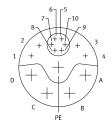
Servo motor EMMT-AS-100-M-HS-RMY Part number: 8160656

FESTO





Data sheet

Feature	Value
Ambient temperature	-15 °C40 °C
Note on ambient temperature	Up to 80 °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 °C70 °C
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 EnDat® 2.2
Motor type as per EN 60034-7	IM B5 IM V1 IM V3
Mounting position	Any
Degree of protection	IP40
Note on degree of protection	IP40 for motor shaft without rotary shaft seal IP65 for motor shaft with rotary shaft seal IP67 for motor housing, incl. connection technology
Concentricity, coaxiality, axial runout according to DIN SPEC 42955	N
Balancing quality	G 2.5
Detent torque	<1,0% vom Spitzendrehmoment
Bearing lifetime, under nominal conditions	20000 h
Interface code, motor out	100A
Electrical connection 1, connection type	Hybrid plug
Electrical connection 1, connection technology	M23x1
Electrical connection 1, number of pins/wires	15
Contamination level	2
Note on materials	RoHS-compliant
Corrosion resistance class (CRC)	0 - No corrosion stress

To UK RN5 instructions To UK Instructions for electrical equipment Starl torque Sea V Type of winding switch Starl inside Number of pole pairs Sall torque Sea Nm Nominal torque	Feature	Value
Shock resistance Shock resist	LABS (PWIS) conformity	VDMA24364 zone III
Certification Emarking (see declaration of conformity) Emarking (see declaration of conformity) Apper EU EMC discretive App	Vibration resistance	
German Technical Control Bloand (TUV) CUL us - Recognized (OLD) CE marking (see declaration of conformity) As per EU RM. directive UKCA marking (see declaration of conformity) TUV 968/INS 464.00/24 UK 634.00/24 UK	Shock resistance	Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27
As per EU low voltage directive As per EU Rot's directive UKCA marking (see declaration of conformity) TO UK instructions for EMC TO UK RoH's instructions To UK RoH's ins	Certification	German Technical Control Board (TÜV)
Certificate issuing authority Certificate issuing authority TU 968/INS 464.00/24 UL 5942973 Nominal operating voltage DC 680 V Type of winding switch Star Inside Number of pole pairs Stall torque 8.6 Nm Nominal torque 8.6 Nm Nominal torque 8.6 Nm Nominal torque 9.24 Nm Nominal torque 2.24 Nm Nominal torque 2.24 Nm Nominal torque 2.25 Nm Nominal torque 2.26 Nm Nominal rotary speed 2700 rpm Max. rotational speed Max. rotational speed Max. mechanical speed Max. mechanical speed Max. mechanical speed Motor nominal power 1770 W Continuous stall current 5.9 A Motor constants 1.46 Nm/A Standstill torque constant 1.66 Nm/A Voltage constant, phase-to-phase 100 mVmin Phase-phase winding resistance 1.84 Ohm Winding inductare phase-phase Winding ingitudinal inductivity Ld (phase) 10.2 mH Cross inductivity Lq (phase) 15.3 mH Electric time constant Thermal time constant Thermal teristance 0.5 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment Product weight Product weight Product weight Product weight Product weight Product weight Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage ange Rotor position encoder for DC operating voltage ange Rotor position encoder for DC operating voltage ange Rotor position encoder for DC operating voltage range Rotor position encoder for DC operating voltage range Rotor position encoder for DC operating voltage range Rotor position encoder for positional values per revolution 19 bit	CE marking (see declaration of conformity)	As per EU low voltage directive
UL 54/2973	UKCA marking (see declaration of conformity)	To UK RoHS instructions
Type of winding switch Star inside Number of pole pairs 5 Stall torque 8.6 Nm Nominal torque 6.3 Nm Peak torque 22.4 Nm Nominal tordary speed 2700 rpm Max. rotational speed 4790 rpm Max. mechanical speed 13000 rpm Angular acceleration 100000 rad/s² Motor nominal power 777 W Continuous stall current 5.9 A Motor nominal current 4.3 A Peak current 22.1 A Motor constants 1.46 Nm/A Standstill torque constant 1.66 Nm/A Voltage constant, phase-to-phase polyabse 100 m/min Voltage constant, phase-to-phase phase 100 m/min Winding inductance phase-phase 20.4 mH Winding inductance phase-phase 20.4 mH Winding inductivity Iq (phase) 15.3 mH Electric rime constant 1.66 Nm Thermal time constant 7.5 min Thermal time constant 7.5 min Thermal time constant 7.5 min	Certificate issuing authority	
Number of pole pairs Stall torque 8.6 Nm Nominal torque 6.3 Nm Peak torque 22.4 Nm Nominal rotary speed 2700 rpm Max. rotational speed Max. rotational speed Max. mechanical speed 13000 rpm Angular acceleration 100000 rad/s² Motor nominal power 1770 W Continuous stall current 4.3 A Peak current 4.3 A Peak current 4.3 A Motor constants 1.46 Nm/A Standstill torque constant 1.66 Nm/A Voltage constant, phase-to-phase 100 mVmin Phase-phase winding resistance Winding inductance phase-phase Winding inductance phas	Nominal operating voltage DC	680 V
Stall torque 8.6 Nm Nominal torque 6.3 Nm Peak torque 22.4 Nm Nominal rotary speed 2700 rpm Max. rotational speed 4790 rpm Max. mechanical speed 13000 rpm Angular acceleration 100000 rad/s² Motor nominal power 1770 W Continuous stall current 5.9 A Motor nominal current 4.3 A Peak current 22.1 A Motor constants 1.46 Nm/A Standstill torque constant 1.66 Nm/A Voltage constant, phase-to-phase phase 100 mVmin Phase-phase winding resistance 1.84 Ohm Winding inductance phase-phase 20.4 mH Winding longitudinal inductivity Ld (phase) 10.2 mH Cross inductivity Lq (phase) 15.3 mH Electric time constant 1.66 ms Thermal time constant 7.3 min Thermal tresistance 0.5 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 4.46 kgcm² Product weight 7100 g	Type of winding switch	Star inside
Nominal torque 6.3 Nm Peak torque 22.4 Nm Nominal rotary speed 2700 rpm Max. rotational speed 4790 rpm Max. mechanical speed 13000 rpm Angular acceleration 100000 rad/s² Motor nominal power 1770 W Continuous stall curent 4.3 A Motor nominal current 4.3 A Peak current 22.1 A Motor constants 1.46 Nm/A Standstill torque constant 1.66 Nm/A Voltage constant, phase-to-phase 100 mVmin Phase-phase winding resistance 1.84 Ohm Winding longitudinal inductivity Ld (phase) 10.2 mH Cross inductivity Ld (phase) 15.3 mH Electric time constant 16.6 ms Thermal time constant 7.3 min Thermal time constant 7.3 min Thermal resistance 0.5 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 4.46 kgcm² Premissible axial shaft load 200 N Permissible axial shaft load 1110 N	Number of pole pairs	5
Nominal torque 6.3 Nm Peak torque 22.4 Nm Nominal rotary speed 2700 rpm Max. rotational speed 4790 rpm Max. mechanical speed 13000 rpm Angular acceleration 100000 rad/s³ Motor nominal power 1770 W Continuous stall current 5.9 A Motor nominal current 4.3 A Peak current 22.1 A Motor constants 1.46 Nm/A Standstill torque constant 1.66 Nm/A Voltage constant, phase-to-phase 100 mVmin Phase-phase winding resistance 1.84 Ohm Winding Inductance phase-phase 20.4 mH Winding Inductance phase-phase 20.4 mH Cross inductivity Lq (phase) 15.3 mH Electric time constant 16.6 ms Thermal time constant 73 min Thermal time constant 73 min Thermal resistance 0.5 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 4.46 kgcm² Product weight 7100 g	Stall torque	8.6 Nm
Peak torque 22.4 Nm Nominal rotary speed 2700 rpm Max. rotational speed 4790 rpm Max. mechanical speed 130000 rpm Angular acceleration 100000 rad/s² Motor nominal power 1770 W Continuous stall curent 5.9 A Motor constants 4.3 A Peak current 22.1 A Motor constants 1.66 Nm/A Standstill torque constant 1.66 Nm/A Voltage constant, phase-to-phase 100 mVmin Phase-phase winding resistance 1.84 Ohm Winding longitudinal inductivity Ld (phase) 10.2 mH Cross inductivity Ld (phase) 15.3 mH Electric time constant 16.6 ms Thermal time constant 73 min Thermal resistance 0.5 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 4.46 kgcm² Product weight 7100 g Permissible axial shaft load 200 N Rotor position sensor Safety encoder, absolute multi-turn Rotor position sensor interface	Nominal torque	6.3 Nm
Max. rotational speed 4790 rpm Max. mechanical speed 13000 rpm Angular acceleration 100000 rad/s² Motor mominal power 12770 W Continuous stall current 5.9 A Motor nominal current 4.3 A Peak current 22.1 A Motor constants 1.46 Nm/A Standstill torque constant 1.66 Nm/A Voltage constant, phase-to-phase 100 mVmin Phase-phase winding resistance 1.84 Ohm Winding inductance phase-phase 20.4 mH Winding longitudinal inductivity Ld (phase) 10.2 mH Cross inductivity Lq (phase) 15.3 mH Electric time constant 16.6 ms Thermal tries constant 16.6 ms Thermal tries constant 17.0 ms Thermal resistance 0.5 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 4.46 kgcm² Product weight 7100 g Permissible axial shaft load 1110 N Rotor position sensor for manufacturer designation EQI 1331 Rotor	Peak torque	22.4 Nm
Max. mechanical speed 13000 rpm Angular acceleration 100000 rad/s² Motor nominal power 1770 W Continuous stall current 5.9 A Motor nominal current 4.3 A Peak current 22.1 A Motor constants 1.46 Nm/A Standstill torque constant 1.66 Nm/A Voltage constant, phase-to-phase 100 mV/min Phase-phase winding resistance 1.84 Ohm Winding inductance phase-phase 20.4 mH Winding longitudinal inductivity Ld (phase) 10.2 mH Cross inductivity Lq (phase) 15.3 mH Electric time constant 16.6 ms Thermal time constant 73 min Thermal resistance 0.5 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 4.46 kgcm² Product weight 7100 g Permissible axial shaft load 200 N Permissible axial shaft load 1110 N Rotor position sensor for manufacturer designation EQI 1331 Rotor position sensor finerface EnDat® 22	Nominal rotary speed	2700 rpm
Angular acceleration 100000 rad/s² Motor nominal power 1770 W Continuous stall current 5.9 A Motor nominal current 22.1 A Motor constants 1.46 Nm/A Standstill torque constant 1.66 Nm/A Voltage constant, phase-to-phase 100 mVmin Phase-phase winding resistance 1.84 Ohm Winding inductance phase-phase 20.4 mH Winding longitudinal inductivity Ld (phase) 10.2 mH Cross inductivity Lq (phase) 15.3 mH Electric time constant 73 min Thermal resistance 0.5 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 4.46 kgcm² Product weight 7100 g Permissible axial shaft load 200 N Permissible axial shaft load 1110 N Rotor position sensor for manufacturer designation EQI 1331 Rotor position sensor for manufacturer designation EQI 1301 Rotor position sensor measuring principle Inductive Rotor position encoder for DC operating voltage range 3.6 V14 V Rotor position encoder for DC operating voltage range 3.6 V14 V Rotor position encoder for DC operating voltage range 3.6 V14 V Rotor position encoder for DC operating voltage range 3.6 V14 V Rotor position encoder for DC operating voltage range 3.6 V14 V Rotor position encoder for DC operating voltage range 3.6 V14 V Rotor position encoder for DC operating voltage range 3.6 V14 V Rotor position encoder for DC operating voltage range 3.6 V14 V Rotor position encoder for DC operating voltage range 3.6 V14 V	Max. rotational speed	4790 rpm
Motor nominal power Continuous stall current 5.9 A Motor nominal current 4.3 A Peak current 22.1 A Motor constants 1.46 Nm/A Standstill torque constant 1.66 Nm/A Voltage constant, phase-to-phase 100 mVmin Phase-phase winding resistance 1.84 Ohm Winding inductance phase-phase Winding longitudinal inductivity Ld (phase) Cross inductivity Lq (phase) 15.3 mH Electric time constant 16.6 ms Thermal time constant Thermal time constant 73 min Thermal resistance 0.5 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 4.46 kgcm² Product weight 7100 g Permissible axial shaft load 1110 N Rotor position sensor for manufacturer designation Rotor position sensor for manufacturer designation 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 DC operating voltage Rotor position encoder for DC operating voltage ange Rotor position encoder for positional values per revolution 524288 Rotor position encoder for positional values per revolution 19 bit	Max. mechanical speed	13000 rpm
Continuous stall current 5.9 A Motor nominal current 4.3 A Peak current 22.1 A Motor constants 1.46 Nm/A Standstill torque constant Voltage constant, phase-to-phase 100 mVmin Phase-phase winding resistance 1.84 Ohm Winding inductance phase-phase 20.4 mH Winding longitudinal inductivity Ld (phase) 10.2 mH Cross inductivity Lq (phase) 15.3 mH Electric time constant Thermal resistance 0.5 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 4.46 kgcm² Product weight 7100 g Permissible axial shaft load 1110 N Rotor position sensor for manufacturer designation Rotor position sensor for manufacturer designation Rotor position sensor interface Rotor position sensor measuring principle Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage ange Rotor position enc	Angular acceleration	100000 rad/s ²
Motor nominal current 4.3 A Peak current 22.1 A Motor constants 1.46 Mm/A Standstill torque constant 1.66 Nm/A Voltage constant, phase-to-phase Phase-phase winding resistance 1.84 Ohm Winding inductance phase-phase Winding inductance phase-phase 20.4 mH Winding longitudinal inductivity Ld (phase) 10.2 mH Cross inductivity Lq (phase) 15.3 mH Electric time constant 16.6 ms Thermal time constant 73 min Thermal resistance 0.5 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 4.46 kgcm² Product weight 7100 g Permissible axial shaft load 200 N Permissible radial shaft load 1110 N Rotor position sensor for manufacturer designation Rotor position sensor for manufacturer designation Rotor position sensor measuring principle Rotor position sensor measuring principle Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage range	Motor nominal power	1770 W
Peak current 22.1 A Motor constants 1.46 Nm/A Standstill torque constant 1.66 Nm/A Voltage constant, phase-to-phase 100 mVmin Phase-phase winding resistance 1.84 Ohm Winding inductance phase-phase 20.4 mH Winding longitudinal inductivity Ld (phase) 15.3 mH Electric time constant 16.6 ms Thermal time constant 73 min Thermal resistance 0.5 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 4.46 kgcm² Product weight 7100 g Permissible axial shaft load 200 N Permissible axial shaft load 1110 N Rotor position sensor for manufacturer designation Rotor position sensor for manufacturer designation Rotor position sensor interface EnDat® 22 Rotor position sensor measuring principle Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage range Rotor position encoder for Do operating voltage range Rotor position encoder for Do operating voltage range Rotor position encoder for positional values per revolution 19 bit	Continuous stall current	5.9 A
Motor constants 1.46 Nm/A Standstill torque constant 1.66 Nm/A Voltage constant, phase-to-phase 100 mVmin Phase-phase winding resistance 1.84 Ohm Winding inductance phase-phase 20.4 mH Winding longitudinal inductivity Ld (phase) 10.2 mH Cross inductivity Lq (phase) 15.3 mH Electric time constant 16.6 ms Thermal time constant Thermal resistance 0.5 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 4.46 kgcm² Product weight 7100 g Permissible axial shaft load 200 N Permissible radial shaft load 1110 N Rotor position sensor for manufacturer designation Rotor position sensor for manufacturer designation Rotor position sensor for manufacturer designation 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 DC operating voltage range Rotor position encoder for positional values per revolution Rotor position encoder for positional values per revolution S24288 Rotor position sensor resolution Rotor position sensor resolution Rotor position encoder for positional values per revolution S24288 Rotor position sensor resolution	Motor nominal current	4.3 A
Standstill torque constant Voltage constant, phase-to-phase 100 mVmin Phase-phase winding resistance 1.84 0hm Winding inductance phase-phase 20.4 mH Winding longitudinal inductivity Ld (phase) 10.2 mH Cross inductivity Lq (phase) 15.3 mH Electric time constant 16.6 ms Thermal time constant 73 min Thermal resistance 0.5 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 4.46 kgcm² Product weight 7100 g Permissible axial shaft load 200 N Permissible radial shaft load 1110 N Rotor position sensor for manufacturer designation Rotor position sensor for manufacturer designation EQI 1331 Rotor position sensor interface Rotor position sensor interface Rotor position sensor interface Rotor position sensor measuring principle Inductive Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage Rotor position encoder for positional values per revolution 524288 Rotor position encoder for positional values per revolution 19 bit	Peak current	22.1 A
Voltage constant, phase-to-phase Phase-phase winding resistance 1.84 Ohm Winding inductance phase-phase 20.4 mH Winding longitudinal inductivity Ld (phase) 10.2 mH Cross inductivity Lq (phase) 15.3 mH Electric time constant 16.6 ms Thermal time constant 73 min Thermal resistance 0.5 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 4.46 kgcm² Product weight 7100 g Permissible axial shaft load 200 N Permissible radial shaft load 1110 N Rotor position sensor for manufacturer designation EQI 1331 Rotor position sensor interface EnDat® 22 Rotor position sensor measuring principle Inductive Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage range Rotor position encoder for positional values per revolution 524288 Rotor position encoder for positional values per revolution 19 bit	Motor constants	1.46 Nm/A
Phase-phase winding resistance 1.84 Ohm Winding inductance phase-phase 20.4 mH Winding longitudinal inductivity Ld (phase) 10.2 mH Cross inductivity Lq (phase) 15.3 mH Electric time constant 16.6 ms Thermal time constant 73 min Thermal resistance 0.5 K/W Measuring flange 300 x 300 x 20 mm, steel 4.46 kgcm² Product weight 7100 g Permissible axial shaft load 200 N Permissible radial shaft load 1110 N Rotor position sensor for manufacturer designation Rotor position sensor for manufacturer designation Rotor position sensor interface 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 Selevance 20.4 mH 10.2 mH 10.2 mH 10.2 mH 10.3 min 10.4 min 10.5 min 10.5 min 10.6 ms 10.6 ms 10.7 min 10.8 min 10.8 min 10.8 min 10.8 min 10.9 min	Standstill torque constant	1.66 Nm/A
Winding inductance phase-phase Winding longitudinal inductivity Ld (phase) 10.2 mH Cross inductivity Lq (phase) 15.3 mH Electric time constant 16.6 ms Thermal time constant 73 min Thermal resistance 0.5 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 4.46 kgcm² Product weight 7100 g Permissible axial shaft load 200 N Permissible radial shaft load 1110 N Rotor position sensor for manufacturer designation EQI 1331 Rotor position sensor interface EnDat® 22 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 Formal inductive Rotor position sensor resolution 19 bit	Voltage constant, phase-to-phase	100 mVmin
Winding longitudinal inductivity Ld (phase) 10.2 mH Cross inductivity Lq (phase) 15.3 mH Electric time constant 73 min Thermal time constant 73 min Thermal resistance 0.5 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 4.46 kgcm² Product weight 7100 g Permissible axial shaft load 200 N Permissible radial shaft load 1110 N Rotor position sensor Safety encoder, absolute multi-turn Rotor position sensor for manufacturer designation EQI 1331 Rotor position sensor interface EnDat® 22 Rotor position sensor measuring principle Inductive 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 sensor resolution 19 bit	Phase-phase winding resistance	1.84 Ohm
Cross inductivity Lq (phase) 15.3 mH Electric time constant 73 min Thermal time constant 73 min Thermal resistance 0.5 K/W Measuring flange 300 x 300 x 20 mm, steel 7100 g Permissible axial shaft load Permissible radial shaft load Rotor position sensor for manufacturer designation Rotor position sensor 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 19 bit 15.3 mH 16.6 ms 16.6 ms 17.00 ms 19.3 min 16.6 ms 17.00 ms 10.5 K/W 10.5	Winding inductance phase-phase	20.4 mH
Electric time constant Thermal time constant 73 min Thermal resistance 0.5 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 4.46 kgcm² Product weight 7100 g Permissible axial shaft load 200 N Permissible radial shaft load 1110 N Rotor position sensor Rotor position sensor for manufacturer designation EQI 1331 Rotor position encoder for absolutely detectable revolutions Rotor position sensor interface EnDat® 22 Rotor position sensor measuring principle Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage range 3.6 V14 V Rotor position encoder for positional values per revolution 19 bit	Winding longitudinal inductivity Ld (phase)	10.2 mH
Thermal time constant Thermal resistance 0.5 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 4.46 kgcm² Product weight 7100 g Permissible axial shaft load 200 N Permissible radial shaft load 1110 N Rotor position sensor Safety encoder, absolute multi-turn Rotor position encoder for absolutely detectable revolutions Rotor position sensor interface EnDat® 22 Rotor position sensor measuring principle Inductive Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage range Rotor position encoder for positional values per revolution 524288 Rotor position sensor resolution 19 bit	Cross inductivity Lq (phase)	15.3 mH
Thermal resistance O.5 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 4.46 kgcm² Product weight 7100 g Permissible axial shaft load 200 N Permissible radial shaft load 1110 N Rotor position sensor Safety encoder, absolute multi-turn Rotor position sensor for manufacturer designation EQI 1331 Rotor position encoder for absolutely detectable revolutions Rotor position sensor interface EnDat® 22 Rotor position sensor measuring principle Inductive Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage range 3.6 V14 V Rotor position encoder for positional values per revolution 524288 Rotor position sensor resolution 19 bit	Electric time constant	16.6 ms
Measuring flange 300 x 300 x 20 mm, steel 70tal output inertia moment 4.46 kgcm² 7100 g Permissible axial shaft load 200 N Permissible radial shaft load 81110 N Rotor position sensor 8afety encoder, absolute multi-turn Rotor position sensor for manufacturer designation EQI 1331 Rotor position encoder for absolutely detectable revolutions Rotor position sensor interface EnDat® 22 Rotor position sensor measuring principle Inductive Rotor position encoder for DC operating voltage So V Rotor position encoder for DC operating voltage range 3.6 V14 V Rotor position sensor resolution 19 bit	Thermal time constant	73 min
Total output inertia moment Product weight 7100 g Permissible axial shaft load Permissible radial shaft load 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 positional values per revolution Safety encoder, absolute multi-turn EQI 1331 4096 Rotor position sensor interface EnDat® 22 Rotor position sensor measuring principle Inductive Rotor position encoder for DC operating voltage 5 V Rotor position encoder for DC operating voltage range 3.6 V14 V Rotor position encoder for positional values per revolution 524288 Rotor position sensor resolution	Thermal resistance	0.5 K/W
Product weight Permissible axial shaft load Permissible radial shaft load Permissible radial shaft load 1110 N Rotor position sensor Safety encoder, absolute multi-turn Rotor position sensor for manufacturer designation EQI 1331 Rotor position encoder for absolutely detectable revolutions 4096 Rotor position sensor interface EnDat® 22 Rotor position sensor measuring principle Inductive Rotor position encoder for DC operating voltage Sty Rotor position encoder for DC operating voltage range 3.6 V14 V Rotor position encoder for positional values per revolution 524288 Rotor position sensor resolution 19 bit	Measuring flange	300 x 300 x 20 mm, steel
Permissible axial shaft load Permissible radial shaft load Rotor position sensor Safety encoder, absolute multi-turn 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 range Rotor position encoder for positional values per revolution Sequence of the position encoder for positional values per revolution Sequence of the position encoder for positional values per revolution Sequence of the position encoder for positional values per revolution Sequence of the position encoder for positional values per revolution Sequence of the position encoder for positional values per revolution Sequence of the position encoder for positional values per revolution Sequence of the position encoder for positional values per revolution Sequence of the position encoder for positional values per revolution Sequence of the position encoder for positional values per revolution Sequence of the position encoder for positional values per revolution Sequence of the position encoder for positional values per revolution Sequence of the position encoder for positional values per revolution Sequence of the position encoder for positional values per revolution Sequence of the position encoder for positional values per revolution Sequence of the position encoder for position encod	Total output inertia moment	4.46 kgcm²
Permissible radial shaft load Rotor position sensor Safety encoder, absolute multi-turn Rotor position sensor for manufacturer designation Rotor position encoder for absolutely detectable revolutions Rotor position sensor interface EnDat® 22 Rotor position sensor measuring principle Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage range 3.6 V14 V Rotor position encoder for positional values per revolution 524288 Rotor position sensor resolution 19 bit	Product weight	7100 g
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 range Rotor position encoder for positional values per revolution Source of the position encoder for positional values per revolution Safety encoder, absolute multi-turn EQI 1331 Rotor position sensor interface EnDat® 22 Inductive 5 V Rotor position encoder for DC operating voltage 3.6 V14 V Rotor position encoder for positional values per revolution 524288 Rotor position sensor resolution	Permissible axial shaft load	200 N
Rotor position sensor for manufacturer designation EQI 1331 Rotor position encoder for absolutely detectable revolutions 4096 Rotor position sensor interface EnDat® 22 Rotor position sensor measuring principle Inductive Rotor position encoder for DC operating voltage 5 V Rotor position encoder for DC operating voltage range 3.6 V14 V Rotor position encoder for positional values per revolution 524288 Rotor position sensor resolution 19 bit	Permissible radial shaft load	1110 N
Rotor position encoder for absolutely detectable revolutions Rotor position sensor interface EnDat® 22 Rotor position sensor measuring principle Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage range 3.6 V14 V Rotor position encoder for positional values per revolution 524288 Rotor position sensor resolution 19 bit	Rotor position sensor	Safety encoder, absolute multi-turn
Rotor position sensor interface EnDat® 22 Rotor position sensor measuring principle Inductive Rotor position encoder for DC operating voltage 5 V Rotor position encoder for DC operating voltage range 3.6 V14 V Rotor position encoder for positional values per revolution 524288 Rotor position sensor resolution 19 bit	Rotor position sensor for manufacturer designation	EQI 1331
Rotor position sensor measuring principle Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage 3.6 V14 V Rotor position encoder for positional values per revolution 524288 Rotor position sensor resolution 19 bit	Rotor position encoder for absolutely detectable revolutions	4096
Rotor position encoder for DC operating voltage 5 V Rotor position encoder for DC operating voltage range 3.6 V14 V Rotor position encoder for positional values per revolution 524288 Rotor position sensor resolution 19 bit	Rotor position sensor interface	EnDat® 22
Rotor position encoder for DC operating voltage range 3.6 V14 V Rotor position encoder for positional values per revolution 524288 Rotor position sensor resolution 19 bit	Rotor position sensor measuring principle	Inductive
Rotor position encoder for positional values per revolution 524288 Rotor position sensor resolution 19 bit	Rotor position encoder for DC operating voltage	5 V
Rotor position sensor resolution 19 bit	Rotor position encoder for DC operating voltage range	3.6 V14 V
· · · · · · · · · · · · · · · · · · ·	Rotor position encoder for positional values per revolution	524288
Rotor position encoder system accuracy angle measurement -65 arcsec65 arcsec	Rotor position sensor resolution	19 bit
	Rotor position encoder system accuracy angle measurement	-65 arcsec65 arcsec

Feature	Value
	Safety device Safety integrity level 3 See user documentation Reliable recording and transmission of single-turn position data Reliable recording and transmission of single-turn position data, only with additional software function in the servo drive Performance Level e, Category 3 See user documentation Reliable recording and transmission of single-turn position data Reliable recording and transmission of single-turn position data, only with additional software function in the servo drive
PFHd, subcomponent	15 x 10E-9, encoder
Duration of use Tm, subcomponent	20 years, rotor position sensor
Energy efficiency	ENEFF (CN) / Class 2