

RL-D-30-A0101



1 Motor Kit

... for flange dimension

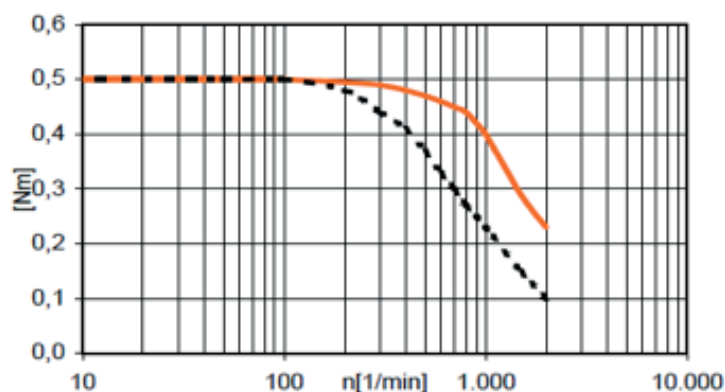
max voltage [VDC]	60
nominal voltage [VDC]	24 - 48
nominal current [A]	4,2
holding torque [Nm]	2
detent torque [Nm]	0,068
step angle [°]	1,8 ± 5 %
resistance / phase [Ω]	0,50 ± 10 %
inductance / phase [mH]	2,20 ± 20 %
moment of inertia / rotor [kg/cm ²]	0,48
max. shaft load axial [N]	15
max. shaft load radial [N]	52

RL-D-30-MK-C-N23-02

56 (NEMA23)

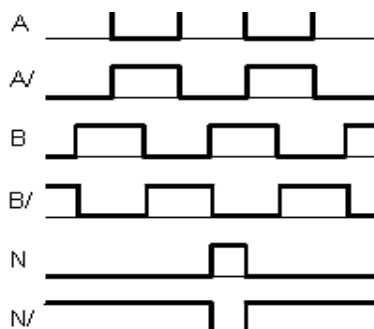
... motor characteristic

MOT-AN-S-060-020-056-...



... encoder motor

operating voltage [VDC]	5
impulse / turn [1/min]	500
zero impulse / index	yes
line-driver	RS422 protocol
signal sequence CW	A
(motor rotation clockwise)	A/
	B
	B/
	N
	N/



... weight

stranded wires [kg]	1,04
plug [kg]	1,12
encoder [kg]	1,14
encoder and brake [kg]	1,36

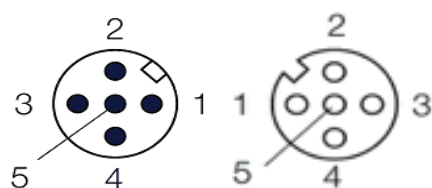
... operating data

ambient temperature [°C]	-10 ... +50
max temperature rise [°C]	80
insulation class	B
humidity (not condensing) [%]	85
protection class engine case	IP65 (shaft seal IP52), motor with stranded wires IP40
CE	EMV guideline

Pin assignment stepper motor

for flange dimension 42, 56, 60

(NEMA17, 23, 23XL)

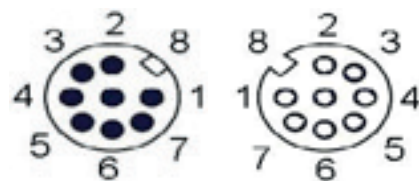


Motor bipolar M12 5-pole			Wires	Motor cable M12 5-pole
pin	signal	phase	color	color
1	A	1	brown	brown
2	A/		white	white
3	B	2	blue	blue
4	B/		black	black
5	PE		-	green/yellow
housing	shielding		-	-

Pin assignmen encoder

Flange dimension 42, 56, 60

(NEMA17, 23, 23XL)



Encoder M12 8-pole		Encoder cable M12 8-pole
pin	signal	color
1	A	white
2	A/	brown
3	B	green
4	B/	yellow
5	0V	grey
6	N/	pink
7	N	blue
8	5N DC	red
housing	shielding	shielding

2 Robot joint

... technical data standard version

weight	570 g
transmission	50:1
axis center distance	40 mm
efficiency factor	0,22 - 0,27
reverse play (output)	< 0,5°
breakaway torque	< 7 cNm
max. input / output torque (static)	1,2 Nm / 15 Nm
max. axial static load at horizontal installation	1,6 kN (short) / 0,8 kN (long)

RL-D-30-102-50-01035

3 Ini kit (Option)

igus® art. No.	INI-AB-I-025-A-AA
connection	M8x1
switching output	PNP
switching function	NO
power input	10 ... 30 V DC
rated op. current	100 mA

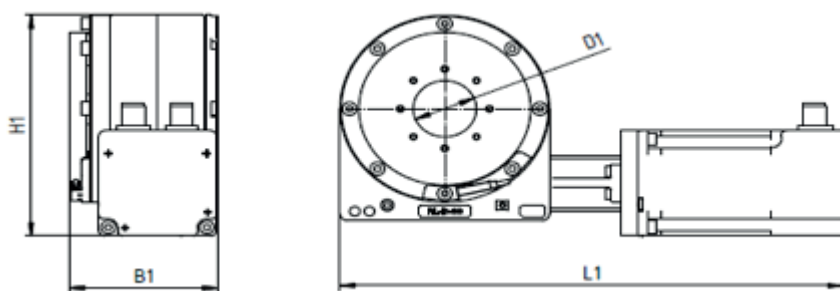
RL-D-30-IK-001

Joint construction kit

... robot joint with stepper motor

motor type	Step Motor NEMA 23
weight	1830 g
max. rad. Torque (short time)	15 Nm
max. rad. Torque (permanent)	7-10 Nm
max. speed (at max. load)	4 rpm
max. axial dynamic load (horizontal)	800 N

RL-D-30-A0101



Dimensions [mm]

A0101

D1	L1	B1	H1
30	240	70,5	118,2



Contact:

Martin Raak
Productmanager robolink®
Tel: +49 2203 9649 409
Fax +49 2203 9698 409
mraak@igus.de



igus® GmbH Spicher Str. 1a 51147 Cologne
Tel.: +49 2203 9649 0 Fax: +49 2203 9649 222
info@igus.eu www.igus.eu
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