

PRODUCT DATASHEET

ES-EG-C00-S003-V001

Robotic End-Effector

Two Finger Parallel Electric Grippers | Electric Gripper Platform 03 Series

Product Overview

Robotic End-Effector with full-Stroke Open / Close Time 0.3 / 0.3 s, operating Voltage $24 \pm 10\%$ V DC and communication Interface Standard: Modbus RTU (RS485), Digital I/O; optional: TCP/IP, USB 2.0, CAN 2.0A, PROFINET, EtherCAT.

Key Specifications

PARAMETER	VALUE	UNIT
Full-Stroke Open / Close Time	0.3 / 0.3	s
Operating Voltage	$24 \pm 10\%$	V DC
Communication Interface	Standard: Modbus RTU (RS485), Digital I/O; optional: TCP/IP, USB 2.0, CAN 2.0A, PROFINET, EtherCAT	
Ingress Protection	IP 40	
Recommended Operating Environment	0-40 °C; relative humidity below 85%	
Standards Compliance	CE, FCC, RoHS	
Driving Method	Rack and pinion + crossed-roller guide	
Unweighted Noise Level	< 50	dB

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Full-Stroke Open / Close Time	0.3 / 0.3	s	
ELECTRICAL			
Operating Voltage	24 ± 10%	V DC	
Communication Interface	Modbus RTU		Connector: RS-485; Function: Standard
	Digital I/O		Function: Standard
	TCP/IP		Function: Optional
	USB 2.0		Function: Optional
	CAN 2.0A		Function: Optional
	PROFINET		Function: Optional
	EtherCAT		Function: Optional
MECHANICAL			
Driving Method	Rack and pinion + crossed-roller guide		
ENVIRONMENTAL			
Recommended Operating Environment	0-40 °C; relative humidity below 85%		
Unweighted Noise Level	< 50	dB	
Ingress Protection	IP 40		
COMPLIANCE			
Standards Compliance	CE, FCC, RoHS		

Mechanical Overview

Dimensional Drawings



2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Hole diameter with tolerance	Φ3 +0.02/0 mm
	Hole depth	Depth 3.2 mm
	Thread specification and quantity	4-M3 threaded holes
	Threaded hole depth	Depth 4 mm
	Horizontal distance	3.50 mm
	Vertical distance	20 mm
	Horizontal distance	10 mm
	Hole diameter with tolerance	Φ2 +0.02/0 mm
	Overall width	55 mm

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 2	Main body length	Length 95 mm
	Threaded mounting holes	4 x M3 threaded holes, depth 4 mm, same on opposite side
	Upper row locating holes	Diameter 3 mm, tolerance +0.02/0, depth 3.2 mm, same on opposite side
	Main body height	Height 57.40 mm
	Gripper opening range	Opening range: max 27 mm open, min 1 mm closed
	Side spacing	Spacing 3.50 mm
	Right side height or spacing	20 mm
	Bottom step offset	Offset 4.50 mm
	Hole center horizontal spacing	Hole center spacing 10 mm
		Hole center spacing 20 mm
	Through hole diameter	Diameter 9 mm
	Lower row locating holes	Diameter 3 mm, tolerance +0.02/0, depth 3.2 mm, same on opposite side
Mechanical View 3	M3 threaded hole specification	2-M3 thread, depth 4 mm
	Positioning hole specification (upper)	2 holes, $\Phi 2.50 +0.02$ mm, depth 3.2 mm
	Through hole or positioning hole specification	2 holes, $\Phi 2.90$ mm
	Positioning hole specification (lower)	2 holes, $\Phi 2.50 +0.02$ mm, depth 3.2 mm

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 4	Mounting hole spacing	20 mm
	Mounting threaded hole specification	4× M3 threaded holes, depth 4 mm
	Locating pin hole diameter and tolerance (upper)	Φ3 +0.02/0 mm
	Locating pin hole depth (upper)	Depth 3.2 mm
	Mounting hole spacing (vertical)	20 mm
	Locating pin hole diameter and tolerance (lower)	Φ3 +0.02/0 mm
	Locating pin hole depth (lower)	Depth 3.2 mm

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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.