Servo motor EMMB-AS-60-04-S30SB Part number: 8097180

FESTO



General operating condition

Data sheet

Feature	Value
Ambient temperature	-15 °C 40 °C
Note on ambient temperature	Up to 60 °C with derating of -1.5% per degree Celsius
Max. installation height	4000 m
Information on max. installation height	with 1,000 m and longer only with derating of -1.0% per 100 m
Storage temperature	-20 ℃ 55 ℃
Relative air humidity	0 - 90 %
Conforms to standard	IEC 60034
Thermal class according to EN 60034-1	F
Max. winding temperature	155 ℃
Rating class according to EN 60034-1	S1
Temperature monitoring	Digital motor temperature transmission via Nikon A format
Motor type as per EN 60034-7	IM B5 IM V1 IM V3
Mounting position	Any
Degree of protection	IP65
Note on degree of protection	IP40 for motor shaft without rotary shaft seal IP54 for motor shaft with rotary shaft seal IP65 for motor housing without connection technology
Concentricity, coaxiality, axial runout according to DIN SPEC 42955	N
Balancing quality	G 2.5
Bearing lifetime, under nominal conditions	20000 h
Electrical connection 1, connection type	Plug
Electrical connection 1, connection technology	Connection diagram RE
Electrical connection 1, number of pins/wires	6
Electrical connection for input 1, connection pattern	00995792
Contamination level	2
Note on materials	RoHS-compliant
Corrosion resistance class (CRC)	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
Vibration resistance	Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27
Certification	c UL us - Recognized (OL)
CE marking (see declaration of conformity)	As per EU EMC directive As per EU low voltage directive As per EU RoHS directive

UKCA marking (see declaration of conformity) To UK instructions for EMC To UK RoHS instructions for EMC To UK RoHS instructions for EMC To UK RoHS instructions for electrical equipment UL E3/2973 Nominal operating voltage DC 300 V DC nominal voltage 300 V Type of winding switch Star inside Number of pole pairs Stall torque 1.4 Mm Nominal torque 1.27 Nm Peak torque 3.81 Nm Nominal torque 1.27 Nm Peak torque 3.81 Nm Nominal toray speed 3000 rpm Max. rotational speed 6000 rpm Max. rotational speed 6000 rpm Max. mechanical speed 10000 rpm Motor nominal power 400 W Continuous stall current 2.6 A Motor nominal current 7.2 A Notor constants 0.562 Nm/A Voltage constant, phase-to-phase 34 mVmin Phase-phase winding resistance 5.8 Ohm Winding inductance phase-phase 11.5 mH Electric time constant 1.98 ms Measuring flange 255 x 255 x 8 mm, aluminum Total output inertia moment Poduct weight Permissible axial shaft load 90 N Permissible axial shaft load 180 N Rotor position sensor for manufacturer designation Rotor position sensor for monufacturer designation Rotor position sensor for politonal values per revolution Rotor position encoder for DC operating voltage range Rotor position encod	Feature	Value
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Nominal rotary speed 3000 rpm Max. rotational speed 6000 rpm Max. mechanical speed 10000 rpm Motor nominal power 400 W Continuous stall current 2.6 A Motor nominal current 7.2 A Motor constants 0.562 Nm/A Voltage constant, phase-to-phase 34 mVmin Phase-phase winding resistance 5.8 0hm Winding inductance phase-phase 11.5 mH Electric time constant 1.98 ms Measuring flange 255 x 255 x 8 mm, aluminum Total output inertia moment 0.425 kgcm² Poduct weight 1900 g Permissible axial shaft load 90 N Permissible axial shaft load 180 N Rotor position sensor for manufacturer designation 5AR-ML50AJC00 Rotor position sensor for manufacturer designation 5AR-ML50AJC00 Rotor position sensor interface Nikon A-format Rotor position sensor interface Nikon A-format Rotor position encoder for DC operating voltage ange 4.75 V 5.25 V Rotor position encoder for positional values per revolution 1048576 Rotor position encoder for positional values per revolution 20 bit Rotor position encoder system accuracy angle measurement -120 arcsec 120 arcsec	· · · · · · · · · · · · · · · · · · ·	1.27 Nm
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Max. mechanical speed 10000 rpm Motor nominal power 400 W Continuous stall current 2.6 A Motor nominal current 7.2 A Peak current 7.2 A Motor constants 0.562 Nm/A Voltage constant, phase-to-phase 34 mVmin Phase-phase winding resistance 5.8 Ohm Winding inductance phase-phase 11.5 mH Electric time constant 1.98 ms Measuring flange 255 x 255 x 8 mm, aluminum Total output inertia moment 0.425 kgcm² Product weight 1900 g Permissible axial shaft load 90 N Permissible radial shaft load 180 N Rotor position sensor for manufacturer designation SAR-ML50AJC00 Rotor position sensor interface Nikon A-format Rotor position sensor interface Nikon A-format Rotor position sensor measuring principle Optical Rotor position encoder for DC operating voltage range 4.75 V 5.25 V Rotor position encoder for positional values per revolution 1048576 Rotor position encoder system accuracy angle measurement -120 arcsec 120 arcsec Brake holding torque 1.3 Nm	Nominal rotary speed	3000 rpm
Motor nominal power Continuous stall current 2.6 A Motor nominal current 2.4 A Peak current 7.2 A Motor constants 0.562 Nm/A Voltage constant, phase-to-phase 34 mVmin Phase-phase winding resistance Winding inductance phase-phase 11.5 mH Electric time constant 1.98 ms Measuring flange 255 x 255 x 8 mm, aluminum Total output inertia moment 0.425 kgcm² Product weight 1900 g Permissible axial shaft load Permissible radial shaft load Rotor position sensor Rotor position sensor for manufacturer designation Rotor position sensor for manufacturer designation Rotor position sensor interface Rotor position sensor measuring principle Rotor position sensor measuring principle Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage ange A.75 V 5.25 V Rotor position encoder for positional values per revolution Rotor position encoder for positional values per revolution Rotor position encoder for positional values per revolution Rotor position encoder system accuracy angle measurement -120 arcsec 120 arcsec Brake holding torque	Max. rotational speed	6000 rpm
Continuous stall current 2.6 A Motor nominal current 2.4 A Peak current 7.2 A Motor constants 0.562 Nm/A Voltage constant, phase-to-phase 34 mVmin Phase-phase winding resistance 5.8 0hm Winding inductance phase-phase 11.5 mH Electric time constant 1.98 ms Measuring flange 255 x 255 x 8 mm, aluminum Total output inertia moment 0.425 kgcm² Product weight 1900 g Permissible axial shaft load 90 N Permissible radial shaft load 180 N Rotor position sensor for manufacturer designation Rotor position sensor for manufacturer designation Rotor position sensor interface Rotor position sensor interface Nikon A-format Rotor position sensor measuring principle Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage Rotor position encoder for positional values per revolution Rotor position encoder for positional values per revolution Rotor position encoder system accuracy angle measurement 1.3 Nm	Max. mechanical speed	10000 rpm
Motor nominal current Peak current 7.2 A Motor constants 0.562 Nm/A Voltage constant, phase-to-phase 34 mVmin Phase-phase winding resistance 5.8 Ohm Winding inductance phase-phase 11.5 mH Electric time constant 1.98 ms Measuring flange 255 x 255 x 8 mm, aluminum Total output inertia moment 0.425 kgcm² Product weight 1900 g Permissible axial shaft load 90 N Permissible radial shaft load 80 N Rotor position sensor for manufacturer designation Rotor position encoder for absolutely detectable revolutions 1 Rotor position sensor interface Rotor position sensor interface Rotor position sensor measuring principle Optical Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage range 4.75 V 5.25 V Rotor position encoder for positional values per revolution Rotor position encoder system accuracy angle measurement 10.48576 Rotor position encoder system accuracy angle measurement 1.20 arcsec 120 arcsec Brake holding torque 1.3 Nm	Motor nominal power	400 W
Peak current 7.2 A Motor constants 0.562 Nm/A Voltage constant, phase-to-phase 34 mVmin Phase-phase winding resistance 5.8 Ohm Winding inductance phase-phase 11.5 mH Electric time constant 1.98 ms Measuring flange 255 x 255 x 8 mm, aluminum Total output inertia moment 0.425 kgcm² Product weight 1900 g Permissible axial shaft load 90 N Permissible radial shaft load 180 N Rotor position sensor Rotor position sensor for manufacturer designation SAR-ML50AJC00 Rotor position sensor interface Rotor position sensor measuring principle Rotor position sensor measuring principle Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage Rotor position encoder for positional values per revolution Rotor position sensor resolution 20 bit Rotor position encoder system accuracy angle measurement -120 arcsec 120 arcsec Brake holding torque 7.2 A 0.562 Nm/A 34 mVmin 9.4 mValuation 9.4 mVal	Continuous stall current	2.6 A
Motor constants 0.562 Nm/A Voltage constant, phase-to-phase Phase-phase winding resistance S.8 Ohm Winding inductance phase-phase 11.5 mH Electric time constant 1.98 ms Measuring flange 255 x 255 x 8 mm, aluminum Total output inertia moment 0.425 kgcm² Product weight 1900 g Permissible axial shaft load 90 N Permissible radial shaft load 180 N Rotor position sensor Absolute encoder, single-turn Rotor position sensor for manufacturer designation SAR-ML50AJC00 Rotor position sensor interface Nikon A-format Rotor position sensor measuring principle Optical Rotor position encoder for DC operating voltage SV Rotor position encoder for DC operating voltage range 4.75 V 5.25 V Rotor position sensor resolution 20 bit Rotor position encoder system accuracy angle measurement -120 arcsec 120 arcsec Brake holding torque 1.3 Nm	Motor nominal current	2.4 A
Voltage constant, phase-to-phase 34 mVmin Phase-phase winding resistance 5.8 Ohm Winding inductance phase-phase 11.5 mH Electric time constant 1.98 ms Measuring flange 255 x 255 x 8 mm, aluminum Total output inertia moment 0.425 kgcm² Product weight 1900 g Permissible axial shaft load 90 N Permissible radial shaft load 180 N Rotor position sensor Absolute encoder, single-turn Rotor position sensor for manufacturer designation SAR-ML50AJC00 Rotor position sensor interface Nikon A-format Rotor position sensor measuring principle Optical Rotor position encoder for DC operating voltage 5 V Rotor position encoder for DC operating voltage range 4.75 V 5.25 V Rotor position sensor resolution 20 bit Rotor position encoder system accuracy angle measurement -120 arcsec 120 arcsec Brake holding torque 1.3 Nm	Peak current	7.2 A
Phase-phase winding resistance Winding inductance phase-phase 11.5 mH Electric time constant 1.98 ms Measuring flange 255 x 255 x 8 mm, aluminum Total output inertia moment 0.425 kgcm² Product weight Product weight 1900 g Permissible axial shaft load 180 N Rotor position sensor Rotor position sensor for manufacturer designation Rotor position sensor for absolutely detectable revolutions 1 Rotor position sensor interface Rotor position sensor measuring principle Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage range 4.75 V 5.25 V Rotor position encoder for positional values per revolution Rotor position sensor resolution 20 bit Rotor position encoder system accuracy angle measurement 1.20 arcsec 120 arcsec 1.3 Nm	Motor constants	0.562 Nm/A
Winding inductance phase-phase Electric time constant 1.98 ms Measuring flange 255 x 255 x 8 mm, aluminum Total output inertia moment 0.425 kgcm² Product weight Permissible axial shaft load Permissible radial shaft load 80 N Rotor position sensor Rotor position encoder for absolutely detectable revolutions Rotor position sensor interface Rotor position sensor measuring principle Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage range Rotor position encoder for positional values per revolution Rotor position encoder system accuracy angle measurement 1.20 arcsec 120 arcsec Brake holding torque 1.3 Nm	Voltage constant, phase-to-phase	34 mVmin
Electric time constant 1.98 ms Measuring flange 255 x 255 x 8 mm, aluminum Total output inertia moment 0.425 kgcm² Product weight 1900 g Permissible axial shaft load 90 N Permissible radial shaft load 180 N Rotor position sensor Absolute encoder, single-turn Rotor position sensor for manufacturer designation SAR-ML50AJC00 Rotor position encoder for absolutely detectable revolutions 1 Rotor position sensor interface Rotor position sensor measuring principle Rotor position sensor measuring principle Rotor position encoder for DC operating voltage 5 V Rotor position encoder for DC operating voltage range 4.75 V 5.25 V Rotor position sensor resolution 20 bit Rotor position encoder system accuracy angle measurement 1.20 arcsec 120 arcsec Brake holding torque	Phase-phase winding resistance	5.8 Ohm
Measuring flange 255 x 255 x 8 mm, aluminum 0.425 kgcm² Product weight 1900 g Permissible axial shaft load 90 N Permissible radial shaft load Rotor position sensor Absolute encoder, single-turn Rotor position sensor for manufacturer designation SAR-ML50AJC00 Rotor position encoder for absolutely detectable revolutions Rotor position sensor interface Rotor position sensor measuring principle Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage range 4.75 V 5.25 V Rotor position sensor resolution Rotor position sensor resolution Rotor position encoder system accuracy angle measurement 1.20 arcsec 120 arcsec Brake holding torque 1.3 Nm	Winding inductance phase-phase	11.5 mH
Total output inertia moment Product weight Product weight Permissible axial shaft load Permissible radial shaft load Rotor position sensor Rotor position sensor for manufacturer designation Rotor position encoder for absolutely detectable revolutions Rotor position sensor interface Rotor position sensor measuring principle Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage arange Rotor position encoder for positional values per revolution Rotor position sensor resolution Rotor position encoder system accuracy angle measurement 1.3 Nm	Electric time constant	1.98 ms
Product weight 1900 g Permissible axial shaft load 90 N Permissible radial shaft load 180 N Rotor position sensor Absolute encoder, single-turn Rotor position sensor for manufacturer designation SAR-ML50AJC00 Rotor position encoder for absolutely detectable revolutions 1 Rotor position sensor interface Nikon A-format Rotor position sensor measuring principle Optical Rotor position encoder for DC operating voltage 5 V Rotor position encoder for DC operating voltage range 4.75 V 5.25 V Rotor position encoder for positional values per revolution 1048576 Rotor position encoder system accuracy angle measurement -120 arcsec 120 arcsec Brake holding torque 1.3 Nm	Measuring flange	255 x 255 x 8 mm, aluminum
Permissible axial shaft load 90 N Permissible radial shaft load 180 N Rotor position sensor Absolute encoder, single-turn Rotor position sensor for manufacturer designation SAR-ML50AJC00 Rotor position encoder for absolutely detectable revolutions 1 Rotor position sensor interface Nikon A-format Rotor position sensor measuring principle Optical Rotor position encoder for DC operating voltage 5 V Rotor position encoder for DC operating voltage range 4.75 V 5.25 V Rotor position encoder for positional values per revolution 1048576 Rotor position encoder system accuracy angle measurement -120 arcsec 120 arcsec Brake holding torque 1.3 Nm	Total output inertia moment	0.425 kgcm ²
Permissible radial shaft load Rotor position sensor Rotor position sensor for manufacturer designation Rotor position encoder for absolutely detectable revolutions Rotor position sensor interface Rotor position sensor measuring principle Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage ange Rotor position encoder for positional values per revolution Rotor position sensor resolution Rotor position encoder system accuracy angle measurement 120 arcsec 120 arcsec 1.3 Nm	Product weight	1900 g
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Rotor position sensor for manufacturer designation Rotor position encoder for absolutely detectable revolutions Rotor position sensor interface Rotor position sensor measuring principle Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage arnge Rotor position encoder for DC operating voltage range Rotor position encoder for positional values per revolution Rotor position sensor resolution 20 bit Rotor position encoder system accuracy angle measurement -120 arcsec 120 arcsec Brake holding torque 1.3 Nm	Permissible radial shaft load	180 N
Rotor position encoder for absolutely detectable revolutions Rotor position sensor interface Rotor position sensor measuring principle Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage ange Rotor position encoder for DC operating voltage range Rotor position encoder for positional values per revolution Rotor position sensor resolution Rotor position encoder system accuracy angle measurement -120 arcsec 120 arcsec Brake holding torque 1.3 Nm	Rotor position sensor	Absolute encoder, single-turn
Rotor position sensor interface Rotor position sensor measuring principle Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage 5 V Rotor position encoder for DC operating voltage range 4.75 V 5.25 V Rotor position encoder for positional values per revolution 1048576 Rotor position sensor resolution 20 bit Rotor position encoder system accuracy angle measurement -120 arcsec 120 arcsec Brake holding torque 1.3 Nm	Rotor position sensor for manufacturer designation	SAR-ML50AJC00
Rotor position sensor measuring principle Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage arnge 4.75 V 5.25 V Rotor position encoder for positional values per revolution 1048576 Rotor position sensor resolution 20 bit Rotor position encoder system accuracy angle measurement -120 arcsec 120 arcsec Brake holding torque 1.3 Nm	Rotor position encoder for absolutely detectable revolutions	1
Rotor position encoder for DC operating voltage 5 V Rotor position encoder for DC operating voltage range 4.75 V 5.25 V Rotor position encoder for positional values per revolution 1048576 Rotor position sensor resolution 20 bit Rotor position encoder system accuracy angle measurement -120 arcsec 120 arcsec Brake holding torque 1.3 Nm	Rotor position sensor interface	Nikon A-format
Rotor position encoder for DC operating voltage 5 V Rotor position encoder for DC operating voltage range 4.75 V 5.25 V Rotor position encoder for positional values per revolution 1048576 Rotor position sensor resolution 20 bit Rotor position encoder system accuracy angle measurement -120 arcsec 120 arcsec Brake holding torque 1.3 Nm	Rotor position sensor measuring principle	Optical
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Rotor position encoder for positional values per revolution 1048576 Rotor position sensor resolution 20 bit Rotor position encoder system accuracy angle measurement -120 arcsec 120 arcsec Brake holding torque 1.3 Nm	, , ,	
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Rotor position encoder system accuracy angle measurement -120 arcsec 120 arcsec Brake holding torque 1.3 Nm		
Brake holding torque 1.3 Nm	<u> </u>	
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	Brake DC operating voltage	
Brake power consumption 7.2 W		7.2 W