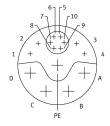
Servo motor EMMT-AS-100-L-HS-RMY Part number: 8160658

FESTO





Data sheet

Feature	Value
Ambient temperature	-15 °C40 °C
Note on ambient temperature	Up to 80 °C with derating of -1.75% 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	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

Certification Email: General Control Board (TUV) CU us - Recognized (OU) CE marking (see declaration of conformity) Apper EU ENG difference Apper	Feature	Value
Bit 60068-2-6 Shock resistance Shock fest with sewrity level 2 as per FN 942017-5 and EN 60068-2-27	LABS (PWIS) conformity	VDMA24364 zone III
Certification Email: General Control Board (TUV) CU us - Recognized (OU) CE marking (see declaration of conformity) Apper EU ENG difference Apper	Vibration resistance	
German Technical Control Board of UNY c U Us - Recognification CE marking (see declaration of conformity) A per EU RMC directive As per EU RMC directive UNCA marking (see declaration of conformity) TUV SERVINS instructions To UK instructions for EMC To UK RAYS instructions To UK PASS instructions To UK PASS IN SERVICE To UK	Shock resistance	Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27
As per EU Bow Voltage directive Asper EU ROSA interctive UKCA marking (see declaration of conformity) TO UK instructions for EMC TO UK ROH'S instructions TO UK ROH'S inst	Certification	German Technical Control Board (TÜV)
To UK RoHS instructions To UK Instructions for electrical equipment To UK Ps 68 (MS 464.00/24 UK 534.2973 Nominal operating voltage DC 680 V Type of winding switch Star Inside Number of pole pairs 5 Stall torque 10.8 Nm Nominal torque 10.8 Nm Nominal torque 27.0 Vm Peak torque 30.5 Nm Nominal torque 30.5 Nm Nominal torque 30.5 Nm Nominal torque 4330 rpm Max. rotational speed 4330 rpm Max. mechanical speed 4330 rpm Max. mechanical speed 4330 rpm Motor nominal power 2030 W Continuous stall current 47.4 Motor cominal querent 47.4 Motor constant 51.54 Nm/A Standstill torque constant 1,75 Nm/A Voltage constant, phase-to-phase 10.6 mVmin Voltage constant, phase-to-phase 10.6 mVmin Voltage constant, phase-to-phase 10.5 mW Winding inductance phase-phase 11.5.7 mW Winding inductivity Lq (phase) 11.8 mB Electric time constant 11.8 mB Electric time constant 11.8 mB Electric time constant 12.8 ms Thermal time constant 10.8 ms Thermal time constant 10.9 Nm Permissible axial shaft load 200 N Permissible radial shaft load Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage revolution 15.4 bit Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage revolution 15.4 bit Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage Rotor Rotor position encoder for DC operating voltage	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 10.8 Nm Nominal torque 7.2 km Peak torque 30.5 Nm Nominal tordary speed 2700 rpm Max. rotational speed 4530 rpm Max. mechanical speed 13000 rpm Angular acceleration 100000 rad/s² Motor nominal power 2030 W Continuous stall current 7 A Motor nominal current 4.7 A Peak current 28.6 A Motor constants 1.54 Nm/A Standstill torque constant 1.75 Nm/A Voltage constant, phase-to-ophase 106 mVmin Phase-phase winding resistance 1.49 Ohm Winding inductional inductivity Ld (phase) 8.7 mH Winding inductivity Lq (phase) 11.8 mH Electric rime constant 15.8 ms Thermal time constant 7.1 min Thermal teristance 0.46 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 5.77 kgcm²	Certificate issuing authority	· _ · · · · · · · · · · · · · · ·
Stall torque	Nominal operating voltage DC	680 V
Stall torque 10.8 Nm Nominal torque 7.2 Nm Peak torque 30.5 Nm Nominal rotary speed 2700 rpm Max. rotational speed 4530 rpm Max. mechanical speed 13000 rpm Angular acceleration 100000 rad/s² Motor nominal power 2930 W Continuous stall current 7 A Motor nominal current 4.7 A Peak current 28.6 A Motor constants 1.54 Nm/A Standstill torque constant 1.75 Nm/A Voltage constant, phase-to-phase 106 mVmin Phase-phase winding resistance 1.49 Ohm Winding inductance phase-phase 15.7 mH Winding longitudinal inductivity Ld (phase) 8.7 mH Cross inductivity Lq (phase) 11.8 mH Electric time constant 15.8 ms Thermal time constant 7.1 min Thermal time constant 7.7 kgcm² Product weight 8700 g Permissible axial shaft load 200 N Portuse light exidat shaft load 200 N	Type of winding switch	Star inside
Nominal torque 7.2 Nm Peak torque 30,5 Nm Nominal rotary speed 2700 rpm Max. rotational speed 4530 rpm Max. mechanical speed 13000 rpm Angular acceleration 100000 rad/s² Motor nominal power 2030 W Continuous stall current 7A Motor nominal current 4.7 A Peak current 28.6 A Motor constants 1.54 Nm/A Standstill torque constant 1.75 Nm/A Voltage constant, phase-to-phase 106 mVmin Phase-phase winding resistance 1.49 Ohm Winding inductance phase-phase 15.7 mH Winding Inductivity Ld (phase) 8.7 mH Cross inductivity Ld (phase) 11.8 mH Electric time constant 15.8 ms Thermal time constant 7.2 min Thermal resistance 0.46 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 5.77 kgcm² Product weight 8700 g Permissible axial shaft load 1110 N	Number of pole pairs	5
Peak torque 30.5 Nm Nominal rotary speed 2700 rpm Max. rotational speed 4530 rpm Max. mechanical speed 130000 rpm Angular acceleration 100000 rad/s² Motor nominal power 2030 W Continuous stall current 4.7 A Motor constant current 4.7 A Peak current 28.6 A Motor constants 1.54 Nm/A Standstill torque constant 1.75 Nm/A Voltage constant, phase-to-phase 106 m/min Phase-phase winding resistance 1.49 Ohm Winding inductance phase-phase 15.7 mH Winding longitudinal inductivity Ld (phase) 8.7 mH Cross inductivity Lq (phase) 11.8 mH Electric time constant 7.1 min Thermal time constant 7.1 min Thermal time constant 7.7 kgcm² Total output inertia moment 5.77 kgcm² Product weight 8700 g Permissible axial shaft toad 200 N Permissible axial shaft toad 201 N Rotor position sensor for manufacturer designation<	Stall torque	10.8 Nm
Nominal rotary speed 2700 rpm Max. rotational speed 4530 rpm Max. mechanical speed 13000 rpm Angular acceleration 100000 rad/s² Motor nominal power 2030 W Continuous stall current 7.4 Motor nominal current 4.7 A Peak current 28.6 A Motor constants 1.54 Nm/A Standstill torque constant 1.75 Nm/A Voltage constant, phase-to-phase 106 mVmin Phase-phase winding resistance 1.49 Ohm Winding inductance phase-phase 15.7 mH Winding longitudinal inductivity Ld (phase) 8.7 mH Cross inductivity Lq (phase) 11.8 mH Electric time constant 15.8 ms Thermal time constant 71 min Thermal tresistance 0.46 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 5.77 kgcm² Permissible axial shaft load 200 N Permissible axial shaft load 200 N Permissible axial shaft load 1110 N Rotor position sensor f	Nominal torque	7.2 Nm
Max. rotational speed 4530 rpm Max. mechanical speed 13000 rpm Angular acceleration 100000 rad/s² Motor mominal power 2030 W Continuous stall current 7 A Motor nominal current 4.7 A Peak current 28.6 A Motor constants 1.54 Nm/A Standstill torque constant 1.75 Nm/A Voltage constant, phase-to-phase 106 mVmin Phase-phase winding resistance 1.49 Ohm Winding inductance phase-phase 15.7 mH Winding longitudinal inductivity Ld (phase) 8.7 mH Cross inductivity Lq (phase) 11.8 mH Electric time constant 15.8 ms Thermal tresistance 0.46 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 5.77 kgcm² Product weight 870 g Permissible axial shaft load 1110 N Rotor position sensor for manufacturer designation EQI 1331 Rotor position sensor for manufacturer designation EQI 1331 Rotor position sensor interface EnDat@ 22	Peak torque	30.5 Nm
Max. mechanical speed 13000 rpm Angular acceleration 100000 rad/s² Motor nominal power 2030 W Continuous stall current 7A Motor nominal current 4.7 A Peak current 28.6 A Motor constants 1.54 Nm/A Standstill torque constant 1.75 Nm/A Voltage constant, phase-to-phase 106 mVmin Phase-phase winding resistance 1.49 Ohm Winding inductance phase-phase 15.7 mH Winding longitudinal inductivity Ld (phase) 8.7 mH Cross inductivity Lq (phase) 11.8 mH Electric time constant 15.8 ms Thermal time constant 21 min Thermal resistance 0.46 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 5.77 kgcm² Product weight 8700 g Permissible axial shaft load 200 N Permissible axial shaft load 1110 N Rotor position sensor for manufacturer designation EQI 1331 Rotor position encoder for absolutely detectable revolutions 4096	Nominal rotary speed	2700 rpm
Angular acceleration 100000 rad/s² Motor nominal power 2030 W Continuous stall current 7A Motor nominal current 4.7 A Motor nominal current 28.6 A Motor constants 1.54 Nm/A Standstill torque constant 1.75 Nm/A Voltage constant, phase-to-phase 106 mVmin Phase-phase winding resistance 1.49 Ohm Winding inductance phase-phase 15.7 mH Winding longitudinal inductivity Ld (phase) 8.7 mH Cross inductivity Lq (phase) 11.8 mH Electric time constant 71 min Thermal time constant 71 min Thermal resistance 0.46 K/W Measuring flange 300 x 300 x 200 mm, steel Total output inertia moment 5.77 kgcm² Product weight 8700 g Permissible axial shaft load 200 N Permissible axial shaft load 1110 N Rotor position sensor for manufacturer designation EQ I 331 Rotor position sensor for manufacturer designation EQ 1331 Rotor position sensor interface EnDat® 22 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 Rotor position enco	Max. rotational speed	4530 rpm
Motor nominal power 2030 W Continuous stall current 7A Motor nominal current 4.7 A Peak current 28.6 A Motor constants 1.54 Nm/A Standstill torque constant 1.75 Nm/A Voltage constant, phase-to-phase 106 mVmin Phase-phase winding resistance 1.49 Ohm Winding inductance phase-phase 15.7 mH Winding longitudinal inductivity Ld (phase) 8.7 mH Cross inductivity Lq (phase) 11.8 mH Electric time constant 15.8 ms Thermal time constant 71 min Thermal resistance 0.46 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 5.77 kgcm² Product weight 870 g Permissible axial shaft load 1110 N Rotor position sensor for manufacturer designation EQI 1331 Rotor position sensor measuring principle Inductive Rotor position encoder for DC operating voltage arage 3.6 k14 V Rotor position encoder for DC operating voltage arage 3.6 k14 V Rotor position encoder for postional values per revolution 524288 Rotor position encoder for positional values per revolution 524288 Rotor position encoder for positional values per revolution 524288 Rotor position encoder for positional values per revolution 524288 Rotor position encoder for positional values per revolution 524288 Rotor position encoder for positional values per revolution 524288 Rotor position encoder for positional values per revolution 524288 Rotor position sensor resolution 524288	Max. mechanical speed	13000 rpm
Continuous stall current 7 A Motor nominal current 4.7 A Motor nominal current 28.6 A Motor constants 1.54 Nm/A Standstill torque constant 1.75 Nm/A Voltage constant, phase-to-phase 106 mVmin Phase-phase winding resistance 1.49 Ohm Winding inductance phase-phase 15.7 mH Winding longitudinal inductivity Ld (phase) 8.7 mH Cross inductivity Lq (phase) 11.8 mH Electric time constant 71 min Thermal resistance 0.46 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 5.77 kgcm² Product weight 8700 g Permissible axial shaft load 200 N Permissible radial shaft load 1110 N Rotor position sensor for manufacturer designation EQI 1331 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 Apole Scotup osition encoder for DC operating voltage ange	Angular acceleration	100000 rad/s ²
Motor nominal current 28.6 A Motor constants 1.54 Mm/A Standstill torque constant 1.75 Nm/A Voltage constant, phase-to-phase 106 mVmin Phase-phase winding resistance 1.49 0hm Winding inductance phase-phase Winding longitudinal inductivity Ld (phase) 15.7 mH Winding longitudinal inductivity Ld (phase) 11.8 mH Electric time constant 71 min Thermal tresistance 0.46 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 5.77 kgcm² Permissible axial shaft load Permissible radial shaft load 200 N Permissible radial shaft load Rotor position sensor for manufacturer designation Rotor position sensor interface Rotor position sensor measuring principle Rotor position encoder for DC operating voltage range	Motor nominal power	2030 W
Peak current 28.6 A Motor constants 1.54 Nm/A Standstill torque constant 1.75 Nm/A Voltage constant, phase-to-phase 106 mVmin Phase-phase winding resistance 1.49 Ohm Winding inductance phase-phase 15.7 mH Winding longitudinal inductivity Ld (phase) Cross inductivity Lq (phase) 11.8 mH Electric time constant 71 min Thermal time constant 71 min Thermal resistance 0.46 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 5.77 kgcm² Porduct weight 8700 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 DC operating voltage range Rotor position encoder for Doc operating voltage range	Continuous stall current	7 A
Motor constants 1.54 Nm/A Standstill torque constant 1.75 Nm/A Voltage constant, phase-to-phase 106 mVmin Phase-phase winding resistance 1.49 Ohm Winding inductance phase-phase 15.7 mH Winding longitudinal inductivity Ld (phase) 8.7 mH Cross inductivity Lq (phase) 11.8 mH Electric time constant 71 min Thermal resistance 0.46 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 5.77 kgcm² Product weight 870 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 interface Rotor position sensor measuring principle Rotor position sensor measuring principle Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage range Rotor position encoder for DC operating voltage range Rotor position encoder for positional values per revolution Source position sensor resolution Source position encoder for positional values per revolution Source position sensor resolution Source position encoder for positional values per revolution Source position sensor resolution Source position encoder for positional values per revolution Source position sensor resolution Source position sensor resolu	Motor nominal current	4.7 A
Standstill torque constant Voltage constant, phase-to-phase 106 mVmin Phase-phase winding resistance 1.49 0hm Winding inductance phase-phase 15.7 mH Winding longitudinal inductivity Ld (phase) 8.7 mH Cross inductivity Lq (phase) 11.8 mH Electric time constant 15.8 ms Thermal time constant 71 min Thermal resistance 0.46 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 5.77 kgcm² Product weight 8700 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 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 positional values per revolution Source position encoder for positional values per revolution	Peak current	28.6 A
Voltage constant, phase-to-phase Phase-phase winding resistance 1.49 0 hm Winding inductance phase-phase 15.7 mH Winding longitudinal inductivity Ld (phase) 8.7 mH Cross inductivity Lq (phase) 11.8 mH Electric time constant 15.8 ms Thermal time constant 71 min Thermal resistance 0.46 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 5.77 kgcm² Product weight 8700 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 For position encoder for positional values per revolution Set position sensor resolution 19 bit	Motor constants	1.54 Nm/A
Phase-phase winding resistance 1.49 0hm Winding inductance phase-phase 15.7 mH Winding longitudinal inductivity Ld (phase) 8.7 mH Cross inductivity Lq (phase) 11.8 mH Electric time constant 15.8 ms Thermal time constant 71 min Thermal resistance 0.46 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 5.77 kgcm² Product weight 8700 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 Setevate Set Set Set Set Set Set Set Set Set S	Standstill torque constant	1.75 Nm/A
Winding inductance phase-phase 15.7 mH Winding longitudinal inductivity Ld (phase) 11.8 mH Electric time constant 15.8 ms Thermal time constant 71 min Thermal resistance 0.46 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 5.77 kgcm² Product weight 8700 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 Rotor position sensor resolution 19 bit	Voltage constant, phase-to-phase	106 mVmin
Winding longitudinal inductivity Ld (phase) 8.7 mH Cross inductivity Lq (phase) 11.8 mH Electric time constant 71 min Thermal time constant 71 min Thermal resistance 0.46 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 5.77 kgcm² Product weight 8700 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	1.49 Ohm
Cross inductivity Lq (phase) 11.8 mH Electric time constant 71 min Thermal time constant 71 min Thermal resistance 0.46 K/W Measuring flange 300 x 300 x 20 mm, steel 5.77 kgcm² Product weight 8700 g Permissible axial shaft load Permissible radial shaft load 1110 N 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 8000 position sensor resolution 19 bit	Winding inductance phase-phase	15.7 mH
Electric time constant Thermal time constant 71 min Thermal resistance 0.46 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 5.77 kgcm² Product weight 8700 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 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	Winding longitudinal inductivity Ld (phase)	8.7 mH
Thermal time constant Thermal resistance O.46 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 5.77 kgcm² Product weight 8700 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)	11.8 mH
Thermal resistance O.46 K/W Measuring flange 300 x 300 x 20 mm, steel Total output inertia moment 5.77 kgcm² Product weight 8700 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 So V Rotor position encoder for DC operating voltage range 3.6 V14 V Rotor position sensor resolution 19 bit	Electric time constant	15.8 ms
Measuring flange Total output inertia moment 5.77 kgcm² Product weight 8700 g Permissible axial shaft load 200 N Permissible radial shaft load 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 Inductive Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage range Rotor position encoder for positional values per revolution 80 × 300 × 300 × 20 mm, steel 5.77 kgcm² 8700 g 8700 g 8700 g 8700 p 80 N 80 Il 10 N	Thermal time constant	71 min
Total output inertia moment Product weight 8700 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 Source of the sensor resolution sensor resolution Source of the sensor measuring principle inductive Rotor position encoder for DC operating voltage range Rotor position encoder for positional values per revolution Source of the sensor measuring principle inductive Rotor position encoder for positional values per revolution Source of the sensor measuring principle inductive Rotor position encoder for positional values per revolution Source of the sensor measuring principle inductive Rotor position encoder for positional values per revolution Source of the sensor measuring principle inductive Rotor position encoder for positional values per revolution Source of the sensor measuring principle inductive Rotor position encoder for positional values per revolution Source of the sensor measuring principle inductive Rotor position encoder for positional values per revolution Source of the sensor measuring principle inductive Rotor position encoder for positional values per revolution Source of the sensor measuring principle inductive Rotor position encoder for DC operating voltage range Rotor position encoder for DC operating voltage r	Thermal resistance	0.46 K/W
Product weight 8700 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 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	Measuring flange	300 x 300 x 20 mm, steel
Permissible axial shaft load Permissible radial shaft load Rotor position sensor Rotor position sensor for manufacturer designation Rotor position encoder for absolutely detectable revolutions Rotor position sensor interface Rotor position sensor measuring principle Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage range Rotor position encoder for positional values per revolution Solv14 V Rotor position sensor resolution 19 bit	Total output inertia moment	5.77 kgcm ²
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	8700 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