Part number: 8148364



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 °C
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	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 including connection components
Concentricity, coaxiality, axial runout to DIN SPEC 42955	N
Balance quality	G 2.5
Detent torque	<1.0% of the peak torque
Bearing lifetime under nominal conditions	20000 h
Featherkey shaft type	DIN 6885 A 8 x 7 x 36
Interface code, motor out	150A
Electrical connection 1, connection type	Hybrid plug
Electrical connection 1, connector system	M40x1
Electrical connection 1, number of connections/cores	15
Pollution degree	2
Note on materials	RoHS-compliant
Corrosion resistance class CRC	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III

Shock resistance As per Pk 100008-7-29 Syf11 in so E N 60008-2-27 Approval RCM trademark Cill us - Recognited (OL) CE mark (see declaration of conformity) To ELEMA Directive In CUL tow Voltage birective In Cardinary (see declaration of conformity) To LK instructions for EMC In KNR Short Sinstructions To LK instructions for EMC In KNR Short Sinstructions To LK (regulations for decircal equipment) Certificate issuing authority UL 532-73 Nominal operating voltage DC See OV See of Winding switch Sur Inside Number of pole pairs Standardil torque 45.5 Nm Nominal torque 45.5 Nm Nominal torque 29 Nm Peak torque Son Nominal speed Son Opping Max. notational speed 300 pm Max. notational speed 300 pm Max. notational speed 300 pm Max. notational stale current 40.5 A Motion constant Sindardil torque constant 11.8 A Peak current 40.5 A Motion constant 12.3 Min/A Notational stale current 40.5 A Motion constant 13.8 Min/A Standardil torque constant 12.3 Min/A Voltage constant, phase to phase Phase phase winding resistance 40.5 Ohm Phase phase winding inductance 4.4 mH Winding cross inductive full phase) 1.7 ms Phermal time constant 1.7 ms 1.7	Feature	Value
Sig/11 ms to EN 60068-2-27 Approval RCM trademark EUL us - Recognized (OL)	Vibration resistance	As per EN 60068-2-6
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To EU Low Voltage Directive In accordance with EU Borts Directive CE marking (see declaration of conformity) To UK instructions for EMC To UK regulations for electrical equipment Certificate issuing authority UL 342973 Nominal operating voltage DC 880 V Type of winding switch Number of pole pairs Standstill forque 45.5 Nm Nominal rotroque 29 Nm Peak torque 87 Nm Nominal rotroque 87 Nm Nominal power rating of motor 6377 W Continuous stall current 04.5.4 A Peak current 49.5.5 A Notrocostant 1.88 Nm/A Standstill forque constant 2.23 Nm/A Notrocostant 1.23 Nm/A Notrocostant 1.24 Nm/A Notrocostant 1.25 Nm Notrocostant 1.25 Nm Notrocostant 1.26 Nm Notrocostant 1.27 Nm Notrocostant 1.28 Nm/A Notrocostant 1.29 Nm Notrocostant 1.20 Nm Notrocostant	CE mark (see declaration of conformity)	
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To UK Rolfs instructions Certificate Issuing authority UL 5342973 Nominal operating voltage DC S80 V Yupe of winding switch Star inside Number of pole pairs 5 Standasilli torque A5.5 llm Nominal orque 29 Nm Peak torque 87 Nm Nominal torque 88 Nm Nominal orque 89 Nm Nominal orque 89 Nm Nominal orque 89 Nm Nominal orque 8000 rpm Nominal orque 8000 rpm Nominal ordury speed 8000 rpm Max. retational speed 8000 rpm Nominal motor user of syrate of		
To UK regulations for electrical equipment Certificate issuing authority Nominal operating voltage DC 680 V Type of winding switch Number of pole pairs Sariandstill torque 45.5 Nm Nominal torque 29 Nm Peak torque 87 Nm Nominal torque 29 Nm Reak torque 8000 rpm Max. rechanical speed Max. rechanical speed Max. mechanical speed Max. mechanical speed Max. mechanical speed Nominal notor current 23.6 A Nominal motor current 45.5 A Nominal motor current 15.4 A Reak current 49.5 A Motor constant 1.88 Nm/A Standstill torque constant Voltage constant, phase-to-phase 135.1 m/min Phase-phase winding inductance 4.4 mH Winding corpus mid inductivity Lq (phase) 2.2 mH Electric time constant 17.1 ms Thermal tires constant 18.70 Ng Ng Measuring flange 450 x 450 x 30 x mm, steel Total mass moment of inertia of output Product weight Product weight Product weight Roof position sensor Absolute multi-turn encoder Fortor position sensor, absolute detectable revolutions Rotor position sensor, concoder measuring principle Inductive position sensor, concoder measuring principle Inductive position sensor, position values per revolution 18 rake kording increase 19 bit Product position sensor, position values per revolution 19 colorating woltage on the selection of the pick 19 colorating voltage constant 19 bit Product position sensor, position values per revolution 19 colorating voltage on the selection of the pick 24 V Rortor position sensor, position values per revolution 19 bit Product position sensor, position values per revolution 19 colorating voltage of for brake 10 colorating voltage of for brake	CE marking (see declaration of conformity)	
Nominal operating voltage DC Type of Winding switch Star inside Number of pole pairs Standstill torque A5.5 Nm Nominal torque A5.5 Nm Nominal torque A5.5 Nm Nominal torque A5.6 Nm Nominal rotary speed A5.7 Nm Nominal rotary speed A5.7 Nm Nominal rotary speed A5.7 Nm Nominal power rating of motor A6.77 W Continuous stall current A6.77 W Continuous stall current A6.7 Am Nominal power rating of motor A6.77 W Continuous stall current A6.5 A Nominal power rating of motor A6.77 W Continuous stall current A6.5 A Nominal motor current A6.5 A Nominal motor current A6.5 A Nominal power rating of motor A6.77 W Nominal power rating of motor A6.77 W Nominal power rating of motor A6.77 W Nominal motor current A6.5 A Nominal power rating of motor A6.77 W A6.70 Nominal power rating of motor A6.77 W A6.70 Nominal power rating of motor A6.77 W A6.70 Nominal power rating of motor A6.70 Nominal power rating of motor A6.70 Nominal power rating rati		
Type of winding switch Number of pole pairs 5 Standstill torque 45.5 Nm Nominal torque 29 Nm Peak torque 87 Nm Nominal torque 88 Nm Nominal torque 89 Nm Max. rotational speed 34.95 pm Max. rotational speed 36.97 W Mominal bower rating of motor 63.77 W Continuous stall current 23.6 A Nominal motor current 15.4 A Peak current 49.5 A Nominal motor current 15.4 A Peak current 49.5 A Nominal motor current 11.88 Nm/A Standstill torque constant 11.88 Nm/A Standstill torque constant 2.23 Nm/A Voltage constant, phase-to-phase Phase-phase winding resistance 0.25 Ohm Phase-phase winding inductance 4.4 mH Winding cross inductivity Lq (phase) 2.15 mH Winding cross inductivity Lq (phase) 2.25 mH Electric time constant 17.1 ms 18 min Thermal resistance 0.39 K/W Measuring flange 450 X 450 X 30 mm, steel Total mass moment of inertia of output 70.1 kgcm² Product weight 29700 g Permissible radial shart load Rotor position sensor, manufacturer designation 19 City 13 min Protor position sensor, absolute detectable revolutions Rotor position sensor, absolute detectable revolutions Rotor position sensor, position values per revolution 19 City 24 N Portor position sensor, position values per revolution 19 Dit rotor position sensor, position values per revolution 19 Dit rotor position sensor, position values per revolution 19 Dit rotor position sensor, position values per revolution 19 Dit rotor position sensor, position values per revolution 19 Dit rotor position sensor, position values per revolution 19 Dit rotor position sensor, position values per revolution 19 Dit rotor position sensor, position values per revolution 19 Dit rotor position sensor, position values per revolution 19 Dit rotor position sensor, position values per revolution 19 Dit rotor position sensor, position values per revolution 19 Dit rotor position sensor, position values per revolution 19 Dit rotor position sensor, position values per revolution 19 Dit rotor position sensor, position values per revolution 24 V 25 Perake current Consumption 25 Perake holding t	Certificate issuing authority	UL E342973
Number of pole pairs Standstill torque 45.5 Mm Nominal rotque Peak torque 87 Nm Nominal rotary speed 2100 rpm Max. rotational speed 8000 rpm Max. mechanical speed 8000 rpm Max. mechanical speed 8000 rpm Max. mechanical speed 8000 rpm Nominal motor current 23.6 A Continuous stall current 93.6 A Nominal motor current 15.4 A Peak current 49.5 A Motor constant 1.88 Nm/A Standstill torque constant 2.23 Nm/A Voltage constant, phase-to-phase 135.1 mVmin Phase phase winding resistance 0.25 Ohm Phase phase winding inductance 4.4 mH Winding longitudinal inductivity Ld (phase) 2.15 mH Winding cross inductivity Ld (phase) 2.2 mH Electric time constant 15.5 min Thermal time constant 55 min Thermal time constant 70.1 kgcm² Product weight Permissible axial shaft load 274 N Permissible axial shaft load 1370 N Rotor position sensor, absolute detectable revolutions Rotor position sensor, absolute detectable revolutions Rotor position sensor, shock of cereating voltage rotor position sensor, position values per revolution 10 position sensor, bosoliton values per revolution 10 position sensor, position values per revolution 10 position sensor, system accuracy of angle measurement 10 position sensor, by system accuracy of angle measurement 10 position sensor, position sensor, system accuracy of angle measurement 10 position sensor, position sensor, system accuracy of angle measurement 10 position sensor, system accuracy of angle measurement 10 position sensor, system accur	Nominal operating voltage DC	680 V
Standstill torque 45.5 Nm Nominal torque 29 Nm Peak torque 87 Nm Nominal rotary speed 2100 rpm Max. rotational speed 3495 rpm Max. rotational speed 3695 rpm Max. mechanical speed 3695 rpm Mominal rotary speed 2100 rpm Mominal power rating of motor 6377 W Continuous stall current 23.6 A Nominal amotor current 15.4 A Nominal motor current 45.5 A Motor constant 18.8 Nm/A Standstill torque constant 22.3 Nm/A Wotor constant 1.88 Nm/A Standstill torque constant 2.3 Nm/A Woltage constant, phase-to-phase 135.1 mVmin Phase-phase winding resistance 0.25 Ohm Phase-phase winding resistance 4.4 mH Winding ross inductivity Lq (phase) 2.15 mH Winding ross inductivity Lq (phase) 2.15 mH Winding ross inductivity Lq (phase) 2.2 mH Electric time constant 17.1 ms Thermal time constant 55 min Thermal resistance 0.39 K/W Measuring flange 450 x 450 x 30 mm, steel 701 kgcm² Product weight 2970 g Permissible radial shaft load 274 N Permissible radial shaft load 1370 N Rotor position sensor, absolute detectable revolutions 4096 Rotor position sensor, absolute detectable revolutions 4096 Rotor position sensor, absolute detectable revolutions 4096 Rotor position sensor, cocoder measuring principle Inductive 700 position sensor, DC operating voltage range 710 position sensor, position values per revolution 524 Rank 600 position sensor, position values per revolution 524 Rank 600 position sensor, position values per revolution 524 Rank 600 position sensor, position values per revolution 524 Rank 600 position sensor, position values per revolution 524 Rank 600 position sensor, position values per revolution 524 Rank 600 position sensor, position values per revolution 52 Rank 600 position sensor, position values per revolution 52 Rank 600 position sensor, position values per revolution 52 Rank 600 position sensor, position values per revolution 52 Rank 600 position values per revolution 52 Rank 600 position sensor, position values per revolution 52 Rank 600 position values per revolution 52 Rank 600 position values per revolution 52 Rank 600	Type of winding switch	Star inside
Nominal torque 29 Nm Peak torque 87 Nm Nominal rotary speed 2100 rpm Max. rotational speed 3695 rpm Mominal power rating of motor 6377 W Continuous stall current 23.6 A Nominal motor current 15.4 A Peak current 49.5 A Motor constant 1.88 Nm/A Standstill torque constant 2.23 Nm/A Voltage constant, phase-to-phase 135.1 mVmin Phase-phase winding resistance 0.25 Ohm Phase-phase winding inductance 4.4 mH Winding longitudinal inductivity Ld (phase) 2.15 mH Winding longitudinal inductivity Ld (phase) 2.2 mH Electric time constant 17.1 ms Thermal time constant 17.1 ms Thermal time constant 17.1 ms Thermal resistance 0.39 K/W Measuring flange 450 x 450x 30 mm, steel Total mass moment of inertia of output 70.1 kgcm² Product weight 29700 g Permissible axial shaft load 137 n N Rotor position ensorsor	Number of pole pairs	5
Peak torque 87 Nm Nominal rotary speed 2100 rpm Max. rotational speed 8000 rpm Max. mechanical speed 8000 rpm Nominal power rating of motor 6377 W Continuous stall current 22.6 A Nominal motor current 15.4 A Peak current 49.5 A Motor constant 1.88 Nm/A Standstill torque constant 2.23 Nm/A Notor constant 2.23 Nm/A Notor constant 1.88 Nm/A Standstill torque constant 3.15 mVmin Phase-phase winding resistance 0.25 Ohm Phase-phase winding resistance 4.4 mB Winding longitudinal inductivity Ld (phase) 2.15 mB Winding longitudinal inductivity Ld (phase) 2.2 mB Electric time constant 17.1 ms Thermal time constant 17.1 ms Thermal time constant 17.1 ms Thermal time constant 17.7 ms Thermal flange 450 x 450 x 30 mm, steel Total mass moment of inertia of output 70.1 kgcm² Permissible axial shaft load 274 N Permissible radial shaft load 1370 N Rotor position sensor, manufacturer designation EQ1331 rotor position sensor, conder measuring principle Inductive rotor position sensor, position valuege 3 V rotor position sensor, position valuege 3 S V rotor position sensor, position valuege ange as 3 S W14 V rotor position sensor, position valuege ange as 3 S W14 V rotor position sensor, position valuege ange as 3 S W14 V rotor position sensor, position valuege 6 S Nm Rotor position sensor, position valuege 6 S Nm Rotor position sensor, system accuracy of angle measurement 6 S rarsec65 arcsec Brake holding torque 6 Forbrake 24 V Brake current consumption 1.08 A	Standstill torque	45.5 Nm
Nominal rotary speed Max. rotational speed Max. mechanical speed Mominal power rating of motor Continuous stall current 23.6 A Nominal motor current 25.6 A Motor constant 1.88 Nm/A Standstill torque constant Standstill torque constant 2.23 Nm/A Voltage constant, phase-to-phase Phase-phase winding resistance Phase-phase winding inductance Winding ross inductivity Ld (phase) 2.15 mH Winding cross inductivity Ld (phase) 2.2 mH Electric time constant 55 min Thermal time constant Thermal resistance 0.39 K/W Measuring flange 450 x 450 x 30 mm, steel Total mass moment of inertia of output 70.1 kgcm² Product weight 29700 g Permissible axial shaft load 724 N Rotor position sensor Absolute multi-turn encoder rotor position sensor, manufacturer designation rotor position sensor, encoder measuring principle rotor position sensor, encoder measuring principle rotor position sensor, occoder measuring principle rotor	Nominal torque	29 Nm
Max. rotational speed 8000 rpm Nominal power rating of motor 6377 W Continuous stall current 23.6 A Nominal motor current 15.4 A Peak current 49.5 A Motor constant 1.88 Nm/A Standstill torque constant 22.2 Nm/A Voltage constant, phase-to-phase 135.1 mVmin Phase-phase winding resistance 0.25 Ohm Phase-phase winding inductance 4.4 mH Winding longitudinal inductivity Ld (phase) 2.15 mH Winding longitudinal inductivity Ld (phase) 2.2 mH Electric time constant 55 min Thermal time constant 55 min Thermal tries and surface 450 x 450 x 30 mm, steel Total mass moment of inertia of output 70.1 kgcm² Product weight 29700 g Permissible axial shaft load 1370 N Rotor position sensor, ansolute detectable revolutions A096 Rotor position sensor, encoder measuring principle Inductive rotor position sensor, position values per revolution 19 bit rotor position sensor, position values per revolution 19 bit rotor position sensor, position values per revolution 19 bit rotor position sensor, position values per revolution 19 bit rotor position sensor, position values per revolution 19 bit Brake holding torque 65 Nm Operating voltage 0C for brake 24 V Brake current consumption 1.08 A	Peak torque	87 Nm
Max. mechanical speed 8000 rpm Nominal power rating of motor 6377 W Continuous stall current 23.6 A Nominal motor current 15.4 A Peak current 49.5 A Motor constant 1.88 Nm/A Standstill torque constant 2.23 Nm/A Voltage constant, phase-to-phase 135.1 m/vmin Phase-phase winding resistance 0.25 Ohm Phase-phase winding inductance 4.4 mH Winding cross inductivity LQ (phase) 2.15 mH Winding cross inductivity LQ (phase) 2.2 mH Electric time constant 17.1 ms Thermal time constant 55 min Thermal resistance 0.39 K/W Measuring flange 450 x 450 x 30 mm, steel Total mass moment of inertia of output 70.1 kgcm² Premissible axial shaft load 27 k N Permissible axial shaft load 1370 N Rotor position sensor Absolute multi-turn encoder rotor position sensor, absolute detectable revolutions 4096 Rotor position sensor, p. cocder measuring principle Inductive rotor po	Nominal rotary speed	2100 rpm
Nominal power rating of motor Continuous stall current 23.6 A Nominal motor current 25.6 A Nominal motor current 25.6 A Nominal motor current 25.6 A Motor constant 2.88 Nm/A Standstill torque constant 2.23 Nm/A Voltage constant, phase-to-phase 35.1 m/wnin Phase-phase winding resistance 0.25 Ohm Phase-phase winding inductance 4.4 mt Winding longitudinal inductivity Ld (phase) 2.15 mt Winding cross inductivity Lq (phase) 2.2 mt Electric time constant 17.1 ms Thermal time constant 55 min Thermal resistance 0.39 K/W Measuring flange 450 x 450 x 30 mm, steel Total mass moment of inertia of output 70.1 kgcm² Porduct weight 29700 g Permissible axial shaft load 274 N Permissible axial shaft load 370 N Rotor position sensor, absolute detectable revolutions Rotor position sensor, absolute detectable revolutions Rotor position sensor, absolute detectable revolutions Rotor position sensor, DC operating voltage rotor position sensor, DC operating voltage range Rotor position sensor, DC operating voltage range Rotor position sensor, position values per revolution Set access the secure of the security of services and services access the secure of services access and services access access access and services access acces access a	Max. rotational speed	3495 rpm
Continuous stall current 23.6 A Nominal motor current 15.4 A Peak current 49.5 A Motor constant 1.88 Nm/A Standstill torque constant 2.23 Nm/A Voltage constant, phase-to-phase 135.1 mVmin Phase-phase winding resistance 0.25 Ohm Phase-phase winding inductance 4.4 mH Winding longitudinal inductivity Ld (phase) 2.15 mH Winding cross inductivity Ld (phase) 2.2 mH Electric time constant 55 min Thermal time constant 55 min Thermal tresistance 0.39 K/W Measuring flange 450 x 450 x 30 mm, steel Total mass moment of inertia of output 70.1 kgcm² Product weight 29700 g Permissible axial shaft load 1370 N Rotor position sensor, ansunfacturer designation totor position sensor, absolute detectable revolutions 4096 Rotor position sensor, ansunfacturer designation 150 cyposition sensor, cooler measuring principle 150 cyposition sensor, De operating voltage range 150 km. Rotor position sensor, De operating voltage range 150 km. Rotor position sensor, De operating voltage range 150 km. Rotor position sensor, De operating voltage range 150 km. Rotor position sensor, position values per revolution 19 bit 150 km. Rotor position sensor, position values per revolution 19 bit 150 km. Rotor position sensor, position values per revolution 19 bit 150 km. Rotor position sensor, position values per revolution 19 bit 150 km. Rotor position sensor, position values per revolution 19 bit 150 km. Rotor position sensor, position values per revolution 19 bit 150 km. Rotor position sensor, position values per revolution 19 bit 150 km. Rotor position sensor, position values per revolution 19 bit 150 km. Rotor position sensor, position values per revolution 19 bit 150 km. Rotor position sensor, position values per revolution 19 bit 150 km. Rotor position sensor, position values per revolution 19 bit 150 km.	Max. mechanical speed	8000 rpm
Nominal motor current Peak current 49.5 A Motor constant 1.88 Nm/A Standstill torque constant Voltage constant, phase-to-phase Phase-phase winding resistance Phase-phase winding inductance Winding longitudinal inductivity Ld (phase) 2.2 mH Electric time constant Thermal time constant Thermal time constant Thermal resistance 0.39 K/W Measuring flange 450 x 450 x 30 mm, steel Total mass moment of inertia of output 70.1 kgcm² Product weight 29700 g Permissible axial shaft load 274 N Permissible axial shaft load Rotor position sensor, absolute detectable revolutions Rotor position sensor, absolute detectable revolutions Rotor position sensor, nocder measuring principle Inductive rotor position sensor, DC operating voltage rotor position sensor, position values per revolution Source position sensor, system accuracy of angle measurement For perating voltage angle measurement For position sensor, system accuracy of angle measurement For position sensor, optogrape 24 V Brake current consumption 10.8 A	Nominal power rating of motor	6377 W
Peak current Motor constant 1.88 Nm/A Standsfill torque constant 2.23 Nm/A Voltage constant, phase-to-phase 135.1 mVmin Phase-phase winding resistance 0.25 Ohm Phase-phase winding inductance 4.4 mH Winding longitudinal inductivity Ld (phase) 2.15 mH Winding cross inductivity Lq (phase) 2.2 mH Electric time constant 17.1 ms Thermal time constant Thermal resistance 0.39 K/W Measuring flange 450 x 450 x 30 mm, steel Total mass moment of inertia of output 70.1 kgcm² Permissible axial shaft load 274 N Permissible axial shaft load Rotor position sensor, manufacturer designation rotor position sensor, manufacturer designation rotor position sensor, manufacturer designation Rotor position sensor, coder interface EnDat® 22 Rotor position sensor, coder measuring principle Inductive rotor position sensor, position values per revolution Rotor position sensor, position values per revolution Rotor position sensor, system accuracy of angle measurement Brake holding torque Operating voltage 24 V Brake current consumption 1.88 Nm/A 1.89 Nm/A 1.80	Continuous stall current	23.6 A
Motor constant 1.88 Nm/A Standstill torque constant 2.23 Nm/A Voltage constant, phase-to-phase 135.1 m/min Phase-phase winding resistance 0.25 Ohm Phase-phase winding inductance 4.4 mH Winding longitudinal inductivity Ld (phase) 2.15 mH Winding cross inductivity Lq (phase) 2.2 mH Electric time constant 17.1 ms Thermal time constant 55 min Thermal resistance 0.39 K/W Measuring flange 450 x 450 x 30 mm, steel Total mass moment of inertia of output 70.1 kgcm² Permissible axial shaft load 274 N Permissible axial shaft load 80 tor position sensor, absolute detectable revolutions Rotor position sensor, absolute detectable revolutions Rotor position sensor, cooder measuring principle Inductive rotor position sensor, DC operating voltage rotor position sensor, position values per revolution Rotor position transducer resolution 19 bit rotor position transducer resolution Rotor position transducer resolution 19 bit rotor position sensor, system accuracy of angle measurement 65 Nm Operating voltage DC for brake Brake current consumption 1.88 Nm/A 135.1 m/min 135.1 m/min 135.1 m/min 136.2 mH 4.4 mH 4.5 mH	Nominal motor current	15.4 A
Standstill torque constant Voltage constant, phase-to-phase 135.1 mVmin Phase-phase winding resistance 0.25 Ohm Phase-phase winding resistance 4.4 mH Winding longitudinal inductivity Ld (phase) Winding longitudinal inductivity Ld (phase) 2.15 mH Winding cross inductivity Lq (phase) Electric time constant 17.1 ms Thermal time constant 55 min Thermal time constant Thermal resistance 0.39 K/W Measuring flange 450 x 450 x 30 mm, steel Total mass moment of inertia of output Product weight 29700 g Permissible axial shaft load 274 N Permissible axial shaft load 1370 N Rotor position sensor Absolute multi-turn encoder rotor position sensor, anaufacturer designation EQI 1331 rotor position sensor, absolute detectable revolutions Apole Rotor position sensor, encoder measuring principle Inductive rotor position sensor, DC operating voltage 5 V rotor position sensor, DC operating voltage 700 rotor position sensor, position values per revolution 19 bit Portating voltage DC for brake Brake holding torque Operating voltage DC for brake Brake current consumption 1.08 A	Peak current	49.5 A
Voltage constant, phase-to-phase Phase-phase winding resistance Phase-phase winding inductance A.4 mH Winding longitudinal inductivity Ld (phase) 2.15 mH Winding cross inductivity Lq (phase) 2.2 mH Electric time constant 17.1 ms Thermal time constant Thermal time constant Thermal resistance 0.39 K/W Measuring flange 450 x 450 x 30 mm, steel Total mass moment of inertia of output 70.1 kgcm² Product weight 29700 g Permissible axial shaft load 274 N Permissible radial shaft load 370 N Rotor position sensor, manufacturer designation Fotor position sensor, absolute detectable revolutions Rotor position sensor, encoder measuring principle Inductive rotor position sensor, DC operating voltage St V rotor position sensor, DC operating voltage range 3.6 V14 V Servales Position sensor, system accuracy of angle measurement Fotor position sensor, system accuracy of angle measurement For porating voltage DC for brake Frake Current consumption Foration sensor, DC operating voltage Forating voltage DC for brake Frake Current consumption Forating voltage DC for brake Frake Current consumption Forating voltage DC for brake Frake Current consumption Forating voltage DC for brake Frake Longuage PC for Longuage PC for brake Frake Longuage PC for Longua	Motor constant	1.88 Nm/A
Phase-phase winding resistance Phase-phase winding inductance 4.4 mH Winding longitudinal inductivity Ld (phase) 2.15 mH Winding rorss inductivity Ld (phase) 2.2 mH Electric time constant 17.1 ms Thermal time constant Thermal time constant Thermal resistance 0.39 K/W Measuring flange 450 x 450 x 30 mm, steel Total mass moment of inertia of output 70.1 kgcm² Product weight 29700 g Permissible axial shaft load 274 N Permissible axial shaft load 1370 N Rotor position sensor, manufacturer designation rotor position sensor, absolute detectable revolutions 4096 Rotor position encoder interface EnDat@ 22 Rotor position sensor, DC operating voltage rotor position sensor, DC operating voltage range 3.6 V14 V rotor position sensor, system accuracy of angle measurement Face Brake holding torque GP Farake Current consumption LOSA ABROLLEM ABROLLE	Standstill torque constant	2.23 Nm/A
Phase-phase winding inductance 4.4 mH Winding longitudinal inductivity Ld (phase) 2.15 mH Winding cross inductivity Lq (phase) 2.2 mH Electric time constant 17.1 ms Thermal time constant 55 min Thermal resistance 0.39 K/W Measuring flange 450 x 450 x 30 mm, steel Total mass moment of inertia of output 70.1 kgcm² Product weight 29700 g Permissible axial shaft load 274 N Permissible radial shaft load 1370 N Rotor position sensor Absolute multi-turn encoder rotor position sensor, manufacturer designation EQI 1331 rotor position encoder interface EnDat® 22 Rotor position sensor, encoder measuring principle Inductive rotor position sensor, DC operating voltage range 5 V rotor position sensor, DC operating voltage range 765 arcsec65 arcsec Brake holding torque Operating voltage DC for brake Brake current consumption 1.08 A	Voltage constant, phase-to-phase	135.1 mVmin
Winding longitudinal inductivity Ld (phase) 2.2 mH Electric time constant 17.1 ms Thermal time constant 55 min Thermal resistance 0.39 K/W Measuring flange 450 x 450 x 30 mm, steel Total mass moment of inertia of output 70.1 kgcm² Product weight 29700 g Permissible axial shaft load 274 N Permissible radial shaft load Rotor position sensor, manufacturer designation rotor position sensor, absolute detectable revolutions Rotor position sensor, encoder measuring principle rotor position sensor, DC operating voltage rotor position sensor, DC operating voltage range rotor position sensor, DC operating voltage range Rotor position sensor, position values per revolution Rotor position sensor, system accuracy of angle measurement 65 Nm Operating voltage DC for brake Brake current consumption 2.10 mH 17.1 ms 17.1 ms 17.1 ms 17.1 ms 17.	Phase-phase winding resistance	0.25 Ohm
Winding cross inductivity Lq (phase) Electric time constant Thermal time constant Thermal resistance 0.39 K/W Measuring flange 450 x 450 x 30 mm, steel Total mass moment of inertia of output 70.1 kgcm² Product weight 29700 g Permissible axial shaft load 274 N Permissible axial shaft load 3370 N Rotor position sensor Absolute multi-turn encoder rotor position sensor, manufacturer designation rotor position sensor, absolute detectable revolutions Rotor position sensor, encoder measuring principle Rotor position sensor, p. Co operating voltage rotor position sensor, DC operating voltage rotor position sensor, p. Sition values per revolution Rotor position transducer resolution Rotor position transducer resolution 19 bit rotor position transducer resolution Poperating voltage DC for brake Brake holding torque 1008	Phase-phase winding inductance	4.4 mH
Electric time constant Thermal time constant Thermal time constant Thermal resistance 0.39 K/W Measuring flange 450 x 450 x 30 mm, steel Total mass moment of inertia of output 70.1 kgcm² Product weight 29700 g Permissible axial shaft load 274 N Permissible radial shaft load 1370 N Rotor position sensor Absolute multi-turn encoder rotor position sensor, manufacturer designation EQI 1331 rotor position sensor, absolute detectable revolutions 4096 Rotor position sensor, encoder measuring principle Inductive rotor position sensor, encoder measuring principle rotor position sensor, DC operating voltage 5 V rotor position sensor, DC operating voltage rotor position sensor, position values per revolution 524288 Rotor position transducer resolution 19 bit rotor position sensor, system accuracy of angle measurement 65 arcsec65 arcsec Brake holding torque 65 Nm Operating voltage DC for brake Brake current consumption 1.08 A	Winding longitudinal inductivity Ld (phase)	2.15 mH
Thermal time constant Thermal resistance 0.39 K/W Measuring flange 450 x 450 x 30 mm, steel Total mass moment of inertia of output 70.1 kgcm² Product weight 29700 g Permissible axial shaft load 274 N Permissible radial shaft load Rotor position sensor Absolute multi-turn encoder rotor position sensor, absolute detectable revolutions Rotor position sensor, absolute detectable revolutions Rotor position sensor, encoder measuring principle Inductive rotor position sensor, DC operating voltage rotor position sensor, DC operating voltage so V rotor position sensor, position values per revolution Source position transducer resolution 19 bit rotor position sensor, system accuracy of angle measurement 65 Nm Operating voltage DC for brake Brake holding torque Operating voltage DC for brake Brake current consumption	Winding cross inductivity Lq (phase)	2.2 mH
Thermal resistance 0.39 K/W Measuring flange 450 x 450 x 30 mm, steel Total mass moment of inertia of output 70.1 kgcm² Product weight 29700 g Permissible axial shaft load 274 N Permissible radial shaft load 1370 N Rotor position sensor Absolute multi-turn encoder rotor position sensor, manufacturer designation EQI 1331 rotor position sensor, absolute detectable revolutions Rotor position sensor, absolute measuring principle Inductive Rotor position sensor, DC operating voltage rotor position sensor, DC operating voltage range 3.6 V14 V rotor position sensor, position values per revolution 19 bit rotor position sensor, system accuracy of angle measurement 65 arcsec65 arcsec Brake holding torque 65 Nm Operating voltage DC for brake Brake current consumption 1.08 A	Electric time constant	17.1 ms
Measuring flange 450 x 450 x 30 mm, steel Total mass moment of inertia of output 70.1 kgcm² 29700 g Permissible axial shaft load 274 N Permissible radial shaft load 870 N Rotor position sensor Absolute multi-turn encoder rotor position sensor, manufacturer designation EQI 1331 rotor position sensor, absolute detectable revolutions Rotor position sensor, encoder interface EnDat® 22 Rotor position sensor, DC operating voltage Fotor position sensor, DC operating voltage Solv14 V Fotor position sensor, position values per revolution 9 bit rotor position transducer resolution 19 bit Fotor position sensor, system accuracy of angle measurement Fotor position sensor, system accuracy of angle measurement Fotor porating voltage DC for brake Fake current consumption 1.08 A	Thermal time constant	55 min
Total mass moment of inertia of output 70.1 kgcm² Product weight 29700 g Permissible axial shaft load 274 N Permissible radial shaft load Rotor position sensor rotor position sensor, manufacturer designation rotor position sensor, absolute detectable revolutions Rotor position encoder interface Rotor position sensor, encoder measuring principle Rotor position sensor, DC operating voltage 5 V rotor position sensor, DC operating voltage range 3.6 V14 V rotor position sensor, position values per revolution 524288 Rotor position transducer resolution 19 bit rotor position sensor, system accuracy of angle measurement 65 arcsec65 arcsec Brake holding torque Operating voltage DC for brake Brake current consumption 1.08 A	Thermal resistance	0.39 K/W
Product weight 29700 g Permissible axial shaft load 274 N Permissible radial shaft load 1370 N Rotor position sensor Absolute multi-turn encoder rotor position sensor, manufacturer designation EQI 1331 rotor position sensor, absolute detectable revolutions 4096 Rotor position encoder interface EnDat® 22 Rotor position sensor, encoder measuring principle Inductive rotor position sensor, DC operating voltage 5 V rotor position sensor, position values per revolution 524288 Rotor position transducer resolution 19 bit rotor position sensor, system accuracy of angle measurement 65 nrsecc Brake holding torque 65 Nm Operating voltage DC for brake 24 V Brake current consumption 1.08 A	Measuring flange	450 x 450 x 30 mm, steel
Permissible axial shaft load Permissible radial shaft load Rotor position sensor Absolute multi-turn encoder rotor position sensor, manufacturer designation EQI 1331 rotor position sensor, absolute detectable revolutions Rotor position encoder interface EnDat® 22 Rotor position sensor, encoder measuring principle Inductive rotor position sensor, DC operating voltage 5 V rotor position sensor, DC operating voltage 3.6 V14 V rotor position sensor, position values per revolution 524288 Rotor position transducer resolution 19 bit rotor position sensor, system accuracy of angle measurement 65 arcsec65 arcsec Brake holding torque Operating voltage DC for brake 24 V Brake current consumption 1.08 A	Total mass moment of inertia of output	70.1 kgcm ²
Permissible radial shaft load Rotor position sensor Rotor position sensor, manufacturer designation rotor position sensor, absolute detectable revolutions Rotor position encoder interface Rotor position sensor, encoder measuring principle Rotor position sensor, DC operating voltage rotor position sensor, DC operating voltage range rotor position sensor, position values per revolution Source of position transducer resolution Rotor position sensor, system accuracy of angle measurement For arcsec65 arcsec Brake holding torque Operating voltage DC for brake 1.08 A	Product weight	29700 g
Rotor position sensor Absolute multi-turn encoder rotor position sensor, manufacturer designation EQI 1331 rotor position sensor, absolute detectable revolutions Rotor position encoder interface EnDat® 22 Rotor position sensor, encoder measuring principle Inductive rotor position sensor, DC operating voltage rotor position sensor, DC operating voltage range 3.6 V14 V rotor position sensor, position values per revolution 524288 Rotor position transducer resolution 19 bit rotor position sensor, system accuracy of angle measurement -65 arcsec65 arcsec Brake holding torque Operating voltage DC for brake 24 V Brake current consumption 1.08 A	Permissible axial shaft load	274 N
rotor position sensor, manufacturer designation rotor position sensor, absolute detectable revolutions Rotor position encoder interface Rotor position sensor, encoder measuring principle rotor position sensor, DC operating voltage rotor position sensor, DC operating voltage range rotor position sensor, position values per revolution Selection transducer resolution rotor position sensor, system accuracy of angle measurement Pake holding torque Operating voltage DC for brake 1.08 A	Permissible radial shaft load	1370 N
rotor position sensor, absolute detectable revolutions Rotor position encoder interface Rotor position sensor, encoder measuring principle Inductive rotor position sensor, DC operating voltage rotor position sensor, DC operating voltage range 3.6 V14 V rotor position sensor, position values per revolution 524288 Rotor position transducer resolution 19 bit rotor position sensor, system accuracy of angle measurement -65 arcsec65 arcsec Brake holding torque 65 Nm Operating voltage DC for brake 24 V Brake current consumption 1.08 A	Rotor position sensor	Absolute multi-turn encoder
Rotor position encoder interface Rotor position sensor, encoder measuring principle Inductive rotor position sensor, DC operating voltage rotor position sensor, DC operating voltage range 3.6 V14 V rotor position sensor, position values per revolution 524288 Rotor position transducer resolution 19 bit rotor position sensor, system accuracy of angle measurement -65 arcsec65 arcsec Brake holding torque 65 Nm Operating voltage DC for brake 24 V Brake current consumption 1.08 A	rotor position sensor, manufacturer designation	EQI 1331
Rotor position sensor, encoder measuring principle rotor position sensor, DC operating voltage rotor position sensor, DC operating voltage range 3.6 V14 V rotor position sensor, position values per revolution 524288 Rotor position transducer resolution 19 bit rotor position sensor, system accuracy of angle measurement 65 arcsec65 arcsec Brake holding torque 65 Nm Operating voltage DC for brake 24 V Brake current consumption 1.08 A	rotor position sensor, absolute detectable revolutions	4096
rotor position sensor, DC operating voltage rotor position sensor, DC operating voltage range 3.6 V14 V rotor position sensor, position values per revolution 524288 Rotor position transducer resolution 19 bit rotor position sensor, system accuracy of angle measurement -65 arcsec65 arcsec Brake holding torque 65 Nm Operating voltage DC for brake 24 V Brake current consumption 1.08 A	Rotor position encoder interface	EnDat® 22
rotor position sensor, DC operating voltage range 3.6 V14 V rotor position sensor, position values per revolution 524288 Rotor position transducer resolution 19 bit rotor position sensor, system accuracy of angle measurement -65 arcsec65 arcsec Brake holding torque 65 Nm Operating voltage DC for brake 24 V Brake current consumption 1.08 A	Rotor position sensor, encoder measuring principle	Inductive
rotor position sensor, position values per revolution 524288 Rotor position transducer resolution 19 bit rotor position sensor, system accuracy of angle measurement -65 arcsec65 arcsec Brake holding torque 65 Nm Operating voltage DC for brake 24 V Brake current consumption 1.08 A	rotor position sensor, DC operating voltage	5 V
Rotor position transducer resolution 19 bit rotor position sensor, system accuracy of angle measurement -65 arcsec65 arcsec Brake holding torque 65 Nm Operating voltage DC for brake 24 V Brake current consumption 1.08 A	rotor position sensor, DC operating voltage range	3.6 V14 V
rotor position sensor, system accuracy of angle measurement -65 arcsec65 arcsec Brake holding torque 65 Nm Operating voltage DC for brake 24 V Brake current consumption 1.08 A	rotor position sensor, position values per revolution	524288
Brake holding torque 65 Nm Operating voltage DC for brake 24 V Brake current consumption 1.08 A	Rotor position transducer resolution	19 bit
Operating voltage DC for brake 24 V Brake current consumption 1.08 A	rotor position sensor, system accuracy of angle measurement	-65 arcsec65 arcsec
Brake current consumption 1.08 A	Brake holding torque	65 Nm
·	Operating voltage DC for brake	24 V
Power consumption, brake 26 W	Brake current consumption	1.08 A
	Power consumption, brake	26 W

Feature	Value
Brake separation time	200 ms
Brake closing time	40 ms
DC brake response delay	10 ms
Max. brake no-load speed	8000 rpm
Mass moment of inertia of brake	12.5 kgcm ²
Switching cycles holding brake	5 million idle actuations (without friction work!)
Mean time to failure (MTTF), subcomponent	190 years, rotor position sensor
Energy efficiency	ENEFF (CN) / Class 1