

3-phase stepper motor - 2.26 Nm - shaft Ã~ 12mm - L=68mm - w/o brake - term box

BRS397H360ABA

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Range Compatibility	Lexium SD3			
Product or Component Type	Motion control motor			
Device short name	BRS3			
Maximum mechanical speed	3000 rpm			
Motor Type	3-phase stepper motor			
Number of motor poles	6			
Supply voltage limits	34 V AC 48 V DC			
Mounting Support	Flange			
Motor flange size	3.3 in (85 mm)			
Length	4.4 in (111 mm)			
Centring collar diameter	2.4 in (60 mm)			

Complementary

centring collar depth	0.08 in (2 mm)			
Number of mounting holes	4			
Mounting holes diameter	0.3 in (6.5 mm)			
Circle diameter of the mounting holes	3.90 in (98.99 mm)			
Electrical Connection	Terminal box			
Holding brake	Without			
Shaft end	Smooth shaft			
Second shaft	Without second shaft end			
Shaft diameter	0.5 in (12 mm)			
Shaft length	1.2 in (30 mm)			
nominal torque	17.7 lbf.in (2 N.m)			
Holding torque	20.003 lbf.in (2.26 N.m)			
Rotor inertia	1.1 kg.cm²			
Resolution	1.8 °, 0.9 °, 0.72 °, 0.36 °, 0.18 °, 0.09 °, 0.072 °, 0.036 ° step angle 200, 400, 500, 1000, 2000, 4000, 5000, 10000 steps number of full steps per revolution			
Accuracy error	+/- 6 arc min			
Maximum starting frequency	5 kHz			

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Line Rated Current	5.8 A			
Resistance	0.35 Ohm winding)			
Time constant	7 ms			
Maximum radial force Fr	100 N first shaft end) 50 N second shaft end)			
Maximum axial force Fa	175 N tensile force) 30 N force pressure)			
Service life in hours	20000 h bearing)			
Angular acceleration	200000 rad/s²			
Net Weight	4.6 lb(US) (2.1 kg)			

Environment

Standards	IEC 50347 IEC 60072-1 Natural convection				
type of cooling					
Ambient Air Temperature for Operation	-13104 °F (-2540 °C)				
Ambient Air Temperature for Storage	-13158 °F (-2570 °C)				
Operating altitude	<= 3280.84 ft (1000 m) without power derating				
Relative humidity	1585 % without condensation				
Vibration resistance	20 m/s² maximum A IEC 60034-14				
IP degree of protection	IP56 total except shaft bushing: conforming to IEC 60034-5 IP41 shaft bushing without shaft seal ring: conforming to IEC 60034-5				
Temperature class	F winding IEC 60034-1				

Ordering and shipping details

Category	US1PC5518284			
Discount Schedule	PC55			
GTIN	3606485152608			
Returnability	No			
Country of origin	DE			

Packing Units

Unit Type of Package 1	PCE		
Nbr. of units in pkg.	1		
Package 1 Height	4.09 in (10.4 cm)		
Package 1 Width	7.09 in (18 cm)		
Package 1 Length	14.37 in (36.5 cm)		
Package weight(Lbs)	4.52 lb(US) (2.05 kg)		

Contractual warranty

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

☑ Environmental footprint	
Carbon footprint (kg CO2 eq, Total Life cycle)	1819
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACh Regulation	REACh Declaration
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
PVC free	Yes

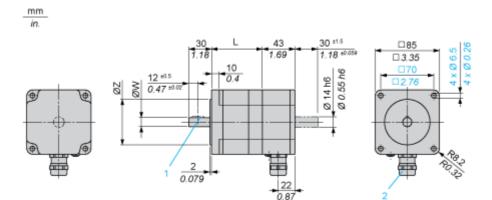
Use Again

○ Repack and remanufacture	
Circularity Profile	No need of specific recycling operations
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Dimensions Drawings

Dimensions

3-Phase Stepper Motor in Terminal Box Version



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Dimer	PUDIE	ın	mm
DILLICI	1310113		

L	Shaft diameter ØW	Centring collar ØZ	Woodruff key DIN 6888 (1)	Cable gland (2)
67.5 (+0.6) (-0.8)	12 h6	60 h8	4 x 6.5	ISO M20 x 1.5

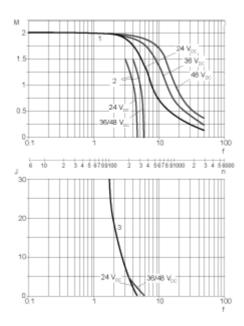
Dimensions in in.

L	Shaft diameter ØW	Centring collar ØZ	Woodruff key DIN 6888 (1)	Cable gland (2)	
2.66 (+0.023) (-0.031)	0.47 h6	2.36 h8	0.16 x 0.25	ISO M20 x 1.5	

Performance Curves

Torque Characteristics

Measurement at 1000 Steps/Revolution, Nominal Voltage DC Bus $\mathbf{U_N}$ and Phase Current $\mathbf{I_N}$



M: Torque in Nm

n: Speed in rpm

f: Frequency in kHz

J: Rotor inertia in kg.cm²

1: Pull-out torque

2: Pull-in torque

3: Maximum load inertia