

DC Motor with Encoder · 1243N5M-EN-

Applications: Precision control fields like medical instrument, industrial robot and so on.

Operating Environment: -10 ~ +60; 15 ~ 90% RH

Motor Characteristics		63-12.0-EN520256-001
Voltage	V	12
Terminal resistance	Ω	32
No load speed	rpm	6300
No load current	mA	6
Stall torque	mNm	6.60
Stall current	mA	354
Load torque	mNm	1.7
Load speed	rpm	4600
Load current	mA	100
Max output power	W	1.1
Max. efficiency	%	70
Back-EMF constant	mV/rpm	1.87
Torque constant	mNm/A	17.91
Rotor inertia	gcm ²	0.6
Weight	g	21
Length	L [mm]	43
Encoder Characteristics		
Number of channels		2
Counts per turn	cpt	256
Supply voltage	V	5
Max operating frequency	kHz	110
High level output voltage	V	2.4 Min
Low level output voltage	V	0.4 Max
Phase shift	$^{\circ}$ e	90
Z index pulse width	$^{\circ}$ e	—

Options:

Lead wires length, shaft length, special coils, gearheads, encoder channels, encoder counts per turn

Dimension (mm) · 1243N5M-63-12.0-EN520256-001:

