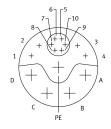
Servo motor EMMT-AS-80-H-HS-RMYB Part number: 8185114

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% of peak torque
Bearing lifetime, under nominal conditions	20000 h
Interface code, motor out	80P
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

Type of winding switch Star inside Number of pole pairs 5 Stall torque 4.3 km Nominal torque 3.4 km Peak torque 13.5 Nm Nominal rotary speed 3000 rpm Mouth and Speed 6500 rpm Angular acceleration 100000 rad/s² Motor nominal power 1070 W Continuous stall current 4.8 A Motor nominal current 3.8 A Peak current 21.7 A Motor constants 0.9 km/A Standstill torque constant 1 km/A Voltage constant, phase-to-phase 61.4 mVmin Phase-phase winding resistance 2.21 Ohm Winding inductance phase-phase 10.7 mH Winding inductivity Lq (phase) 8 mH Electric time constant 7.2 ms Thermal time constant 5 min Thermal time constant 5 min <th>Feature</th> <th>Value</th>	Feature	Value
Shock resistance Shock	LABS (PWIS) conformity	VDMA24364 zone III
Certification Certificatio	Vibration resistance	
German Technical Control Board (TUV) cl U. s. Recognized (Ols) As per EU RM Circuitve As DE EU RM Circuitve As DE EU RM Circuit As Circu	Shock resistance	Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27
As per EU Bow Voltage directive As per EU Bow Scheder Chee Bayer EU Bow Scheder Chee Bayer EU Bow Scheder Chee Bulk CA marking (see declaration of conformity) To UK instructions for EMC To UK Roh's Instructions To UK instructions for electrical equipment To UK 968/INS 646.00/24 UK 942/973 Nominal operating voltage DC 565 V Type of Winding switch Star Inside Number of pole pairs Stall torque 4.3 Nm Nominal torque 4.3 Nm Nominal torque 3.4 Nm Nominal torque 3.4 Nm Nominal torque 3.5 Nm Nominal torque 3.6 Nm Nominal torque 4.7 Nm Nominal torque 4.8 Nm Nominal torque 4.9 Nm Nominal torque onstall speed Assacredation 4.8 A Motor nominal current 4.8 A Motor constants 4.8 A Motor constants 4.9 Nm/A Standstill torque constant 4.1 Nm/A Notoge constant, phase-to-phase 4.1 A nm Nominal torque constant 4.1 Nm/A Notoge constant, phase-to-phase 4.2 1 Nm Noming inductance phase-phase 4.0 - Nm Noming induct	Certification	German Technical Control Board (TÜV)
To UK RoTS instructions for electrical equipment Certificate issuing authority IDV 968/INS 646,00/24 ULE 342973 Nominal operating voltage DC 565 V Type of winding switch Star inside Number of pole pairs 5 Stall torque 4,3 Nm Nominal torque 9,3 N Mm Peak torque 13.5 Nm Nominal rotary speed 3000 rpm Nominal rotary speed 3000 rpm Nominal rotary speed 5000 rpm Nominal rotary speed 5000 rpm Nominal rotary speed 6500 rpm Nominal power 1070 W Continuous stall current 4,8 A Motor nominal power 21.7 A Motor nominal querent 3,8 A Peak current 21.7 A Motor constants 50.8 Nm/A Standstill torque constant 1 Nm/A Voltage constant, phase-to-phase 61.4 mVmin Phase-phase winding resistance 2,2 10 Nm Winding inductance phase-phase 10.7 mH Winding longitudinal inductivity Ld (phase) 6,6 mH Cross inductivity Ld (phase) 8 mH Electric time constant 51 min Thermal time constant 51 min Thermal time constant 52 n N Self Switch Feminal selstance 0,65 K/W Reasuring flange 120 N Remissible axial shaft load 120 N Remissible radial shaft load 120 N Remissible said shaft load 120 N Remissible said shaft load 120 N Rotor position sensor for manufacturer designation EQ 1131 Rotor position sensor for manufacturer designation EQ 1131 Rotor position sensor rier ferace Rotor position sensor rier for positional values per revolution 8 AC V. 14 V Rotor position encoder for D coperating voltage 8 AV. 14 V Rotor position encoder for positional values per revolution 10 bit 1	CE marking (see declaration of conformity)	As per EU low voltage directive
UL 5242973 Nominal operating voltage DC Type of winding switch Star inside Number of pole pairs Stall torque A,3 Mm Nominal torque B,4 Mm Peak torque 13,5 Mm Nominal torque 13,5 Mm Nominal torary speed Max. rotational speed Analysis of the more	UKCA marking (see declaration of conformity)	To UK RoHS instructions
Type of winding switch Star inside Number of pole pairs 5 Stall torque 4.3 km Nominal torque 3.4 km Peak torque 13.5 Nm Nominal rotary speed 3000 rpm Mouth and Speed 6500 rpm Angular acceleration 100000 rad/s² Motor nominal power 1070 W Continuous stall current 4.8 A Motor nominal current 3.8 A Peak current 21.7 A Motor constants 0.9 km/A Standstill torque constant 1 km/A Voltage constant, phase-to-phase 61.4 mVmin Phase-phase winding resistance 2.21 Ohm Winding inductance phase-phase 10.7 mH Winding inductivity Lq (phase) 8 mH Electric time constant 7.2 ms Thermal time constant 5 min Thermal time constant 5 min <td>Certificate issuing authority</td> <td></td>	Certificate issuing authority	
Number of pole pairs Stall torque 4.3 Mm Nominal rotrque 3.4 Nm Nominal rotary speed 3000 rpm Max. rotational speed 6500 rpm Angular acceleration Motor nominal power 1070 W Continuous stall current 4.8 A Motor nominal current 4.8 A Motor constant Motor constants 0.9 Nm/A Standstill torque constant 1 Nm/A Motor constants 0.9 Nm/A Standstill torque constant 1 Nm/A Widing inductance phase-to-phase 10.7 mH Winding longitudinal inductivity Ld (phase) Coss inductivity Lq (phase) Belectric time constant 7.2 ms Thermal resistance 0.65 K/W Measuring flange 250 x 250 x 150 x mm, steel Total output inertia moment 2.43 kgcm² Product weight Product weight Product weight Product weight Permissible radial shaft load Rotor position sensor for manufacturer designation Rotor position sensor manufacturer designation Rotor position sensor interface Rotor position sensor interface Rotor position encoder for Do Operating voltage range Rotor position encoder for Positional values per revolution Rotor position encoder for Positional values per revolution Sea Rotor position encoder for Positional values per revolution Rotor position encoder for Positional values per revolution Rotor position encoder for Positional values per revol	Nominal operating voltage DC	565 V
Stall torque 4.3 Nm Nominal torque 3.4 Nm Nominal torary speed 3000 rpm Max. rotational speed 6500 rpm Angular acceleration 100000 rad/s² Motor nominal power 1070 W Continuous stall current 4.8 A Motor nominal current 3.8 A Peak current 21.7 A Motor constants 0.9 Nm/A Standstill torque constant 1 Nm/A Voltage constant, phase-to-phase endough resistance 2.21 Ohm Winding inductance phase-phase winding resistance 2.21 Ohm Winding longitudinal inductivity Id (phase) 6.6 mH Cross inductivity Lq (phase) 8 mH Electric time constant 7.2 ms Thermal time constant 51 min Thermal time constant 2.1 x ms Thermal time constant 2.2 x ms Thermal time constant 4.7 x ms Thermal time constant 7.2 ms Thermal time constant 5.1 min Thermal time constant 7.2 ms Thermal time constant 7.2 ms <	Type of winding switch	Star inside
Nominal torque 3.4 Nm Peak torque 13.5 Nm Nominal rotary speed 3000 rpm Max. rotational speed 6500 rpm Angular acceleration 100000 rad/s² Motor nominal power 1070 W Continuous stall current 4.8 A Motor nominal current 3.8 A Peak current 21.7 A Motor constants 0.9 Nm/A Standstill torque constant 1 Nm/A Voltage constant, phase-to-phase 61.4 mVmin Phase-phase winding resistance 2.21 Ohm Winding inductance phase-phase 10.7 mH Winding inductivity Ld (phase) 6.6 mH Cross inductivity Lq (phase) 8 mH Electric time constant 7.2 ms Thermal time constant 7.2 ms Thermal resistance 0.65 K/W Measuring flange 250 x 250 x 15 mm, steel Total output inertia moment 2.43 kgcm² Permissible radial shaft load 120 N Permissible radial shaft load 620 N Rotor position sensor for manufacturer designation <t< td=""><td>Number of pole pairs</td><td>5</td></t<>	Number of pole pairs	5
Peak torque 13.5 Nm Nominal rotary speed 3000 rpm Max. rotational speed 6500 rpm Angular acceleration 1000000 rad/s² Motor nominal power 1070 W Continuous stall current 4.8 A Motor nominal current 3.8 A Motor constant 21.7 A Motor constants 0.9 Nm/A Standstill torque constant 1 Nm/A Voltage constant, phase-to-phase 61.4 m/vnin Phase-phase winding resistance 2.21 0 hm Winding inductance phase-phase 10.7 mH Winding inductance phase-phase 10.7 mH Winding longitudinal inductivity Ld (phase) 6.6 mH Cross inductivity Lq (phase) 8 mH Electric time constant 51 min Thermal time constant 51 min Thermal resistance 0.65 K/W Measuring flange 250 x 250 x 15 mm, steel 7 total output inertia moment 2.43 kgcm² Product weight 4750 g Permissible axial shaft load 620 N Rotor position sensor for manufacturer designation EQ1 1131 Rotor position sensor for absolutely detectable revolutions 4096 Rotor position sensor for absolutely detectable revolutions 4096 Rotor position sensor measuring principle inductive Rotor position encoder for DC operating voltage 52428 Rotor position encoder for DC operating voltage 7 Nm Brake holding torque 7 Nm Brake DC operating voltage 7 Nm	Stall torque	4.3 Nm
Nominal rotary speed Max. rotational speed Max rotational speed Angular acceleration 100000 rad/s² Motor nominal power 1070 W Continuous stall current 4.8 A Motor nominal current 3.8 A Peak current 21.7 A Motor constants 0.9 Nm/A Standstill torque constant 1 Nm/A Voltage constant, phase-tu-phase 61.4 mVmin Phase-phase winding resistance 2.21 Ohm Winding inductance phase-phase 10.7 mH Winding inductance phase-phase 10.7 mH Winding tongitudinal inductivity Ld (phase) 8 mH Cross inductivity Lq (phase) 8 mH Electric time constant 51 min Thermal tresistance 0.65 K/W Measuring flange 250 x 250 x 15 mm, steel Total output inertia moment 2.43 kgcm² Product weight 4750 g Permissible axial shaft load 620 N Rotor position sensor for manufacturer designation Rotor position sensor interface Rotor position sensor interface Rotor position sensor interface Rotor position encoder for DC Operating voltage Rotor position encoder for DC Operating voltage Rotor position encoder for positional values per revolution 524 288 Rotor position encoder for positional values per revolution 524 288 Rotor position sensor resoultion Forker Doperating voltage 7 Nm Brake DGI operating voltage 7 Nm Brake DGI operating voltage 7 Nm	Nominal torque	3.4 Nm
Max. rotational speed 6500 rpm Angular acceleration 100000 rad/s² Motor nominal power 1070 W Continuous stall current 4.8 A Motor constants 3.8 A Peak current 21.7 A Motor constants 0.9 Nm/A Standstill torque constant 1 Nm/A Voltage constant, phase-to-phase 61.4 mVmin Phase-phase winding resistance 2.21 0 hm Winding longitudinal inductivity Ld (phase) 6.6 mH Cross inductivity Lq (phase) 8 mH Electric time constant 7.2 ms Thermal time constant 7.2 ms Thermal resistance 0.65 K/W Measuring flange 250 x 250 x 15 mm, steel Total output inertia moment 2.43 kgcm² Product weight 4750 g Permissible axial shaft load 120 N Permissible radial shaft load 620 N Rotor position sensor for manufacturer designation EQI 1131 Rotor position sensor measuring principle Inductive Rotor position sensor measuring principle Inductive <	Peak torque	13.5 Nm
Angular acceleration 100000 rad/s² Motor nominal power 1070 W Continuous stall current 4.8 A A Motor nominal current 21.7 A Motor constants 0.9 Nm/A Standsfill torque constant 1 Nm/A Voltage constant, phase-to-phase 61.4 mVmin Phase-phase winding resistance 2.21 Ohm Winding inductance phase-phase 10.7 mH Winding longitudinal inductivity Ld (phase) 6.6 mH Cross inductivity Lq (phase) 8 mH Electric time constant 51 min Thermal time constant 51 min Thermal time constant 51 min Thermal resistance 0.55 K/W Measuring flange 250 x 250 x 15 mm, steel 70 total output inertia moment 2.43 kgcm² Product weight 4750 g Permissible axial shaft load 620 N Rotor position sensor for manufacturer designation EQI 1131 Rotor position sensor for manufacturer designation EQI 1131 Rotor position sensor measuring principle Inductive Rotor position encoder for DC operating voltage 5V Rotor position encoder for DC operating voltage 7N mm Rotor position encoder for DC operating voltage ange 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 524288 Rotor position sensor resolution Parker DC operating voltage 7N mm Brake DCI operating voltage 7N mm	Nominal rotary speed	3000 rpm
Motor nominal power Continuous stall current 4.8 A Motor nominal current 3.8 A Peak current 21.7 A Motor constants 0.9 Nm/A Standstill torque constant 1 Nm/A Voltage constant, phase-to-phase 61.4 mVmin Phase-phase winding resistance 2.21 Ohm Winding inductance phase-phase Winding inductante phase-phase Winding inductativity Ld (phase) 6.6 mH Cross inductivity Lq (phase) 8 mH Electric time constant 7.2 ms Thermal time constant 51 min Thermal resistance 0.65 K/W Measuring flange 250 x 250 x 15 mm, steel Total output inertia moment 2.43 kgcm² Product weight 4750 g Permissible axial shaft load Rotor position sensor for manufacturer designation Rotor position sensor for manufacturer designation Rotor position sensor imerface Rotor position sensor imerface Rotor position sensor imerface Rotor position sensor imerface Rotor position sensor measuring principle Rotor position encoder for DC operating voltage range Rotor position encoder for DC operating voltage range Rotor position encoder for positional values per revolution Brake DG operating voltage 7 Nm Brake DC operating voltage 24 V	Max. rotational speed	6500 rpm
Continuous stall current As A Motor nominal current 3.8 A Peak current 21.7 A Motor constants 0.9 Nm/A Standstill torque constant 1 Nm/A Voltage constant, phase-to-phase 61.4 mVmin Phase-phase winding resistance 2.21 Ohm Winding inductance phase-phase Winding longitudinal inductivity Ld (phase) 6.6 mH Cross inductivity Lq (phase) 8 mH Electric time constant 7.2 ms Thermal time constant 51 min Thermal resistance 0.65 K/W Measuring flange 250 x 250 x 15 mm, steel Total output inertia moment 2.43 kgcm² Porduct weight 4750 g Permissible axial shaft load 8 cor position sensor for manufacturer designation Rotor position sensor for manufacturer designation Rotor position sensor for manufacturer designation Rotor position sensor for measuring principle Rotor position sensor for DC operating voltage Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage range Rotor position sensor for positional values per revolution Rotor position sensor for positional values per revolution Brake holding torque 7 Nm Brake DC operating voltage 24 V	Angular acceleration	100000 rad/s²
Motor nominal current 21.7 A Motor constants 0.9 Nm/A Standstill torque constant 1 Nm/A Voltage constant, phase-to-phase 61.4 mVmin Phase-phase winding resistance 2.21 Ohm Winding inductance phase-phase 10.7 mH Winding longitudinal inductivity Ld (phase) 6.6 mH Cross inductivity Lq (phase) 8 mH Electric time constant 7.2 ms Thermal time constant 51 min Thermal resistance 0.65 K/W Measuring flange 250 x 250 x 15 mm, steel Total output inertia moment 2.43 kgcm² Permissible axial shaft load 120 N Permissible axial shaft load 620 N Rotor position sensor for manufacturer designation Equity of the prosition sensor for manufacturer designation EQI 1131 Rotor position sensor for manufacturer designation EQI 1131 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 Scot position encoder for position values per revolution 524288 Rotor position encoder for position sensor resolution 19 bit Brake DC operating voltage 24 V	Motor nominal power	1070 W
Peak current 21.7 A Motor constants 0.9 Nm/A Standstill torque constant 1 Nm/A Voltage constant, phase-to-phase 61.4 m/min Phase-phase winding resistance 2.21 Ohm Winding inductance phase-phase 10.7 mH Winding inductance phase-phase 66.6 mH Cross inductivity Ld (phase) 66.6 mH Cross inductivity Lq (phase) 8 mH Electric time constant 7.2 ms Thermal time constant 51 min Thermal resistance 0.65 K/W Measuring flange 250 x 250 x 15 mm, steel 70.4 kg/m² Product weight 4750 g Permissible axial shaft load 120 N Permissible radial shaft load 620 N Rotor position sensor for manufacturer designation EQI 131 Rotor position sensor Interface EnDat© 22 Rotor position sensor interface EnDat© 22 Rotor position encoder for absolutely detectable revolutions 4096 Rotor position encoder for DC operating voltage range 3.6 V14 V Rotor position encoder for DC operating voltage range 7 N m Brake holding torque 7 N m Brake DC operating voltage 24 V	Continuous stall current	4.8 A
Motor constants 0.9 Nm/A Standstill torque constant 1 Nm/A Voltage constant, phase-to-phase 61.4 mVmin Phase-phase winding resistance 2.21 Ohm Winding inductance phase-phase Winding longitudinal inductivity Ld (phase) Cross inductivity Ld (phase) 8 mH Electric time constant 7.2 ms Thermal time constant 7.2 ms Thermal resistance 0.65 K/W Measuring flange 250 x 250 x 15 mm, steel Total output inertia moment 2.43 kgcm² Product weight 4750 g Permissible axial shaft load 120 N Permissible axial shaft load 620 N Rotor position sensor 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 sensor measuring principle Rotor position sensor measuring principle Rotor position encoder for DC operating voltage range Rotor position encoder for C Operating voltage range Rotor position encoder for C operating voltage range Rotor position encoder for positional values per revolution Problem of the problem of the position sensor resolution Rotor position encoder for positional values per revolution S24288 Rotor position sensor resolution Problem of the position sensor resolution Problem of the problem of the position sensor resolution Problem of the problem of the position sensor resolution Problem of the position encoder for positional values per revolution Problem of the problem of the position sensor resolution Problem of the problem of the position sensor resolution Problem of the problem of the position sensor resolution Problem of the problem of the position sensor resolution Problem of the position sensor resolution Problem of the problem of the position sensor resolution Problem of the prob	Motor nominal current	3.8 A
Standstill torque constant Voltage constant, phase-to-phase 61.4 mVmin Phase-phase winding resistance 2.21 0 hm Winding inductance phase-phase Winding longitudinal inductivity Ld (phase) 6.6 mH Cross inductivity Lq (phase) 8 mH Electric time constant 7.2 ms Thermal time constant 15 min Thermal resistance 0.65 K/W Measuring flange 250 x 250 x 15 mm, steel Total output inertia moment 2.43 kgcm² Product weight 4750 g Permissible axial shaft load Permissible radial shaft load 620 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 Coperating voltage range Rotor position encoder for positional values per revolution Rotor position encoder for positional values per revolution Rotor position sensor resolution Rotor position encoder for sesolution Rotor position encoder for positional values per revolution Rotor position encoder for positional values per revolution Rotor position sensor resolution Rotor position encoder for positional values per revolution Rotor position encoder for positional values per revolution Rotor position sensor resolution	Peak current	21.7 A
Voltage constant, phase-to-phase Phase-phase winding resistance 2.21 0 hm Winding inductance phase-phase 10.7 mH Winding longitudinal inductivity Ld (phase) 6.6 mH Cross inductivity Lq (phase) 8 mH Electric time constant 7.2 ms Thermal time constant 51 min Thermal resistance 0.65 K/W Measuring flange 250 x 250 x 15 mm, steel Total output inertia moment 2.43 kgcm² Product weight 4750 g Permissible axial shaft load 120 N Permissible radial shaft load 8 con N Rotor position sensor for manufacturer designation Rotor position sensor interface Rotor position sensor interface Rotor position sensor interface Rotor position sensor interface Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage range Rotor position encoder for positional values per revolution Packe DC operating voltage Packe DC operating voltage Problem CC operating voltage Position Sensor resolution	Motor constants	0.9 Nm/A
Phase-phase winding resistance Winding inductance phase-phase 10.7 mH Winding longitudinal inductivity Ld (phase) 6.6 mH Cross inductivity Lq (phase) 8 mH Electric time constant 7.2 ms Thermal time constant 51 min Thermal resistance 0.65 K/W Measuring flange 250 x 250 x 15 mm, steel Total output inertia moment 2.43 kgcm² Product weight 4750 g Permissible axial shaft load Rotor position sensor for manufacturer designation Rotor position sensor interface Rotor position sensor interface 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 Rotor position sensor resolution Rotor position sensor resolution Rotor position sensor resolution Rotor position sensor measuring principle Rotor position encoder for DC operating voltage range Rotor position encoder for DC operating voltage range Rotor position encoder for positional values per revolution Rotor position encoder for po	Standstill torque constant	1 Nm/A
Phase-phase winding resistance Winding inductance phase-phase 10.7 mH Winding longitudinal inductivity Ld (phase) 6.6 mH Cross inductivity Lq (phase) 8 mH Electric time constant 7.2 ms Thermal time constant 51 min Thermal resistance 0.65 K/W Measuring flange 250 x 250 x 15 mm, steel Total output inertia moment 2.43 kgcm² Product weight 4750 g Permissible axial shaft load Rotor position sensor for manufacturer designation Rotor position sensor interface Rotor position sensor interface 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 Rotor position sensor resolution Rotor position sensor resolution Rotor position sensor resolution Rotor position sensor measuring principle Rotor position encoder for DC operating voltage range Rotor position encoder for DC operating voltage range Rotor position encoder for positional values per revolution Rotor position encoder for po	Voltage constant, phase-to-phase	61.4 mVmin
Winding longitudinal inductivity Ld (phase) 6.6 mH Cross inductivity Lq (phase) 8 mH Electric time constant 7.2 ms Thermal time constant 51 min Thermal resistance 0.65 K/W Measuring flange 250 x 250 x 15 mm, steel Total output inertia moment 2.43 kgcm² Product weight 4750 g Permissible axial shaft load 120 N Permissible radial shaft load 620 N Rotor position sensor Safety encoder, absolute multi-turn Rotor position encoder for absolutely detectable revolutions Rotor position sensor interface Rotor position encoder for DC operating voltage SV Rotor position encoder for DC operating voltage ange 3.6 V14 V Rotor position sensor resolution 19 bit Brake holding torque 7 Nm Brake DC operating voltage	Phase-phase winding resistance	2.21 Ohm
Cross inductivity Lq (phase) Electric time constant 7.2 ms Thermal time constant 51 min Thermal resistance 0.65 K/W Measuring flange 250 x 250 x 15 mm, steel Total output inertia moment 2.43 kgcm² Product weight 4750 g Permissible axial shaft load 120 N Permissible radial shaft load 620 N Rotor position sensor Safety encoder, absolute multi-turn Rotor position sensor for manufacturer designation EQI 1131 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 Position sensor resolution 19 bit Brake holding torque 7 Nm Priminal time constant 7.2 ms 8 mH 7.2 ms 8 mH 8 mB 8 mH 8 min 9 10	Winding inductance phase-phase	10.7 mH
Electric time constant Thermal time constant Thermal resistance O.65 K/W Measuring flange 250 x 250 x 15 mm, steel Total output inertia moment 2.43 kgcm² Product weight 4750 g Permissible axial shaft load Permissible radial shaft load Rotor position sensor Safety encoder, absolute multi-turn Rotor position sensor for manufacturer designation EQI 1131 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 arange Rotor position encoder for positional values per revolution Solven position sensor resolution Position sensor resolution Position sensor resolution Position sensor resolution Position encoder for DC operating voltage Position encoder for DC operating voltage Position sensor resolution Position encoder for DC operating voltage arange Position sensor resolution	Winding longitudinal inductivity Ld (phase)	6.6 mH
Thermal time constant Thermal resistance 0.65 K/W Measuring flange 250 x 250 x 15 mm, steel Total output inertia moment 2.43 kgcm² Product weight 4750 g Permissible axial shaft load 120 N Permissible radial shaft load 620 N Rotor position sensor Rotor position sensor for manufacturer designation EQI 1131 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 Rotor position encoder for positional values per revolution Source Prosition sensor resolution 19 bit Brake holding torque 7 Nm Brake DC operating voltage 24 V	Cross inductivity Lq (phase)	8 mH
Thermal resistance 0.65 K/W Measuring flange 250 x 250 x 15 mm, steel Total output inertia moment 2.43 kgcm² Product weight 4750 g Permissible axial shaft load 120 N Permissible radial shaft load 620 N Rotor position sensor Rotor position sensor for manufacturer designation EQI 1131 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 Brake holding torque 7 Nm Brake DC operating voltage 24 V	Electric time constant	7.2 ms
Measuring flange 250 x 250 x 15 mm, steel 243 kgcm² Product weight 4750 g Permissible axial shaft load 120 N Permissible radial shaft load 8020 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 ange Rotor position encoder for DC operating voltage range Rotor position sensor resolution 8000 N 80	Thermal time constant	51 min
Total output inertia moment Product weight Product weight 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 DC operating voltage range Rotor position sensor resolution Rotor position sensor resolution Rotor position encoder for DC operating voltage range Rotor position encoder for DC operating voltage range Rotor position sensor resolution Rotor position sens	Thermal resistance	0.65 K/W
Product weight 4750 g Permissible axial shaft load 120 N Permissible radial shaft load 620 N Rotor position sensor Safety encoder, absolute multi-turn Rotor position sensor for manufacturer designation EQI 1131 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 ange 3.6 V14 V Rotor position encoder for positional values per revolution 524288 Rotor position sensor resolution 19 bit Brake holding torque 7 Nm Brake DC operating voltage 24 V	Measuring flange	250 x 250 x 15 mm, steel
Permissible axial shaft load Permissible radial shaft load Rotor position sensor Safety encoder, absolute multi-turn Rotor position sensor for manufacturer designation EQI 1131 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 Rotor position encoder for DC operating voltage range 3.6 V14 V Rotor position encoder for positional values per revolution 19 bit Brake holding torque 7 Nm Brake DC operating voltage 24 V	Total output inertia moment	2.43 kgcm ²
Permissible radial shaft load Rotor position sensor Safety encoder, absolute multi-turn Rotor position sensor for manufacturer designation EQI 1131 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 ange Rotor position encoder for DC operating voltage range Rotor position encoder for positional values per revolution 524288 Rotor position sensor resolution 19 bit Brake holding torque 7 Nm Brake DC operating voltage 24 V	Product weight	4750 g
Rotor position sensor Rotor position sensor for manufacturer designation EQI 1131 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 S24288 Rotor position sensor resolution 19 bit Brake holding torque 7 Nm Brake DC operating voltage 24 V	Permissible axial shaft load	120 N
Rotor position sensor for manufacturer designation EQI 1131 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 Brake holding torque 7 Nm Brake DC operating voltage 24 V	Permissible radial shaft load	
Rotor position sensor for manufacturer designation EQI 1131 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 Brake holding torque 7 Nm Brake DC operating voltage 24 V	Rotor position sensor	Safety encoder, absolute multi-turn
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 Rotor position encoder for DC operating voltage range Rotor position encoder for positional values per revolution S24288 Rotor position sensor resolution 19 bit Brake holding torque 7 Nm Brake DC operating voltage 24 V		EQI 1131
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 Brake holding torque 7 Nm Brake DC operating voltage 24 V		
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 Brake holding torque 7 Nm Brake DC operating voltage 24 V	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 Brake holding torque 7 Nm Brake DC operating voltage 24 V	Rotor position sensor measuring principle	Inductive
Rotor position encoder for positional values per revolution 524288 Rotor position sensor resolution 19 bit Brake holding torque 7 Nm Brake DC operating voltage 24 V	Rotor position encoder for DC operating voltage	5 V
Rotor position encoder for positional values per revolution 524288 Rotor position sensor resolution 19 bit Brake holding torque 7 Nm Brake DC operating voltage 24 V	Rotor position encoder for DC operating voltage range	3.6 V14 V
Brake holding torque 7 Nm Brake DC operating voltage 24 V	Rotor position encoder for positional values per revolution	524288
Brake DC operating voltage 24 V	Rotor position sensor resolution	19 bit
	Brake holding torque	7 Nm
Brake power consumption 15 W	Brake DC operating voltage	24 V
	Brake power consumption	15 W

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
Brake mass moment of inertia	0.459 kgcm²
Switching cycles, holding brake	10 million idle actuations (without friction work!)
PFHd, subcomponent	15 x 10E-9, encoder
Duration of use Tm, subcomponent	20 years, rotor position sensor
Energy efficiency	ENEFF (CN) / Class 2