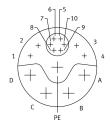
## **Servo motor** EMMT-AS-150-LKR-HT-R2MYB Part number: 8148359

**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	IP21
Note on degree of protection	IP21 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
Featherkey shaft design	DIN 6885 A 8 x 7 x 36
Interface code, motor out	150A
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

LABS PMPS) conformity  Vibration resistance  as per EN 60068-2-26  Shock resistance  as per EN 60068-2-27  Certification  Certification  Certification  Certification  Certification  Certification  Certification  Certification  Conformity)  As per EU Move Values and EV Notes As Per EU Move Values of Incitive Was Personal Perso	Feature	Value
Struck resistance   as per EN 60068-2-6	Corrosion resistance class (CRC)	0 - No corrosion stress
Shock resistance    Sp of EN GOORS 2-27	LABS (PWIS) conformity	VDMA24364 zone III
Lettification   15 g/11 ms as per EN 60068-2-27   CET marking (see declaration of conformity)   Apper FUL IVEM Cherchive As per FUL IVEM Cherchive A	Vibration resistance	as per EN 60068-2-6
Certification clusters and contormity clusters are contormity clusters Recognized (OL)  CE marking (see declaration of conformity)  As per EU EMC directive As per EU Rolfs di	Shock resistance	
EE marking (see declaration of conformity)  A per EU RoHS directive As per EU RoHS directive As per EU RoHS directive  TO UK instructions for EMC to UK RoHS instructions TO UK instructions for EMC to UK RoHS instructions TO UK instructions for electrical equipment  Eertificate issuing authority  TU 9 966/FSP 3317,00/21  UL 5342973  Nominal operating voltage DC 680 V  Type of winding switch Star inside  Number of pole pairs 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Certification	RCM compliance mark
As per EU Blow Voltage directive As per EU Blow Siderective  UKCA marking (see declaration of conformity)  To UK instructions for EMC To UK Rom's Instructions To UK instructions for EMC To UK Rom's Instructions To UK instruction To UK instructions To UK instru		
To UK RoTS instructions To UK instructions for electrical equipment  Certificate issuing authority  IDV 968/FSP 2317,00/21  UE 342973  Nominal operating voltage DC  680 V  Type of winding switch  Star inside  Number of pole pairs  5  Stall torque  44 Nm  Nominal torque  93-7 Nm  Peak torque  86 Nm  Nominal torque  98-Nm  Naminal rotary speed  1000 rpm  Max. rotational speed  Angular acceleration  100000 rad/s²  Motor nominal power  4157 W  Continuous stall current  11.4 A  Motor nominal querent  10.3 A  Peak current  43.8 Nm/A  Standstill torque constant  4.38 Nm/A  Standstill torque constant  4.38 Nm/A  Winding inductane phase-phase  10.010 mm  Winding inductane phase-phase  15.7 mH  Winding longitudinal inductivity Ld (phase)  7.95 mH  Cross inductivity Ld (phase)  7.95 mH  Thermal resistance  4.04 K/W  Measuring flange  450 x 450 x 30 mm, steel  Total current and 346 N  Permissible axial shaft load  1730 N  Rotor position sensor for manufacturer designation  Rotor position encoder for DC operating voltage  Rotor position encoder for DC operating voltage  Rotor position encoder for positional values per revolution  8 264.8 km  8 65 km  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  10 bit	CE marking (see declaration of conformity)	As per EU low voltage directive
UL £342973	UKCA marking (see declaration of conformity)	To UK RoHS instructions
Type of winding switch Number of pole pairs 5 5 Stall torque Nominal torque 39.7 Nm Peak torque 86 Nm Nominal tortay speed Nominal tortay speed Nominal tortay speed 10000 rpm Max. rotational speed 1812 rpm Angular acceleration 100000 rad/s² Angular acceleration 10.3 A Peak current 11.4 A Motor nominal power 10.3 A Peak current 10.16 Amm/A Voltage constant, phase-to-phase 10.16 Ohm Voltage constant, phase-to-phase 10.16 Ohm Voltage constant, phase-to-phase 10.16 Ohm Voltage constant inductivity Ld (phase) 10.17 mH Voltage constant inductivity Ld (phase) 10.18 mH Voltage constant inductivity Ld (phase) 10.2 mH Voltage constant inductivity Ld (phase) 10.3 mh Voltage constant inductivity Ld (phase) 10.4 mh Voltage constant inductivity Ld (phase) 10.5 min Thermal time constan	Certificate issuing authority	
Stall torque	Nominal operating voltage DC	680 V
Stall torque         44 Nm           Nominal torque         39.7 Nm           Peak torque         86 Nm           Nominal rotary speed         1000 rpm           Max. rotational speed         1812 rpm           Angular acceleration         100000 rad/s²           Motor nominal power         4157 W           Continuous stall current         11.4 A           Motor nominal current         10.3 A           Peak current         24 A           Motor constants         3.85 Nm/A           Standstill torque constant         4.38 Nm/A           Voltage constant, phase-to-phase         264.9 mVmin           Phase-phase winding resistance         1.016 Ohm           Winding inductance phase-phase         15.7 mH           Winding longitudinal inductivity Ld (phase)         7.95 mH           Cross inductivity Lq (phase)         7.85 mH           Electric time constant         15.6 ms           Thermal time constant         55 min           Thermal resistance         0.42 k/W           Measuring flange         450 x 450 x 30 mm, steel           Total output inertia moment         7.0 kgcm²           Product weight         29700 g           Permissible axial shaft load         13 of N      <	Type of winding switch	Star inside
Nominal torque   39.7 Nm	Number of pole pairs	5
Peak torque 86 Nm Nominal rotary speed 1000 rpm Max. rotational speed 1812 rpm Angular acceleration 1000000 rad/s³ Motor nominal power 4157 W Continuous stall current 11.4 A Motor nominal current 10.3 A Motor constants 10.3 A Motor constants 3.85 Nm/A Standsfill torque constant 4.38 Nm/A Voltage constant, phase-to-phase 264.9 m/min Phase-phase winding resistance 10.16 Ohm Winding inductance phase-phase 15.7 mH Winding inductance phase-phase 15.7 mH Winding longitudinal inductivity Ld (phase) 7.95 mH Cross inductivity Lq (phase) 7.85 mH Electric time constant 55 min Thermal time constant 55 min Thermal resistance 0.42 K/W Measuring flange 450 x 450 x 30 mm, steel 7014 lought inertial moment 70.1 kgcm² Product weight 29700 g Permissible axial shaft load 1730 N Rotor position sensor for manufacturer designation EQ 1331 Rotor position sensor for D coperating voltage For V Rotor position encoder for DC operating voltage For V Rotor position encoder for DC operating voltage ange 3.6 V14 V 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 encoder for positional values per revolution 524288 Rotor position encoder for positional values per revolution 524288 Rotor position encoder for positional values per revolution 65 Nm	Stall torque	44 Nm
Nominal rotary speed  Max. rotational speed  Angular acceleration  Motor nominal power  Continuous stall current  11.4 A  Motor nominal current  10.3 A  Peak current  24 A  Motor constants  Standstill torque constant  Voltage constant, phase-to-phase  Phase-phase winding resistance  Winding inductance phase-phase  Winding inductance inductivity Ld (phase)  7.95 mH  Winding inductance inductivity Ld (phase)  8.60 x 30 mm, steel  7.01 kgcm²  9.70 x 30 mm, steel  7.01 kgcm²  1.01 kgcm²  1	Nominal torque	39.7 Nm
Max. rotational speed         1812 rpm           Angular acceleration         100000 rad/s²           Motor nominal power         4157 W           Continuous stall current         10.3 A           Motor constants         24 A           Motor constants         3.85 Nm/A           Standstill torque constant         4.38 Nm/A           Voltage constant, phase-to-phase         264.9 m/min           Phase-phase winding resistance         1.016 Ohm           Winding inductance phase-phase         15.7 mH           Winding longitudinal inductivity Ld (phase)         7.95 mH           Cross inductivity Lq (phase)         7.85 mH           Electric time constant         15.6 ms           Thermal time constant         55 min           Thermal resistance         0.42 K/W           Measuring flange         450 x 450 x 30 mm, steel           Total output inertia moment         70.1 kgcm²           Product weight         29700 g           Permissible axial shaft load         346 N           Permissible axial shaft load         1730 N           Rotor position sensor for manufacturer designation         EQI 1331           Rotor position sensor interface         EnDat® 22           Rotor position sensor measuring principle         Inductive<	Peak torque	86 Nm
Angular acceleration 100000 rad/s²  Motor nominal power 4157 W  Continuous stall current 11.4 A  Motor constant 10.3 A  Peak current 24 A  Motor constants 3.85 Nm/A  Standsfill torque constant 4.38 Nm/A  Voltage constant, phase-to-phase 264.9 mVmin  Phase-phase winding resistance 1.016 Ohm  Winding inductance phase-phase 15.7 mH  Winding longitudinal inductivity Ld (phase) 7.85 mH  Electric time constant 15.6 ms  Thermal time constant 15.6 ms  Thermal time constant 55 min  Thermal resistance 0.42 K/W  Measuring flange 450 x 450 x 30 mm, steel  Total output inertia moment 70.1 kgcm²  Product weight 29700 g  Permissible axial shaft load 346 N  Permissible radial shaft load 1730 N  Rotor position sensor for manufacturer designation EQI 1331  Rotor position sensor for manufacturer designation EQI 1331  Rotor position sensor for manufacturer designation EQI 1331  Rotor position sensor measuring principle Inductive Rotor position encoder for DC operating voltage 5V  Rotor position encoder for DC operating voltage ange Rotor position encoder for DC operating voltage ange Scot position encoder for DC operating voltage ange Rotor position encoder for DC operating voltage per revolution 524288  Rotor position encoder for DC operating voltage per revolution 65 Nm	Nominal rotary speed	1000 rpm
Motor nominal power Continuous stall current 11.4 A Motor nominal current 10.3 A Peak current 24 A Motor constants 3.85 Nm/A Standstill torque constant 4.38 Nm/A Voltage constant, phase-to-phase 264.9 m/min Phase-phase winding resistance 1.016 Ohm Winding inductance phase-phase Winding inductance phase-phase Winding inductivity Ld (phase) 7.95 mH Cross inductivity Lq (phase) 7.85 mH Electric time constant 15.6 ms Thermal tree constant Thermal resistance 0.42 K/W Measuring flange 450 x 450 x 30 mm, steel Total output inertia moment 70.1 kgcm² Product weight 29700 g Permissible axial shaft load Permissible radial shaft load 1730 N Rotor position sensor for manufacturer designation Rotor position sensor interface Rotor position encoder for DC operating voltage range Rotor position encoder system accuracy angle measurement -65 nrsec65 arcsec65 arcsec.	Max. rotational speed	1812 rpm
Continuous stall current  Motor nominal current  10.3 A  Peak current  24 A  Motor constants  3.85 Nm/A  Standstill torque constant  Voltage constant, phase-to-phase  264.9 mVmin  Phase-phase winding resistance  1.016 Ohm  Winding inductance phase-phase  Winding longitudinal inductivity Ld (phase)  7.95 mH  Cross inductivity Lq (phase)  T.85 mH  Electric time constant  55 min  Thermal time constant  55 min  Thermal resistance  0.42 K/W  Measuring flange  450 x 450 x 30 mm, steel  Total output inertia moment  7.01 kgcm²  Porduct weight  29700 g  Permissible axial shaft load  346 N  Permissible axial shaft load  1730 N  Rotor position sensor for manufacturer designation  EQI 1331  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  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 encoder for positional values per revolution  Rotor position encoder system accuracy angle measurement  65 Nm	Angular acceleration	100000 rad/s <sup>2</sup>
Motor nominal current  24 A  Motor constants  3.85 Nm/A  Standstill torque constant  4.38 Nm/A  Standstill torque constant  4.30 Nm/M  Standstill torque constant  5.6 mm  1.016 Ohm  Winding inductance phase-phase  15.7 mH  Winding longitudinal inductivity Ld (phase)  7.95 mH  Cross inductivity Lq (phase)  7.85 mH  Electric time constant  15.6 ms  Thermal time constant  15.6 ms  Thermal resistance  0.42 K/W  Measuring flange  450 x 450 x 30 mm, steel  70.1 kgcm²  Product weight  29700 g  Permissible axial shaft load  346 N  Permissible axial shaft load  346 N  Permissible axial shaft load  346 N  Rotor position sensor for manufacturer designation  EQI 1331  Rotor position sensor for manufacturer designation  EQI 1331  Rotor position sensor for masuring principle  Rotor position sensor interface  Rotor position sensor measuring principle  Inductive  Rotor position sensor measuring principle  Rotor position encoder for DC operating voltage  8 V  Rotor position encoder for DC operating voltage range  3.6 V14 V  Rotor position encoder for position values per revolution  8 254 288  Rotor position encoder for position values per revolution  Rotor position encoder for position values per revolution  8 254 288  Rotor position encoder for position values per revolution  9 bit  Rotor position encoder for position values per revolution  8 264 S mm  6 5 arcsec65 arcsec  6 6 Nm	Motor nominal power	4157 W
Peak current 24 A  Motor constants 3.85 Nm/A  Standstill torque constant 4.38 Nm/A  Voltage constant, phase-to-phase 264.9 mVmin  Phase-phase winding resistance 1.016 Ohm  Winding inductance phase-phase 15.7 mH  Winding inductivity Ld (phase) 7.95 mH  Cross inductivity Lq (phase) 7.85 mH  Electric time constant 15.6 ms  Thermal time constant 55 min  Thermal resistance 0.42 K/W  Measuring flange 450 x 450 x 30 mm, steel 70.1 kgcm²  Product weight 29700 g  Permissible axial shaft load 1730 N  Rotor position sensor for manufacturer designation EQI 1331  Rotor position sensor interface EnDat® 22  Rotor position sensor interface EnDat® 22  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 positional values per revolution 52428  Rotor position encoder for positional values per revolution 52428  Rotor position encoder system accuracy angle measurement 65 km 65 km 65 km 65 km 66 k	Continuous stall current	11.4 A
Motor constants  3.85 Nm/A  Standstill torque constant  4.38 Nm/A  Voltage constant, phase-to-phase  264.9 mVmin  Phase-phase winding resistance  1.016 Ohm  Winding inductance phase-phase  Winding inductative phase-phase  Winding longitudinal inductivity Ld (phase)  Cross inductivity Lq (phase)  7.85 mH  Electric time constant  15.6 ms  Thermal time constant  55 min  Thermal resistance  0.42 K/W  Measuring flange  450 x 450 x 30 mm, steel  Total output inertia moment  70.1 kgcm²  Product weight  29700 g  Permissible axial shaft load  346 N  Permissible radial shaft load  1730 N  Rotor position sensor Safety encoder, absolute multi-turn  Rotor position sensor For manufacturer designation  Rotor position sensor Interface  En Dat® 22  Rotor position sensor interface  En Dat® 22  Rotor position encoder for DC operating voltage range  Rotor position encoder for C Operating voltage range  Rotor position encoder for DC operating voltage range  Rotor position encoder for prositional values per revolution  Rotor position encoder for prositional values per revolution  Rotor position encoder system accuracy angle measurement  65 Nm	Motor nominal current	10.3 A
Standstill torque constant  Voltage constant, phase-to-phase  264.9 mVmin  Phase-phase winding resistance  1.016 0 hm  Winding inductance phase-phase  15.7 mH  Winding longitudinal inductivity Ld (phase)  7.95 mH  Cross inductivity Lq (phase)  7.85 mH  Electric time constant  55 min  Thermal time constant  55 min  Thermal resistance  0.42 K/W  Measuring flange  450 x 450 x 30 mm, steel  Total output inertia moment  70.1 kgcm²  Product weight  29700 g  Permissible axial shaft load  Permissible axial shaft load  Rotor position sensor for manufacturer designation  Rotor position sensor for manufacturer designation  Rotor position sensor interface  Rotor position sensor measuring principle  Rotor position sensor measuring principle  Rotor position encoder for DC operating voltage  Rotor position encoder for DC operating voltage range  Rotor position encoder for positional values per revolution  Rotor position encoder system accuracy angle measurement  65 ncsec65 arcsec.  Brake holding torque	Peak current	24 A
Voltage constant, phase-to-phase Phase-phase winding resistance 1.016 Ohm Winding inductance phase-phase 15.7 mH Winding longitudinal inductivity Ld (phase) 7.95 mH Cross inductivity Lq (phase) 7.85 mH Electric time constant 15.6 ms Thermal time constant 55 min Thermal resistance 0.42 K/W Measuring flange 450 x 450 x 30 mm, steel Total output inertia moment 70.1 kgcm² Product weight 29700 g Permissible axial shaft load 346 N Permissible radial shaft load 1730 N Rotor position sensor for manufacturer designation Rotor position encoder for absolutely detectable revolutions 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 Sotor position encoder for positional values per revolution Sotor position encoder system accuracy angle measurement	Motor constants	3.85 Nm/A
Phase-phase winding resistance  1.016 Ohm  Winding inductance phase-phase  15.7 mH  Winding longitudinal inductivity Ld (phase)  7.95 mH  Cross inductivity Lq (phase)  7.85 mH  Electric time constant  15.6 ms  Thermal time constant  55 min  Thermal resistance  0.42 K/W  Measuring flange  450 x 450 x 30 mm, steel  Total output inertia moment  70.1 kgcm²  Product weight  29700 g  Permissible axial shaft load  346 N  Permissible radial shaft load  1730 N  Rotor position sensor for manufacturer designation  Rotor position sensor for manufacturer designation  Rotor position sensor interface  EnDat® 22  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  Rotor position encoder for positional values per revolution  Rotor position encoder for positional values per revolution  Rotor position encoder system accuracy angle measurement  65 mK  65 mK  For mH  1.016 Ohm  1.0	Standstill torque constant	4.38 Nm/A
Winding inductance phase-phase  Winding longitudinal inductivity Ld (phase)  7.95 mH  Cross inductivity Lq (phase)  7.85 mH  Electric time constant  15.6 ms  Thermal time constant  Thermal resistance  0.42 K/W  Measuring flange  450 x 450 x 30 mm, steel  Total output inertia moment  70.1 kgcm²  Product weight  29700 g  Permissible axial shaft load  1730 N  Rotor position sensor  Rotor position encoder for absolutely detectable revolutions  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  Rotor position encoder system accuracy angle measurement  Rotor position encoder system accuracy angle measurement  Rotor position encoder system accuracy angle measurement  Rotor position encoder for accuracy angle measurement  Rotor position encoder system accuracy angle measurement  Rotor position encoder for accuracy angle measurement  Rotor position en	Voltage constant, phase-to-phase	264.9 mVmin
Winding longitudinal inductivity Ld (phase) 7.95 mH  Cross inductivity Lq (phase) 7.85 mH  Electric time constant 15.6 ms  Thermal time constant 55 min  Thermal resistance 0.42 K/W  Measuring flange 450 x 450 x 30 mm, steel  Total output inertia moment 70.1 kgcm²  Product weight 29700 g  Permissible axial shaft load 346 N  Permissible radial shaft load 1730 N  Rotor position sensor for manufacturer designation EQI 1331 Rotor position encoder for absolutely detectable revolutions Rotor position sensor interface EnDat® 22  Rotor position sensor measuring principle Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage Rotor position encoder for positional values per revolution Solution position encoder for positional values per revolution Rotor position encoder system accuracy angle measurement For position encoder system accuracy angle measurement For position encoder for encoder system accuracy angle measurement For position encoder for encoder for position encoder system accuracy angle measurement For position encoder for encoder for position encoder system accuracy angle measurement For position encoder for position encoder system accuracy angle measurement For position encoder for position encoder system accuracy angle measurement For position encoder system accuracy angle measurement For position encoder for	Phase-phase winding resistance	1.016 Ohm
Cross inductivity Lq (phase)  Electric time constant  Thermal time constant  Thermal resistance  0.42 K/W  Measuring flange  450 x 450 x 30 mm, steel  Total output inertia moment  70.1 kgcm²  Product weight  29700 g  Permissible axial shaft load  346 N  Permissible radial shaft load  Rotor position sensor  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 sensor resolution  Rotor position sensor resolution  Rotor position sensor position al values per revolution  Rotor position encoder system accuracy angle measurement  65 arcsec65 arcsec  Brake holding torque  7.85 mH  15.6 ms  15.6 ms  15.6 ms  15.6 ms  15.6 ms  16.8 min  17.0 N  29700 g  29700	Winding inductance phase-phase	15.7 mH
Electric time constant  Thermal time constant  Thermal resistance  0.42 K/W  Measuring flange  450 x 450 x 30 mm, steel  Total output inertia moment  70.1 kgcm²  Product weight  29700 g  Permissible axial shaft load  346 N  Permissible radial shaft load  730 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  Rotor position encoder for positional values per revolution  Rotor position sensor resolution  19 bit  Rotor position encoder system accuracy angle measurement  65 Nm	Winding longitudinal inductivity Ld (phase)	7.95 mH
Thermal time constant  Thermal resistance  0.42 K/W  Measuring flange  450 x 450 x 30 mm, steel  Total output inertia moment  70.1 kgcm²  Product weight  29700 g  Permissible axial shaft load  1730 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  Rotor position encoder for positional values per revolution  800 S24288  Rotor position encoder system accuracy angle measurement  65 Nm  Position encoder system accuracy angle measurement  65 Nm	Cross inductivity Lq (phase)	7.85 mH
Thermal resistance  0.42 K/W  Measuring flange  450 x 450 x 30 mm, steel  70.1 kgcm²  Product weight  Product weight  29700 g  Permissible axial shaft load  1730 N  Rotor position sensor  Rotor position encoder for absolutely detectable revolutions  Rotor position sensor interface  Rotor position sensor measuring principle  Rotor position encoder for DC operating voltage  Rotor position encoder for DC operating voltage range  Rotor position encoder for positional values per revolution  Rotor position encoder system accuracy angle measurement  65 Nm	Electric time constant	15.6 ms
Measuring flange 450 x 450 x 30 mm, steel  70.1 kgcm²  Product weight 29700 g  Permissible axial shaft load 346 N  Permissible radial shaft load 1730 N  Rotor position sensor Safety encoder, absolute multi-turn  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 Rotor position encoder for DC operating voltage as Subject of the Composition encoder for DC operating voltage as Subject on the Composition encoder for DC operating voltage as Subject on the Composition encoder for DC operating voltage as Subject on the Composition encoder for DC operating voltage as Subject on the Composition encoder for DC operating voltage as Subject on the Composition encoder for positional values per revolution sensor resolution and subject on the Composition encoder system accuracy angle measurement encoder system accuracy angle encoder system	Thermal time constant	55 min
Total output inertia moment Product weight Product weight 29700 g  Permissible axial shaft load 346 N  Permissible radial shaft load 1730 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 DC operating voltage range Rotor position sensor resolution 19 bit Rotor position encoder system accuracy angle measurement 65 Nm	Thermal resistance	0.42 K/W
Product weight 29700 g  Permissible axial shaft load 346 N  Permissible radial shaft load 1730 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 encoder system accuracy angle measurement -65 arcsec65 arcsec  Brake holding torque 65 Nm	Measuring flange	450 x 450 x 30 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 1331 Rotor position encoder for absolutely detectable revolutions Rotor position sensor interface EnDat® 22 Rotor position sensor measuring principle Rotor position encoder for DC operating voltage Rotor position encoder for DC operating voltage 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 Brake holding torque 65 Nm	Total output inertia moment	70.1 kgcm²
Permissible radial shaft load  Rotor position sensor  Safety encoder, absolute multi-turn  Rotor position sensor for manufacturer designation  EQI 1331  Rotor position encoder for absolutely detectable revolutions  Rotor position sensor interface  EnDat® 22  Rotor position sensor measuring principle  Inductive  Rotor position encoder for DC operating voltage  Rotor position encoder for DC operating voltage range  Rotor position encoder for positional values per revolution  Source position sensor resolution  19 bit  Rotor position encoder system accuracy angle measurement  65 arcsec65 arcsec  Brake holding torque  65 Nm	Product weight	29700 g
Rotor position sensor  Rotor position sensor for manufacturer designation  EQI 1331  Rotor position encoder for absolutely detectable revolutions  Rotor position sensor interface  EnDat® 22  Rotor position sensor measuring principle  Rotor position encoder for DC operating voltage  Rotor position encoder for DC operating voltage range  Rotor position encoder for positional values per revolution  Safety encoder, absolute multi-turn  EQI 1331  Rotor position sensor interface  EnDat® 22  Rotor position encoder for DC operating voltage  5 V  Rotor position encoder for DC operating voltage range  3.6 V14 V  Rotor position sensor resolution  19 bit  Rotor position encoder system accuracy angle measurement  -65 arcsec65 arcsec  Brake holding torque  65 Nm	Permissible axial shaft load	346 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 ange  Rotor position encoder for DC operating voltage range  Rotor position encoder for positional values per revolution  Source position sensor resolution  Rotor position encoder system accuracy angle measurement  For position encoder system accu	Permissible radial shaft load	1730 N
Rotor position encoder for absolutely detectable revolutions  Rotor position sensor interface  Rotor position sensor measuring principle  Rotor position encoder for DC operating voltage  Rotor position encoder for DC operating voltage ange  Rotor position encoder for DC operating voltage range  Rotor position encoder for positional values per revolution  524288  Rotor position sensor resolution  19 bit  Rotor position encoder system accuracy angle measurement  -65 arcsec65 arcsec  Brake holding torque  65 Nm	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 encoder system accuracy angle measurement -65 arcsec65 arcsec  Brake holding torque 65 Nm	Rotor position sensor for manufacturer designation	EQI 1331
Rotor position sensor measuring principle Rotor position encoder for DC operating voltage Structure position encoder for DC operating voltage Rotor position encoder for DC operating voltage range Rotor position encoder for positional values per revolution Structure position sensor resolution Structure position encoder system accuracy angle measurement For position encoder system accuracy angle enco	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 encoder system accuracy angle measurement -65 arcsec65 arcsec  Brake holding torque 65 Nm	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 encoder system accuracy angle measurement -65 arcsec65 arcsec  Brake holding torque 65 Nm	Rotor position sensor measuring principle	Inductive
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 encoder system accuracy angle measurement -65 arcsec65 arcsec  Brake holding torque 65 Nm	Rotor position encoder for DC operating voltage	5 V
Rotor position sensor resolution 19 bit Rotor position encoder system accuracy angle measurement -65 arcsec65 arcsec Brake holding torque 65 Nm	Rotor position encoder for DC operating voltage range	3.6 V14 V
Rotor position encoder system accuracy angle measurement -65 arcsec65 arcsec  Brake holding torque 65 Nm	Rotor position encoder for positional values per revolution	524288
Brake holding torque 65 Nm	Rotor position sensor resolution	19 bit
Brake holding torque 65 Nm	Rotor position encoder system accuracy angle measurement	-65 arcsec65 arcsec
Brake DC operating voltage 24 V	Brake holding torque	65 Nm
	Brake DC operating voltage	24 V

Feature	Value
Brake power consumption	26 W
	Safety device Safety integrity level 2 Reliable recording and transmission of single-turn position data Performance Level d, Category 3 Reliable recording and transmission of single-turn position data
Brake mass moment of inertia	12.5 kgcm²
Switching cycles, holding brake	5 million idle actuations (without friction work!)
PFHd, subcomponent	15 x 10E-9, encoder
Duration of use Tm, subcomponent	20 years, rotor position sensor
MTTF, subcomponent	190 years, rotor position sensor
Energy efficiency	ENEFF (CN) / Class 1