

# Brushless Positioning drive

<b>Features:</b>	CANopen
	Profibus-DP
	Integrated 4 Q controller
	Sinus commutation
	Absolute multi-turn encoder, Run records programmable
Rotor:	4-pole neodym magnet, low cogging
Life time:	20,000 h, S1 duty
Isolation class:	B, optional F
Protection class:	IP 44, optional up to IP 65
Ambient temperature:	-15°C ... 40°C
Protection:	Overtemperature protection, current limitation



Type		U	V <sub>DC</sub>	MSA 9567			
	Nominal voltage	U	V <sub>DC</sub>	24			
<b>Technical data</b>	Power output	P <sub>2</sub>	W	86			
	Nominal speed	n <sub>nom</sub>	rpm	550			
	Nominal torque	M <sub>nom</sub>	cNm	150			
	Starting torque	T <sub>S</sub>	Ncm	300			
	Nominal current	I	A	5.5			
	Nominal power input	P <sub>1</sub>	W	132			
	Positioning resolution			0.02°			
	Positioning accuracy			+/-1°			
<b>Characteristics</b>	Gradient torque-speed	1 / K	mNm / rpm	7.74			
	Max. torque	M	cNm	310			
	Nominal efficiency	η	%	63			
<b>Dynamics</b>	Weight	m	kg	4			
	Moment of inertia	J	gcm <sup>2</sup>	3700			
<b>Thermal cond.</b>	Ambient temperature	T <sub>U</sub>	°C	-20 to +40			
	Max. stator temperature	T <sub>max</sub>	°C	+120			
<b>Mechanical data</b>	Shaft diameter	d	mm	12			
	Max. axial force	F <sub>a</sub>	N	65			
	Max. radial force	F <sub>r</sub>	N	700			
<b>Communication</b>	Fieldbus Profile	CANopen v. 2.0B DS-301 v. 4.02 DSP-305 v. 1.0			Profibus Profibus Nr. 3 version 2.0		
	Max. baud rate	1 Mbit/s			12 Mbit/s		
<b>Dimension - Characteristics</b>		Type	L / mm				
		MSA 9567	204				

## Recommended gear - combinations

other gears and extensions upon request	Worm gear	SC 401
	Spur gear	M 10
	Planetary gear	PM 80