N at 4000 rpm 410 N at 5000 rpm 390 N at 6000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	268 Mm
Number of motor stacks	2
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	75…82 Mm
Distance shaft shoulder-flange	2.5 Mm

Environment

IP degree of protection	Shaft: IP54 Housing: IP65

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	26.0 Cm
Package 1 Width	20.0 Cm
Package 1 Length	59.0 Cm
Package 1 Weight	5.4 Kg

Offer Sustainability

Recyclability potential, in %	93
Total lifecycle Carbon footprint	3 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	2.093401828557471
Carbon footprint of the manufacturing phase [A1 to A3]	2 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	0
Carbon footprint of the use phase [B2, B3, B4, B6]	0 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	0.8510412600544691
Carbon footprint of the end-of-life phase [C1 to C4]	0.9 kg CO2 eq.
Total lifecycle Carbon footprint	3
Packaging made with recycled cardboard	Yes

Packaging without single use plastic	No
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, wh
PVC free	Yes
End of life manual availability	End Of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised