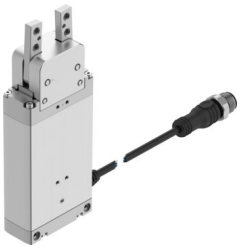
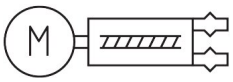
Radial gripper
HERC-16-180-A-EA

Part number: 8183820





Data sheet

Feature	Value
Size	16
Max. opening angle	180 deg
Repetition accuracy, gripper	0.1 mm
Number of gripper jaws	2
Drive system	Electrical
Mounting position	Any
Gripper function	Radial
Design	Electric gripper With lead screw
Conforms to standard	IEC 61010-1
Position detection	Via proximity switch
Type of motor	Brushless DC motor
Operator controls	Latching switch
Ready status indication	LED
Max. cycle frequency	1.1 Hz
Max. mass per external gripper finger	40 g
Max. current consumption	0.6 A
Nominal operating voltage DC	24 V
Permissible voltage fluctuations	+/-10%
Approval	RCM
KC mark	KC-EMV
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Corrosion resistance class CRC	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
Suitability for the production of Li-ion batteries	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)
Sound pressure level	60 dB(A)
Degree of protection	IP40
Ambient temperature	5 °C...60 °C
Total gripping force	28 N

Feature	Value
Gripping force per gripper jaw	14 N
Mass moment of inertia	2.04 kgcm²
Max. force on gripper jaw Fz static	60 N
Max. torque at gripper Mx static	2 Nm
Max. torque at gripper My static	1 Nm
Max. torque at gripper Mz static	1 Nm
Product weight	253 g
Electrical connection 1, function	Multi-pin
Electrical connection 1, connection type	Cable with plug
Electrical connection 1, design	Round
Electrical connection 1, connector system	M12x1, A-coded to EN 61076-2-101
Electrical connection 1, number of connections/cores	5
Electrical connection 1, used connections/cores	4
Type of mounting	Via female thread and centring sleeve
Note on materials	RoHS compliant
Material housing	Anodised aluminium
Material gripper jaws	High-alloy steel