

PRODUCT DATASHEET

ES-CM-BL12-M001

Coreless Brushless Miniature And Standard Series

Coreless Brushless Miniature And Standard Series | ES-CM-BL12 42 mm Coreless Brushless Motor Series

Product Overview

Coreless Brushless Miniature And Standard Series with rated Speed 8346 rpm, continuous Rated Output Power 80 W and continuous Rated Current 4.17 A.

Key Specifications

PARAMETER	VALUE	UNIT
Rated Speed	8346	rpm
Continuous Rated Output Power	80	W
Continuous Rated Current	4.17	A
Duty Cycle	S2	
Housing Type	T	
Motor Body Length	80	mm
Motor diameter	42	mm
Pole Pairs	1	

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Rated Speed	8346	rpm	Drawing Variant Suffix: -21
Continuous Rated Output Power	80	W	Drawing Variant Suffix: -21
ELECTRICAL			
Continuous Rated Current	4.17	A	Drawing Variant Suffix: -21
Duty Cycle	S2		
Pole Pairs	1		Drawing Variant Suffix: -21
MECHANICAL			
Housing Type	T		
Motor Body Length	80	mm	
Motor diameter	42	mm	

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Length dimension 1	20 mm
	Overall length	80 mm
	Shaft diameter with tolerance	Φ6 0/-0.03 mm
	Shaft extension length	2 mm
	Right side wall thickness or dimension identifier	1 mm
	Left boss diameter with tolerance	Φ17 0/-0.05 mm
	Overall housing height	150±10 mm
Mechanical View 2	Mounting flange outer diameter	Φ42
	Inner mounting circle diameter	Φ31
	Mounting threaded holes specification and quantity	4×M2.5 threaded holes, through
	Mounting hole pattern	Equally spaced (90° intervals)
Mechanical View 3	Mounting flange outer diameter	Φ30
	Mounting threaded holes specification and depth	2× M2.5 threaded holes, minimum depth 3mm

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01 Specifications are subject to change without notice. Verify the current product configuration before final design release.

02 2D drawings, CAD files and integration documentation are controlled documents and are supplied separately on request.