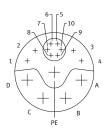
Servo motor EMMT-AS-60-M-HS-RMY Part number: 8160636





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 |
| Note on max. installation height | As of 1,000 m: only with derating of -1.0% per 100 m |
| Storage temperature | -20 °C70 °C |
| Relative air humidity | 0 - 90% |
| Conforms to standard | IEC 60034 |
| Temperature class as per EN 60034-1 | F |
| Max. winding temperature | 155 ℃ |
| Rating class as per EN 60034-1 | S1 |
| Temperature monitoring | Digital motor temperature transmission via EnDat® 2.2 |
| Motor type to EN 60034-7 | IM B5 IM V1 IM V3 |
| Mounting position | optional |
| 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 including connection components |
| Concentricity, coaxiality, axial runout to DIN SPEC 42955 | N |
| Balance quality | G 2.5 |
| Detent torque | <1,0% vom Spitzendrehmoment |
| Bearing lifetime under nominal conditions | 20000 h |
| Interface code, motor out | 60P |
| Electrical connection 1, connection type | Hybrid plug |
| Electrical connection 1, connector system | M23x1 |
| Electrical connection 1, number of connections/cores | 15 |
| Pollution degree | 2 |
| Note on materials | RoHS-compliant |
| Corrosion resistance class CRC | 0 - No corrosion stress |



| 60662-5 Shock residuation Shock test with seerify level 2 to FN 942017-5 and EN 60068-2:2 Approval RCM trademark. Genomical control Board (TUV) CUI as Accordance and the Control Board (TUV) CE mark (see declaration of conformity) To EU ENC Directive in accordance with EU RortS Directive CE mark (see declaration of conformity) To EU ENC Directive in accordance with EU RortS Directive Cettificate issuing authority TO Wit regulations for ENC To UK regulations for ENC To Pup of winding see DC 660 V Type of winding sewich Sar Inside Number of pole pairs S Standstill torque 1.4 Mm Nominal orque 1.1 Mm Peak corge 3.4 Mm Nominal speed 1.200 rpm Max. rotational speed 1.6000 rpm Max. rotational speed 1.6000 rpm Mominal inductive corrent 2.4 A Peak current 1.4 Mominal inductive constant 0.53 Nm/A Mominal inductive to the phase 320 Vmin Phase-phase winding resistance 2.7 A Nominal opover rating of motor <th>Feature</th> <th>Value</th> | Feature | Value |
|---|--|--|
| 60068-7-6 Shock test vitils verify level 2 to IN 94 2017-5 and EN 60068-7-2 Approval Shock test vitils verify level 2 to IN 94 2017-5 and EN 60068-7-2 Approval CM trademark German Panning Control Board (TOV) (c1) use Recognized (OL) CE mark (see declaration of conformity) To EU EXC Directive in accordance with EU RortS Directive in accordance with EU RortS Directive in accordance with EU RortS Directive CE marking (see declaration of conformity) To UK regulations for FOMC To UK regulations for FOMC Certificat issuing authority UU sequitations for FOMC To UK regulations for FOMC Nominal torque 5 Nominal torque 1.1 Nm Paek Vinceurg 3.4 Nm Nominal torque 1.0 Nm Paek Corque 3.000 rpm Max. rotational speed 16000 rpm Max. rotational speed 100000 rad/6 ³ Moninal torque corstant 0.63 Nm/A Moninal more constant 0.53 Nm/A Moninal more constant 0.53 Nm/A Max. rotational gened 1.0 A Max. rotational gened 3.0 W Continuous stall current 2.4 A Peakcoursent 0.53 Nm/A <td>LABS (PWIS) conformity</td> <td>VDMA24364 zone III</td> | LABS (PWIS) conformity | VDMA24364 zone III |
| Approval RM trademark control control band (TUV) cll us- Recognized (OL) CE mark (see declaration of conformity) To EU EMC Directive in accordance with EU RoHS Directive in ac | Vibration resistance | Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6 |
| German Technical Control Board (TUV) CE mark (see declaration of conformity) To EU LusRecognited (D.) CE mark (see declaration of conformity) To UL Control CE mark (see declaration of conformity) To UK instructions for EVM To UK resultations for electrical equipment Certificate issuing authority TUV See/INS 464.00/24 UK regulations for electrical equipment Certificate issuing authority TUV See/INS 464.00/24 Nominal operating voltage DC 680 V Yape of winding switch Star inside Number of pole pairs 5 Standstill torque 1.24 Nm Nominal torque 1.1 Nm Peak torque 3.4 Nm Nominal rotary speed 100000 rpm Max, mechanical speed 16000 rpm Max, mechanical speed 16000 rpm Angular acceleration 0.53 Nm/A Nominal power rating of motor 0.45 Nm/A Contractus attal speed 2.7 A Nominal motor current 2.4 A Peak torque 3.6 Nm Phase-to-sphase winding inductance 2 or MH Winding constant < | Shock resistance | Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27 |
| To EU Low Voltage Directive CE marking (see declaration of conformity) To UK Instructions for FMC To UK Reptilations for electrical equipment To UK regulations for electrical equipment Certificate issuing authority TOV 968/INS 464.00/24 UE 394373 UE 394373 Nominal operating voltage DC 660 V Type of vinding switch Star inside Number of pole pairs 5 Standstill torque 1.4 Mm Nominal torque 1.4 Mm Peak torque 3.4 Nm Nominal speed 16000 rpm Anz, rotational speed 16000 rpm Max, rotational speed 16000 rpm Anguiar acceleration 100000 rad/s ² Nominal tower rating of motor 356 W Continuous stall current 2.7 A Nominal motor current 2.4 A Peak current 11 A Motor constant 0.45 Nm/A Voltage constant, phase-to-phase 32 mVinin Phase-phase winding inductunce 20 mH Winding longitudinal inductivity LG (phase) 8 mH Winding longr | Approval | German Technical Control Board (TÜV) |
| To UK RoHS instructions To UK regulations for electrical equipment Certificate issuing authority TUV 968/INS 464.00/24 UL E343973 Nominal operating voltage DC 680 V Type of winding switch Star inside Numier of pole pairs 5 Standstill corque 1.24 Nm Nominal torque 1.4 Nm Nominal torque 3.4 Nm Nominal torque 1.4 Nm Peak torque 3.4 Nm Nominal torque speed 16000 rpm Max. motational speed 16000 rpm Max. contational speed 100000 rap/s ³ Nominal power rating of motor 350 W Continuous stall current 2.7 A Nominal motor current 2.4 A Peak current 11 A Motor constant 0.45 Nm/A Voltage constant, Phase-phase winding resistance 4.85 Ohm Phase-phase winding resistance 2.7 ms Phase-phase winding inductivity Lq (phase) 10 mH Electric time constant 0.45 Nm/A Voltage constant, Phase-to-phase winding resistance 2.7 ms Phase-phas | CE mark (see declaration of conformity) | To EU Low Voltage Directive |
| InternationalUL E34 297 3Nominal operating workige DC680 VType of winding switchStar insideNumber of pole pairs5Standstill torque1.24 NmNominal torque3.4 NmNominal rotary speed3000 rpmMax. rotational speed14200 rpmMax. mcchanical speed100000 rad/s²Max. mcchanical speed27 ANominal power rating of motor350 WContinuous stall current2.7 ANominal power rating of motor350 WContinuous stall current2.4 APeak current11 AMotor constant0.45 Nm/AVoltage constant0.53 Nm/AVoltage constant, phase-to-phase32 mVminPhase-phase winding inductance20 mHWinding inductance20 mHWinding constant2.50 x 250 x 15 nm, steelVoltage constant2.50 x 250 x 15 nm, steelTotal mass moment of inertia of output2.50 x 250 x 15 nm, steelTotal mass moment of inertia of output2.68 kgrm²Perdiscuring fingne250 x 250 x 15 nm, steelTotal mass moment of inertia of output2.68 kgrm²Perdiscuring fingne20 kgrm²Total mass moment of inertia of output2.68 kgrm²Perdiscuring sensor, manufacturer designationEQI 1131rotor position sensor, manufacturer designationEQI 1131rotor position sensor, DC operating voltage range3.6 V14 Vrotor position sensor, DC operating voltage range5.0 V14 Vrotor position s | CE marking (see declaration of conformity) | To UK RoHS instructions |
| Type of winding switchStar insideNumber of pole pairs5Standstill torque1.24 NmNominal torque1.1 NnPeak torque3.4 NmNominal torque speed3000 rpmMax. rotational speed16000 rpmMax. rotational speed16000 rpmMax. rotational speed100000 rad/s²Nominal torary speed2.7 ANominal power rating of motor350 WConfinuous stall current2.7 ANominal motor current2.4 APeak current11.4Motor constant0.45 Nm/AStandstill cruge constant0.53 Nm/AVoltage constant, phase-to-phase32 m/minPhase-phase winding riskstance4.85 OhmPhase-phase winding riskstance2.0 mHWinding longitudinal inductivity Ld (phase)10 mHElectric time constant2.7 msThermal time constant2.50 x 250 x 15 mm, steelTotal mass moment of inertia of output0.268 kgcm ² Permissible axial shaft load70 NPermissible axial shaft load350 NRotor position sensor, manufacturer designationEQI 1131rotor position sensor, absolute detectable revolution4.924Rotor position sensor, DC operating voltage range5.4Rotor position sensor, DC operating voltage range5.4Rotor position sensor, DC operating voltage5.4Rotor position sensor, DC operating voltage range3.6 V14 Vrotor position sensor, DC operating voltage5.4Rotor position senso | Certificate issuing authority | |
| Number of pole pairs5Standstill torque1.24 NmNominal torque1.1 NmPeak torque3.4 NmNominal rotary speed3000 rpmMax. rotational speed14200 rpmMax. mechanical speed16000 rpmAngular acceleration100000 rad/s²Nominal power rating of motor350 WContinuous stall current2.7 ANominal motor current2.4 APeak current11 AMotor constant0.45 Nm/AVoltage constant, phase-to-phase32 m/minPhase-phase winding resistance4.85 OhmPhase-phase winding resistance2.0 mHWinding forgitudinal inductance20 mHWinding cross inductivity L4 (phase)8 mHUnding resistance1.1 K/WMeasuring flange250 x 250 x 15 mm, steelTotal mass moment of inertia of output0.268 kgcm²Product weight1530 gPermissible axial shaft load350 NRotar position sensor, manufacturer designationEQU 1311rotor position sensor, manufacturer designationEQU 1311rotor position sensor, DC operating voltage range3.6 V14 Vrotor position sensor, DC operating voltage range3.6 V14 Vrotor position sensor, DC operating voltage range3.6 V14 Vrotor position rensor, DC operating voltage range3.6 V14 Vrotor position sensor, DC operating voltage range3.6 V14 Vrotor position rensor, DC operating voltage range3.6 V14 Vrotor position sensor, DC oper | Nominal operating voltage DC | 680 V |
| Standstill torque 1.24 Nm Nominal torque 1.1 Nm Peak torque 3.4 Nm Nominal torary speed 3000 rpm Max. rotational speed 16000 rpm Angular acceleration 100000 rad/s² Nominal notor current 2.7 A Nominal motor current 2.4 A Peak current 11 A Motor constant 0.45 Nm/A Standstill torque constant 0.53 Nm/A Voltage constant, phase-to-phase 32 mVmin Phase-phase winding resistance 4.85 Ohm Phase-phase winding inductance 20 mH Winding cross inductivity Ld (phase) 10 mH Electric time constant 2.7 ms Thermal tresistance 1.1 K/W Measuring flange 250 × 250 × 15 mm, steel Total mass moment of inertia of output 0.268 kgcm² Product weight 1530 g Permissible axial shaft load 70 N Permissible axial shaft load 350 N Rotor position sensor, manufacturer designation EQI 1131 rotor position sensor, pacture designation EQI 1131 rotor position sensor, pDC | Type of winding switch | Star inside |
| Nominal torque1.1 NmPeak torque3.4 NmNominal rotary speed3000 rpmMax. rotational speed14200 rpmMax. mechanical speed16000 rpmAngular acceleration100000 rad/s²Nominal power rating of motor350 WContinuous stall current2.7 ANominal motor current2.4 APeak current11 AMotor constant0.45 Nm/AStandstill torque constant0.53 Nm/AVoltage constant, phase-to-phase32 m/minPhase-phase winding resistance4.85 0hmPhase-phase winding inductance20 mHWinding cosis inductivity Lq (phase)10 mHElectric time constant2.7 msThermal time constant1.1 K/WMeasuring flange250 x 250 x 15 mm, steelTotal mass moment of inertia of output0.286 kgcm²Permissible axial shaft load350 NRotor position sensorAbsolute multi-turn safety encoderrotor position sensor, encoder measuring principleInductiverotor position sensor, encoder measuring principleInductiverotor position sensor, encoder measuring principleInductiverotor position sensor, oncoder measuring principleInductiverotor position sensor, DC operating voltage range3.6 V14 Vrotor position sensor, DC operating voltage range3.6 V14 Vrotor position sensor, DC operating voltage range3.6 V14 V | Number of pole pairs | 5 |
| Peak torque3.4 NmNominal rotary speed3000 rpmMax. rotational speed14200 rpmMax. mechanical speed16000 rpmAngular acceleration100000 rad/s²Nominal power rating of motor350 WContinuous stall current2.7 ANominal motor current2.4 APeak current11 AMotor constant0.45 Nm/AStandstill torque constant0.53 Nm/AVoltage constant, phase-to-phase32 m/minPhase-phase winding institutance20 mHWinding longitudinal inductivity Ld (phase)8 mHWinding cross inductivity Ld (phase)8 mHWinding cross inductivity Ld (phase)10 mHElectric time constant1.1 K/WMeasuring flange250 x 250 x 15 mm, steelTotal mass moment of inertia of output0.268 kgcm²Product weight1530 gPermissible axial shaft load70 NPermissible axial shaft load350 NRotor position sensor, moufacturer designationEQDat(92 Current)Absolute multi-turn safety encodercode Gate Current)Cotor position sensor, encoder measuring principleInductiverotor position sensor, boolutage range3.6 V14 Vrotor position sensor, DC operating voltage range3.6 V14 Vrotor position rensor, bulke prevolution524288Rotor position transducer resolution19 bit | Standstill torque | 1.24 Nm |
| Nominal rotary speed3000 rpmMax. rotational speed14200 rpmMax. mechanical speed16000 raf/s2Angular acceleration100000 raf/s2Nominal power rating of motor350 WContinuous stall current2.7 ANominal motor current2.4 APeak current11 AMotor constant0.45 Nm/AStandstill torque constant0.53 Nm/AVoltage constant, phase-to-phase32 m/minPhase-phase winding resistance4.85 OhmPhase-phase winding resistance20 mHWinding longitudinal inductivity Ld (phase)8 mHWinding longitudinal inductivity Ld (phase)8 mHWinding cross inductivity Ld (phase)10 mHElectric time constant1.1 K/WMeasuring flange250 x 250 x 15 mm, steelTotal mass moment of inertia of output0.286 kgcm²Product weight1530 gPermissible axial shaft load350 NRotor position sensorAbsolute multi-turn safety encoderrotor position sensor, absolute detectable revolutions4096Rotor position sensor, absolute detectable revolutions4096Rotor position sensor, bc Operating yorkage arage5 Vrotor position sensor, DC operating yorkage arage5 Vrotor position sensor, DC operating yorkage arage5 Vrotor position sensor, DC operating yorkage range3.6 V14 Vrotor position sensor, DC operating yorkage range5.42288Rotor position transducer resolution19 bit | Nominal torque | 1.1 Nm |
| Max. rotational speed14200 rpmMax. mechanical speed16000 rpmAngular acceleration100000 rad/s²Nominal power rating of motor350 WContinuous stall current2.7 ANominal motor current2.4 APeak current11 AMotor constant0.45 Nm/AStandstill torque constant0.53 Nm/AVoltage constant, phase-to-phase32 m/minPhase-phase winding resistance4.85 OhmPhase-phase winding inductance20 mHWinding cross inductivity Lq (phase)8 mHWinding cross inductivity Lq (phase)10 mHElectric time constant2.7 msThermal time constant2.7 msThermal time constant1.1 K/WMeasuring flange250 x 250 x 15 mm, steelTotal mass moment of inertia of output0.286 kgcm?Product weight1530 gPermissible radial shaft load350 NRotor position sensorAbsolute multi-turn safety encoderrotor position sensor, manufacturer designationEQI 1131rotor position sensor, cocder measuring principleInductiverotor position sensor, Coperating voltage range5.Vrotor position sensor, DC operating voltage range5.Vrotor position sensor, DC operating voltage range5.24288Rotor position sensor, DC operating voltage range3.6 V14 Vrotor position sensor, Cotor position sensor, position values per revolution524288Rotor position sensor, DC operating voltage range3.6 V14 Vrotor position | Peak torque | 3.4 Nm |
| Max. mechanical speed16000 rpmAngular acceleration100000 rad/s²Nominal power rating of motor350 WContinuous stall current2.7 ANominal motor current2.4 APeak current11 AMotor constant0.45 Nm/AStandstill torque constant0.45 Nm/AVoltage constant, phase-to-phase32 mVminPhase-phase winding resistance4.85 OhmPhase-phase winding resistance20 mHWinding torg torg torg torg torg torg torg tor | Nominal rotary speed | 3000 rpm |
| Angular acceleration100000 rad/s²Nominal power rating of motor350 WContinuous stall current2.7 ANominal motor current2.4 APeak current11 AMotor constant0.45 Nm/AStandstill torque constant0.53 Nm/AVoltage constant, phase-to-phase32 m/minPhase-phase winding resistance4.85 OhmPhase-phase winding resistance20 mHWinding cores inductivity Ld (phase)8 mHWinding cores inductivity Ld (phase)10 mHElectric time constant2.7 msThermal time constant1.1 K/WMeasuring flange250 x 250 x 15 mm, steelTotal mass moment of inertia of output0.286 kgrm²Product weight1530 gPermissible axial shaft load70 NPermissible radial shaft load350 NRotor position sensor, encoder measuring principleInductivecotor position sensor, encoder measuring principleInductivetotor position sensor, encoder measuring principleInductiverotor position sensor, encoder measuring principleInductiverotor position sensor, position sensor, position sensor, position sensor, encoder measuring principleInductiverotor position sensor, DC operating voltage range5 Vrotor position sensor, DC operating voltage range5 Vrotor position sensor, DC operating voltage range5 K v14 Vrotor position rensolitor values per revolution524288Rotor position ransducer resolution19 bit | Max. rotational speed | 14200 rpm |
| Nominal power rating of motor350 WContinuous stall current2.7 ANominal motor current2.4 APeak current11 AMotor constant0.45 Nm/AStandstill torque constant0.53 Nm/AVoltage constant, phase-to-phase32 m/minPhase-phase winding resistance4.85 OhmPhase-phase winding resistance20 mHWinding longtudinal inductivity Ld (phase)8 mHWinding cross inductivity Ld (phase)10 mHElectric time constant2.7 msThermal time constant11 K/WMeasuring flange250 x 250 x 15 mm, steelTotal mass moment of inertia of output0.286 kgcm²Premissible axial shaft load70 NPermissible axial shaft load350 NRotor position sensorAbsolute multi-turn safety encoderrotor position sensor, encoder mediagnationEQI 1131rotor position sensor, encoder mediagnationEQI 1131rotor position sensor, encoder measuring principleInductiverotor position sensor, DC operating voltage range5 Vrotor position sensor, DC operating voltage range5 Vr | Max. mechanical speed | 16000 rpm |
| Nominal power rating of motor350 WContinuous stall current2.7 ANominal motor current2.4 APeak current11 AMotor constant0.45 Nm/AStandstill torque constant0.53 Nm/AVoltage constant, phase-to-phase32 m/minPhase-phase winding resistance4.85 OhmPhase-phase winding resistance20 mHWinding longtudinal inductivity Ld (phase)8 mHWinding cross inductivity Ld (phase)10 mHElectric time constant2.7 msThermal time constant11 K/WMeasuring flange250 x 250 x 15 mm, steelTotal mass moment of inertia of output0.286 kgcm²Premissible axial shaft load70 NPermissible axial shaft load350 NRotor position sensorAbsolute multi-turn safety encoderrotor position sensor, encoder mediagnationEQI 1131rotor position sensor, encoder mediagnationEQI 1131rotor position sensor, encoder measuring principleInductiverotor position sensor, DC operating voltage range5 Vrotor position sensor, DC operating voltage range5 Vr | Angular acceleration | 10000 rad/s ² |
| Continuous stall current2.7 ANominal motor current2.4 APeak current11 AMotor constant0.45 Nm/AStandstill torque constant0.53 Nm/AVoltage constant, phase-to-phase32 m/minPhase-phase winding resistance4.85 OhmPhase-phase winding inductance20 mHWinding longitudinal inductivity Ld (phase)8 mHWinding constant (time constant)2.7 msWinding cross inductivity Ld (phase)10 mHElectric time constant2.7 msThermal time constant1.1 K/WMeasuring flange250 x 250 x 15 mm, steelTotal mass moment of inertia of output0.286 kgcm²Product weight1530 gPermissible radial shaft load70 NPermissible radial shaft load350 NRotor position sensor, manufacturer designationEQI 1131rotor position sensor, encoder measuring principleInductiverotor position sensor, no process may be revolutions4096Rotor position sensor, DC operating voltage range5 Vrotor position sensor, DC operating principleInductiverotor position sensor, DC operating voltage range5 Vrotor position sensor, DC operating principleInductiverotor position sensor, DC operating voltage range5 Vrotor position sensor, DC operating voltage range <td< td=""><td></td><td></td></td<> | | |
| Peak current11 AMotor constant0.45 Nm/AStandstill torque constant0.53 Nm/AVoltage constant, phase-to-phase32 mVminPhase-phase winding resistance4.85 OhmPhase-phase winding inductance20 mHWinding longitudinal inductivity Ld (phase)8 mHWinding cross inductivity Ld (phase)10 mHElectric time constant2.7 msThermal time constant41 minThermal resistance1.1 K/WMeasuring flange250 x 250 x 15 mm, steelTotal mass moment of inertia of output0.286 kgcm²Product weight1530 gPermissible axial shaft load350 NRotor position sensor, manufacturer designationEQI 1131rotor position sensor, absolute detectable revolutions4096Rotor position sensor, encoder measuring principleInductiverotor position sensor, not principleInductiverotor position sensor, DC operating voltage5 Vrotor position sensor, DC operating voltage range3.6 V14 Vrotor position sensor, position values per revolution524288Rotor position sensor, position values per revolution19 bit | | 2.7 A |
| Peak current11 AMotor constant0.45 Nm/AStandstill torque constant0.53 Nm/AVoltage constant, phase-to-phase32 mVminPhase-phase winding resistance4.85 OhmPhase-phase winding inductance20 mHWinding longitudinal inductivity Ld (phase)8 mHWinding cross inductivity Ld (phase)10 mHElectric time constant2.7 msThermal time constant41 minThermal resistance1.1 K/WMeasuring flange250 x 250 x 15 mm, steelTotal mass moment of inertia of output0.286 kgcm²Product weight1530 gPermissible axial shaft load350 NRotor position sensor, manufacturer designationEQI 1131rotor position sensor, absolute detectable revolutions4096Rotor position sensor, encoder measuring principleInductiverotor position sensor, not principleInductiverotor position sensor, DC operating voltage5 Vrotor position sensor, DC operating voltage range3.6 V14 Vrotor position sensor, position values per revolution524288Rotor position sensor, position values per revolution19 bit | Nominal motor current | 2.4 A |
| Standstill torque constant0.53 Nm/AVoltage constant, phase-to-phase32 mVminPhase-phase winding resistance4.85 0hmPhase-phase winding inductance20 mHWinding longitudinal inductivity Ld (phase)8 mHWinding cross inductivity Lq (phase)10 mHElectric time constant2.7 msThermal time constant41 minThermal resistance1.1 K/WMeasuring flange250 x 250 x 15 mm, steelTotal mass moment of inertia of output0.286 kgcm²Product weight1530 gPermissible axial shaft load70 NPermissible radial shaft load350 NRotor position sensorAbsolute multi-turn safety encodertotor position sensor, absolute detectable revolutions4096Rotor position sensor, necoder measuring principleInductiverotor position sensor, DC operating voltage5 Vrotor position sensor, DC operating voltage5 Vrotor position sensor, position values per revolution524288Rotor position ransducer resolution19 bit | Peak current | 11 A |
| Standstill torque constant0.53 Nm/AVoltage constant, phase-to-phase32 mVminPhase-phase winding resistance4.85 0hmPhase-phase winding inductance20 mHWinding longitudinal inductivity Ld (phase)8 mHWinding cross inductivity Lq (phase)10 mHElectric time constant2.7 msThermal time constant41 minThermal resistance1.1 K/WMeasuring flange250 x 250 x 15 mm, steelTotal mass moment of inertia of output0.286 kgcm²Product weight1530 gPermissible axial shaft load70 NPermissible radial shaft load350 NRotor position sensorAbsolute multi-turn safety encodertotor position sensor, absolute detectable revolutions4096Rotor position sensor, necoder measuring principleInductiverotor position sensor, DC operating voltage5 Vrotor position sensor, DC operating voltage5 Vrotor position sensor, position values per revolution524288Rotor position ransducer resolution19 bit | Motor constant | 0.45 Nm/A |
| Voltage constant, phase-to-phase32 mVminPhase-phase winding resistance4.85 OhmPhase-phase winding inductance20 mHWinding longitudinal inductivity Ld (phase)8 mHWinding cross inductivity Lq (phase)10 mHElectric time constant2.7 msThermal time constant41 minThermal resistance1.1 K/WMeasuring flange250 x 250 x 15 mm, steelTotal mass moment of inertia of output0.286 kgcm²Product weight1530 gPermissible axial shaft load70 NPermissible radial shaft load350 NRotor position sensorAbsolute multi-turn safety encodertotor position sensor, manufacturer designationEQI 1131rotor position sensor, encoder interfaceEnDat® 22Rotor position sensor, provide measuring principleInductiverotor position sensor, proder interfaceEnDat® 22Rotor position sensor, proder interfaceEnDat® 22Rotor position sensor, DC operating voltage5 Vrotor position sensor, DC operating voltage range3.6 V14 Vrotor position sensor, position values per revolution524288Rotor position ransducer resolution19 bit | Standstill torque constant | |
| Phase-phase winding resistance4.85 OhmPhase-phase winding inductance20 mHWinding longitudinal inductivity Ld (phase)8 mHWinding cross inductivity Lq (phase)10 mHElectric time constant2.7 msThermal time constant41 minThermal resistance1.1 K/WMeasuring flange250 x 250 x 15 mm, steelTotal mass moment of inertia of output0.286 kgcm²Product weight1530 gPermissible axial shaft load70 NPermissible radial shaft load350 NRotor position sensorAbsolute multi-turn safety encoderrotor position sensor, absolute detectable revolutions4096Rotor position sensor, encoder measuring principleInductiverotor position sensor, DC operating voltage5 Vrotor position sensor, position voltage range3.6 V14 Vrotor position sensor, position values per revolution19 bit | | |
| Phase-phase winding inductance20 mHWinding longitudinal inductivity Ld (phase)8 mHWinding cross inductivity Lq (phase)10 mHElectric time constant2.7 msThermal time constant41 minThermal resistance1.1 K/WMeasuring flange250 x 250 x 15 mm, steelTotal mass moment of inertia of output0.286 kgcm²Product weight1530 gPermissible axial shaft load70 NPermissible radial shaft load350 NRotor position sensorAbsolute multi-turn safety encoderrotor position sensor, absolute detectable revolutions4096Rotor position sensor, encoder measuring principleInductiverotor position sensor, DC operating voltage5 Vrotor position sensor, DC operating voltage range3.6 V14 Vrotor position sensor, position values per revolution524288Rotor position ransducer resolution19 bit | | 4.85 Ohm |
| Winding longitudinal inductivity Ld (phase)8 mHWinding cross inductivity Lq (phase)10 mHElectric time constant2.7 msThermal time constant41 minThermal resistance1.1 K/WMeasuring flange250 x 250 x 15 mm, steelTotal mass moment of inertia of output0.286 kgcm²Product weight1530 gPermissible axial shaft load70 NPermissible radial shaft load350 NRotor position sensorAbsolute multi-turn safety encoderrotor position sensor, manufacturer designationEQI 1131rotor position sensor, encoder measuring principleInductiverotor position sensor, encoder measuring principleInductiverotor position sensor, DC operating voltage5 Vrotor position sensor, position values per revolution524288Rotor position sensor, position values per revolution19 bit | | 20 mH |
| Winding cross inductivity Lq (phase)10 mHElectric time constant2.7 msThermal time constant41 minThermal resistance1.1 K/WMeasuring flange250 x 250 x 15 mm, steelTotal mass moment of inertia of output0.286 kgcm²Product weight1530 gPermissible axial shaft load70 NPermissible radial shaft load350 NRotor position sensorAbsolute multi-turn safety encoderrotor position sensor, manufacturer designationEQI 1131rotor position sensor, encoder measuring principleInductiverotor position sensor, DC operating voltage5 Vrotor position sensor, position values per revolutions524288Rotor position sensor, position values per revolution524288Rotor position ransducer resolution19 bit | | |
| Electric time constant2.7 msThermal time constant41 minThermal resistance1.1 K/WMeasuring flange250 x 250 x 15 mm, steelTotal mass moment of inertia of output0.286 kgcm²Product weight1530 gPermissible axial shaft load70 NPermissible radial shaft load350 NRotor position sensorAbsolute multi-turn safety encoderrotor position sensor, manufacturer designationEQI 1131rotor position sensor, absolute detectable revolutions4096Rotor position sensor, encoder measuring principleInductiverotor position sensor, DC operating voltage5 Vrotor position sensor, DC operating voltage range3.6 V14 Vrotor position sensor, position values per revolution524288Rotor position transducer resolution19 bit | | |
| Thermal time constant41 minThermal resistance1.1 K/WMeasuring flange250 x 250 x 15 mm, steelTotal mass moment of inertia of output0.286 kgcm²Product weight1530 gPermissible axial shaft load70 NPermissible radial shaft load350 NRotor position sensorAbsolute multi-turn safety encoderrotor position sensor, manufacturer designationEQI 1131rotor position sensor, absolute detectable revolutions4096Rotor position sensor, encoder measuring principleInductiverotor position sensor, DC operating voltage5 Vrotor position sensor, DC operating voltage range3.6 V14 Vrotor position sensor, position values per revolution524288Rotor position transducer resolution19 bit | | |
| Thermal resistance1.1 K/WMeasuring flange250 x 250 x 15 mm, steelTotal mass moment of inertia of output0.286 kgcm²Product weight1530 gPermissible axial shaft load70 NPermissible radial shaft load350 NRotor position sensorAbsolute multi-turn safety encoderrotor position sensor, manufacturer designationEQI 1131rotor position sensor, absolute detectable revolutions4096Rotor position sensor, encoder measuring principleInductiverotor position sensor, DC operating voltage5 Vrotor position sensor, DC operating voltage range3.6 V14 Vrotor position sensor, position values per revolution19 bit | | |
| Measuring flange250 x 250 x 15 mm, steelTotal mass moment of inertia of output0.286 kgcm²Product weight1530 gPermissible axial shaft load70 NPermissible radial shaft load350 NRotor position sensorAbsolute multi-turn safety encoderrotor position sensor, manufacturer designationEQI 1131rotor position sensor, absolute detectable revolutions4096Rotor position sensor, encoder measuring principleInductiverotor position sensor, DC operating voltage range5 Vrotor position sensor, DC operating voltage range3.6 V14 Vrotor position sensor, position values per revolution19 bit | | |
| Total mass moment of inertia of output0.286 kgcm²Product weight1530 gPermissible axial shaft load70 NPermissible radial shaft load350 NRotor position sensorAbsolute multi-turn safety encoderrotor position sensor, manufacturer designationEQI 1131rotor position sensor, absolute detectable revolutions4096Rotor position sensor, encoder measuring principleInductiverotor position sensor, DC operating voltage5 Vrotor position sensor, DC operating voltage range3.6 V14 Vrotor position sensor, position values per revolution19 bit | | |
| Product weight1530 gPermissible axial shaft load70 NPermissible radial shaft load350 NRotor position sensorAbsolute multi-turn safety encoderrotor position sensor, manufacturer designationEQI 1131rotor position sensor, absolute detectable revolutions4096Rotor position sensor, encoder measuring principleInductiverotor position sensor, DC operating voltage5 Vrotor position sensor, position values per revolution524288Rotor position sensor, position values per revolution19 bit | | |
| Permissible axial shaft load70 NPermissible radial shaft load350 NRotor position sensorAbsolute multi-turn safety encoderrotor position sensor, manufacturer designationEQI 1131rotor position sensor, absolute detectable revolutions4096Rotor position encoder interfaceEnDat® 22Rotor position sensor, DC operating voltage5 Vrotor position sensor, DC operating voltage range3.6 V14 Vrotor position sensor, position values per revolution524288Rotor position transducer resolution19 bit | · · · | |
| Permissible radial shaft load350 NRotor position sensorAbsolute multi-turn safety encoderrotor position sensor, manufacturer designationEQI 1131rotor position sensor, absolute detectable revolutions4096Rotor position encoder interfaceEnDat® 22Rotor position sensor, encoder measuring principleInductiverotor position sensor, DC operating voltage5 Vrotor position sensor, position values per revolution524288Rotor position transducer resolution19 bit | | |
| Rotor position sensorAbsolute multi-turn safety encoderrotor position sensor, manufacturer designationEQI 1131rotor position sensor, absolute detectable revolutions4096Rotor position encoder interfaceEnDat® 22Rotor position sensor, encoder measuring principleInductiverotor position sensor, DC operating voltage5 Vrotor position sensor, position values per revolution524288Rotor position transducer resolution19 bit | | |
| rotor position sensor, manufacturer designationEQI 1131rotor position sensor, absolute detectable revolutions4096Rotor position encoder interfaceEnDat® 22Rotor position sensor, encoder measuring principleInductiverotor position sensor, DC operating voltage5 Vrotor position sensor, DC operating voltage range3.6 V14 Vrotor position sensor, position values per revolution524288Rotor position transducer resolution19 bit | | |
| rotor position sensor, absolute detectable revolutions4096Rotor position encoder interfaceEnDat® 22Rotor position sensor, encoder measuring principleInductiverotor position sensor, DC operating voltage5 Vrotor position sensor, DC operating voltage range3.6 V14 Vrotor position sensor, position values per revolution524288Rotor position transducer resolution19 bit | | |
| Rotor position encoder interfaceEnDat® 22Rotor position sensor, encoder measuring principleInductiverotor position sensor, DC operating voltage5 Vrotor position sensor, DC operating voltage range3.6 V14 Vrotor position sensor, position values per revolution524288Rotor position transducer resolution19 bit | - | |
| Rotor position sensor, encoder measuring principleInductiverotor position sensor, DC operating voltage5 Vrotor position sensor, DC operating voltage range3.6 V14 Vrotor position sensor, position values per revolution524288Rotor position transducer resolution19 bit | | |
| rotor position sensor, DC operating voltage5 Vrotor position sensor, DC operating voltage range3.6 V14 Vrotor position sensor, position values per revolution524288Rotor position transducer resolution19 bit | | |
| rotor position sensor, DC operating voltage range3.6 V14 Vrotor position sensor, position values per revolution524288Rotor position transducer resolution19 bit | | |
| rotor position sensor, position values per revolution524288Rotor position transducer resolution19 bit | | |
| Rotor position transducer resolution 19 bit | | |
| | | |
| rotor position sensor, system accuracy of angle measurement -120 arcsec120 arcsec | | |
| Safety device Safety device | | |

| Feature | Value |
|--|---|
| Maximum SIL | Safety integrity level 3 See user documentation |
| Safety sub-functions up to SIL2 | Reliable recording and transmission of single-turn position data |
| Safety sub-functions up to SIL3 | Reliable recording and transmission of single-turn position data, only with additional software function in the servo drive |
| Maximum PL and category | Performance Level e, Category 3 See user documentation |
| Safety sub-function up to PL d, Cat. 3 | Reliable recording and transmission of single-turn position data |
| Safety sub-function up to PL e, Cat. 3 | 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 |