

Positioning drive

- Features:** CANopen
 Integrated 1Q controller
 Integrated power electronics
 DC permanent magnet motor
 Absolute multi-turn encoder
 Life time: 2,000 h
 Isolation class: B, optional F
 Protection class: IP 42, optional up to IP 65
 Ambient temperature: -15°...40°C



Type	Description	U	V _{DC}	PSA 6325			
	Nominal voltage			24			
Technical data	Nominal power output	P ₂	W	43.5			
	Nominal speed	n _{nom}	rpm	2900			
	Nominal torque	M _{nom}	cNm	14.5			
	Nominal current	I	A	2.6			
	Stall torque	M	cNm	92.0			
	No load speed	n	rpm	3250			
	No load current	I	A	0.60			
	Positioning resolution			45°			
	Ascertainable revolutions			500 Mio			
Characteristics	Gradient speed-torque	1 / K	mNm / rpm	0.28			
	Speed constant	k _n	rpm / V	121			
	Torque constant	k _t	cNm / A	5.48			
	Nominal efficiency	η		0.70			
Dynamics	Weight	m	kg	1.1			
	Moment of inertia	J	gcm ²	563			
Thermal conditions	Ambient temperature	T _a	°C	-20 to +40			
	Max stator temperature	T _{max}	°C	+120			
Mechanical data	Shaft diameter	d	mm	8			
	Max. axial force	F _a	N	20			
	Max. radial force	F _r	N	220			
Communication	Fieldbus Profile	CANopen v. 2.0B DS-301 v. 4.02 DSP-305 v. 1.0					
	Max. baud rate	1 Mbit/s					

Dimensions	Type	L / mm
	PSA 6325	94

Gear - combinations	Worm gear	GS 3		
	other gears and extensions upon request	Spur gear	Z 6	Z 8
	Planetary gear	PM 50		