

PRODUCT DATASHEET

ES-EG-C00-S007-V001

Robotic End-Effector

Three Finger Centric Electric Grippers | Electric Gripper Platform 07 Series

Product Overview

Robotic End-Effector with gripping Force (Per Side) 3~10 N, finger stroke 10 mm and maximum Recommended Payload 0.1 kg.

Key Specifications

PARAMETER	VALUE	UNIT
Gripping Force (Per Side)	3~10	N
Finger stroke	10	mm
Maximum Recommended Payload	0.1	kg
Position Repeatability	± 0.03	mm
Full-Stroke Open / Close Time	0.3 s/0.3	s
Operating Voltage	$24 \pm 10\%$	V DC
Weight	0.43	kg
Dimensions	94 x 53.5 x 38	mm
Allowable Load Moment (Mx)	0.62	N·m

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
PERFORMANCE		
Gripping Force (Per Side)	3~10	N
Finger stroke	10	mm
Maximum Recommended Payload	0.1	kg
Position Repeatability	± 0.03	mm
Full-Stroke Open / Close Time	0.3 s/0.3	s
Continuous Rated Output Power	7.2	W
Operating Noise	< 50	dB
Allowable static vertical load Fz	150	N
Allowable Load Moment (My)	0.62	N·m
Allowable Load Moment (Mx)	0.62	N·m
Allowable Load Moment (Mz)	0.62	N·m
ELECTRICAL		
Operating Voltage	$24 \pm 10\%$	V DC
MECHANICAL		
Weight	0.43	kg
COMPLIANCE		
Compliance Standards	CE, FCC, RoHS	
CONFIGURATION		
Dimensions	94 x 53.5 x 38	mm

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Hole diameter and depth	Diameter 3 mm, tolerance +0.02/0 mm, depth 3.2 mm
	Same feature on opposite side note	Same specification applies on the opposite side
	Hole position offset	3.5 mm position offset
	Vertical overall/feature spacing	30 mm vertical dimension
	Threaded mounting holes	4 × M4 threaded holes, depth 6 mm
	Horizontal hole spacing	10 mm horizontal spacing
		20 mm horizontal spacing
	Horizontal length dimension	58 mm horizontal dimension
Mechanical View 2	Overall height	200
	Cable securing and minimum allowable bending radius requirement	Secure cable at least 100 mm; allowable bending radius R50 mm
	Hole diameter and depth	Diameter 3 +0.02/0, depth 3.2
	Mounting threaded holes	4 x M4 threaded holes, depth 6
	Mounting hole horizontal position dimension	19.4
	Local hole offset	3.5
	Mounting hole vertical spacing	47.5
	Left-side offset dimension	11.5
	Mounting hole horizontal spacing	15
	Right-side mounting hole offset	20

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 5	M3 threaded holes quantity and depth	6 x M3 threaded holes, depth 3.5 mm
	Diameter 3 holes quantity, tolerance and depth	3 x $\Phi 3$ mm holes, +0.02/0 tolerance, depth 3.5 mm
	M2.5 threaded hole depth	M2.5 threaded hole, depth 3 mm
	Outer profile radius	Radius 36.5 mm
	Left vertical dimension	16.5 mm
		30.5 mm
	Right local height	8 mm
	Right overall local height	14 mm
	Fillet radius	Radius 5 mm
	Bottom oblique local dimension	10 mm
	Bottom oblique dimension	20 mm

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 6	Mounting hole center distance	15.7
	Mounting threaded hole specification	4-M4
	Mounting threaded hole depth	Depth 5
	Mounting hole center distance	3.5
	Mounting face width	12
	Center height	24
	Overall height	58
	Mounting face height	30.5
	Lower width	24
	Lower height	38

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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.