

	Company
	Compiled by
	Date

Y N E U M A I I C															
Rotating flange mounting position					Actuator mounting position					Load diagram					
					c. · · · · α°										
Rotating flange mounting position															
Actuator mounting position a from 0° to 90°															
Pha	se No.				1	2	3	4	5	6	7	8	9	10	
Rotation angle (°deg) + clockwise (CW) - counterclockwise (CCW)															
Time	e (s)														
Mon	nent of inertia J with respect to the														
мс	MENTS OF INERTIA FOR THE MOST COMM														
	Denomination	Unit of measurement	t Formula	Example											
			Disco d												
м	Disk mass	kg		7											
d	Disk diameter	m ha m²	Md²	0.3											
5	Moment of inertia of the alsk	kg m-	= Mass distant from rotation axis	8 20.0707											
м	Mass	kg		0.5											
R	Distance between barycenter and rotation axis	m		0.2											
J	Moment of inertia of the mass	kg m²	= MR ² Paralleleningd with barycenter on rotation axis	= 0.5 × 0.2 ² = 0.02											
	Mara	ha		10											
L	Side of the parallelepiped	m		0.4											
J	Moment of inertia of the mass	kg m²	$= M \frac{L^2}{12}$	$=\frac{10 \cdot 0.4^2}{12} = 0.13$											
EXT	ERNAL FORCE (N) (e.g. force of a														
	Fa														
Fr															
POS	ITION OF EXTERNAL FORCE														
	a														
	r														
Resi	stant torque (Nm)														
Any space limitations															
Sho	uld the axis work "in position" (e.g.	, reach a define	ed angle, counteracting external torc	ues), or "in torque" (e.g.,	Torqu	e									
A feedback control is needed						Torque (brushless motor)									
					□ Positio	□ Position (stepper with encoder or brushless)									
No.	ot hours/day worked (h/d)														
ENV															
remperature *G / Humidity															
Nee	d for rotating flance stopped with r	notor not powe	vred												
Motor					Metal Work										
					Client To be	Client To be evaluated (produce both solutions)									
ACC	ESSORIES														
V-Lock Adapter															
Motor cable length															
Avai	lable supply voltage														
The control will be done with:					PLC with step-dir board and "Line Driver" signals PLC with step-dir board and "Open Collector" signals PLC with brushless axis board There is no PLC										
Short description, notes and draw of the possible application:															