Part number: 5255532



## **Data sheet**

Feature	Value
Ambient temperature	-15 °C40 °C
Note on ambient temperature	Up to 80 °C with derating of -1.5% per degree Celsius
Max. installation height	4000 m
Information on max. installation height	with 1,000 m and longer only with derating of -1.0% per 100 m
Storage temperature	-20 °C70 °C
Relative air humidity	0 - 90 %
Conforms to standard	IEC 60034
Thermal class according to EN 60034-1	F
Max. winding temperature	155 ℃
Rating class according to EN 60034-1	S1
Temperature monitoring	Digital motor temperature transmission via EnDat® 2.2
Motor type as per EN 60034-7	IM B5 IM V1 IM V3
Mounting position	Any
Degree of protection	IP40
Note on degree of protection	IP40 for motor shaft without rotary shaft seal IP65 for motor shaft with rotary shaft seal IP67 for motor housing, incl. connection technology
Concentricity, coaxiality, axial runout according to DIN SPEC 42955	N
Balancing quality	G 2.5
Detent torque	< 1.0% of peak torque
Bearing lifetime, under nominal conditions	20000 h
Interface code, motor out	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
LABS (PWIS) conformity	VDMA24364 zone III
Vibration resistance	Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6

Shock rest with sewinty level 2 as per FN 94/2017-5 and FN 60068-2-27 Certification Certification Certification Certification Certification Certification Certification Certification Certificate insuring authority Certificate insuring authority UKEA marking Gee declaration of conformity) To UK 6005 Instructions for EMC To UK 6005 Instructions To UK instructions for EMC To UK 6005 Instructions To UK instructions for EMC To UK 6005 Instructions To UK instructions for EMC To UK 6005 Instructions To UK instructions for EMC To UK 6005 Instructions To UK instructions for Emctor To UK 6005 Instruction for Emctor To UK 6005 Instructions for Emctor To UK 6005 Instruction for Emctor To UK	Feature	Value
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CE marking (See declaration of conformity)  A per EU RMC directive As per EU RMC directive Country In C	Certification	
As per EU now voltage directive As per EU now voltage directive UKCA marking (see declaration of conformity)  To UK instructions for EMC To UK instructions for EMC To UK instructions for electrical equipment  Certificate issuing authority  UL 534/97/3  Nominal operating voltage DC O80 V  Type of winding switch Star inside  Number of pole pairs S SSIAI torque BA Num Nominal storque BA Num BA Num Nominal storque BA Num BA Nu		
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To UK ROTH Instructions   To UK ROTH Instructions for electrical equipment		
To UK instructions for electrical equipment  Certificate issuing authority  Nominal operating voltage DC  880 V  Type of winding switch  Star inside  Nominal operating voltage DC  860 V  Type of winding switch  Star inside  Nominal torque  8.6 Nin  Nominal torque  6.3 Nim  Peak torque  22.4 Nim  Nominal rotary speed  2700 1/min  Max. rechanical speed  4790 1/min  Max. rechanical speed  4790 1/min  Motor nominal speed  4390 1/min  Motor nominal qurent  5.9 A  Motor nominal current  4.3 A  Peak current  7.170 W  Continuous stall current  4.3 A  Peak current  1.46 Nim/A  Notor constants  1.46 Nim/A  Voltage constant, phase-to-phase  1.00 m/min  Phase-phase winding resistrance  1.46 A Nim  Winding inductance phase-phase  Winding ingitudinal inductivity Ld (phase)  1.0.2 mid  Cross inductivity Ld (phase)  1.0.2 mid  Cross inductivity Ld (phase)  1.0.3 mid  Electric time constant  1.6.6 ms  Thermal interiance  1.6.6 ms  Thermal interiance  1.6.7 mid  Measuring llange  300 x 300 x 20 mm, steel  Total output inertia moment  73 min  Thermal resistrance  1.50 x K/W  Measuring llange  1.50 x K/W  Measuring lla	UKCA marking (see declaration of conformity)	
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Type of winding switch Number of pole pairs 5 Start Intrague 8.6 Nm Nominal torque 6.3 Nm Peak torque 720 1/min Max. rotational speed 4790 1/min Motor nominal power 4770 W Continuous stall current 5.9 A 4.3 A Peack current 4.3 A Peack current 4.3 A Motor constant 4.3 A Peack current 4.4 A Motor constants 4.6 Nm/A Standatill torque constant 4.6 Nm/A Motorational indepressionance 4.0 Mm Winding inductance phase to phase 4.0 Mm Winding inductance phase phase 4.0 A mH Winding inductance ph		
Stall torque		
Stall torque		
Nominal torque   S.3 Nm     Peak torque   22.4 Nm     Max. rotational speed   4790 1/min     Max. metanical speed   13000 1/min     Max. metanical speed   13000 1/min     Motor nominal power   1770 W     Continuous stall current   5.9 A     Motor nominal current   4.3 A     Peak current   22.1 A     Motor constant   1.66 Nm/A     Standstill torque constant   1.66 Nm/A     Standstill torque constant   1.66 Nm/A     Vollage constant, phase-to-phase     Homework phase   100 m/min     Winding inductance phase-phase   100 m/min     Winding inductance phase-phase   10.2 mH     Coros inductivity to (phase)   15.3 mH     Electric time constant   16.6 ms     Thermal time constant   27 min     Thermal resistance   30 x 300 x 20 mm, steel     Total output inertia moment   5.34 kgcm²     Preduct weight   8200 g     Premissible axial shaft load   200 N     Premissible radial shaft load   1110 N     Rotor position sensor for manufacturer designation   El 1319     Rotor position sensor interface   En Dates   22 x 22 x 22 x 23 x 24 x 24 x 24 x 24 x		
Peak torque         22.4 Nm           Nominal rotary speed         2700 1/min           Max. rotational speed         13000 1/min           Max. mechanical speed         13000 1/min           Motor nominal power         1770 W           Continuous stall current         5.9 A           Motor constants         6.3 A           Peak current         22.1 A           Motor constants         1.46 Nm/A           Standstill torque constant         1.66 Nm/A           Voltage constant, phase-to-phase         100 mVmin           Phase-phase winding resistance         1.84 Ohm           Winding inductance phase-phase         2.04 Mm           Winding glongitudinal inductivity Ld (phase)         10.2 mH           Cross inductivity Lq (phase)         15.3 mH           Electric time constant         1.66 ms           Thermal tresistance         0.5 K/W           Measuring flange         300 x 300 x 20 mm, steel           Total output inertia moment         5.34 kgcm²           Product weight         8200 g           Permissible axial shaft load         110 N           Rotor position sensor or manufacturer designation         ECI 1319           Rotor position sensor interface         Enaba@ 22           Rotor posit	,	
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Max. rotational speed 1700 l/min   Max. mechanical speed 13000 1/min   Max. mechanical speed 13000 1/min   Motor nominal power 1770 W   Continuous stall current 5.9 A   Motor nominal current 4.3 A   Peak current 22.1 A   Motor constants 1.46 Nm/A   Standstill torque constant 1.66 Nm/A   Voltage constant, phase-to-phase 100 m/min   Phase-phase winding resistance 1.84 Ohm   Winding inductance phase-phase 20.4 mH   Winding inductance phase-phase 20.5 mH   Winding inductance phase-phase 20.5 mH   Winding inductivity Lq (phase) 15.3 mH   Electric time constant 73 min   Thermal resistance 0.5 K/W   Measuring flange 300 x 300 x 20 mm, steel   Total output inertia moment 5.34 kgcm²   Product weight 8200 g   Permissible axial shaft load 200 N   Permissible axial shaft load 1110 N   Rotor position sensor femanufacturer designation El 1319   Rotor position sensor interface Entor principle Inductive Source Sour	· ·	
Max. mechanical speed         13000 1/min           Motor nominal power         1770 W           Continuous stall current         5.9 A           Motor constants         2.1 A           Motor constants         1.46 Nm/A           Standstill torque constant         1.66 Nm/A           Voltage constant, phase-to-phase         100 mVmin           Phase-phase winding resistance         1.84 Ohm           Winding inductance phase-phase         20.4 mH           Winding longitudial inductivity Ld (phase)         10.2 mH           Cross inductivity Lq (phase)         15.3 mH           Electric time constant         1.6.6 ms           Thermal time constant         73 min           Thermal time constant         73 min           Thermal time constant         73 min           Thermal resistance         0.5 k/W           Measuring flange         300 x 300 x 20 mm, steel           Total output inertia moment         5.34 kgcm²           Product weight         8200 g           Permissible radial shaft load         110 N           Rotor position sensor         Absolute encoder, single-turn           Rotor position sensor for manufacturer designation         ECI 1319           Rotor position sensor interface         EnDat© 22	, ·	· · ·
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Motor constants  1.46 Nm/A  Standstill torque constant  1.66 Nm/A  Voltage constant, phase-to-phase  1.00 m/min  Phase-phase winding resistance  1.84 Ohm  Winding inductance phase-phase  20.4 mH  Winding longitudinal inductivity Ld (phase)  10.2 mH  Cross inductivity Lq (phase)  15.3 mH  Electric time constant  16.6 ms  Thermal time constant  Thermal resistance  0.5 K/W  Measuring flange  300 x 300 x 20 mm, steel  Total output inertia moment  5.34 kgcm²  Product weight  8200 g  Permissible axial shaft load  200 N  Permissible axial shaft load  1110 N  Rotor position sensor for manufacturer designation  ECI 1319  Rotor position sensor for manufacturer designation  ECI 1319  Rotor position sensor for manufacturer designation  ECI 1319  Rotor position sensor interface  Rotor position sensor interface  Rotor position sensor measuring principle  Rotor position encoder for absolutely detectable revolutions  Attor position encoder for DC operating voltage  Rotor position encoder for DC operating voltage range  Rotor position encoder for D Coperating voltage range  Rotor position encoder for positional values per revolution  Solution sensor resolution  Rotor position encoder for positional values per revolution  Rotor position encoder for positional values per revolution  Rotor position encoder system accuracy angle measurement  65 arcsec65 arcsec.  65 arcsec65 arcsec.  675 A  Brake Doloreating voltage  Rotor position encoder system accuracy angle measurement  675 arcsec65 arcsec.  675 A  Brake coli resistance  20 Ohm		
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Rotor position encoder for absolutely detectable revolutions  Rotor position sensor interface  Rotor position sensor measuring principle  Rotor position encoder for DC operating voltage  Rotor position encoder for DC operating voltage  Rotor position encoder for DC operating voltage range  Rotor position encoder for positional values per revolution  S24288  Rotor position sensor resolution  Rotor position encoder system accuracy angle measurement  Rotor position encoder for DC operating voltage  Rotor position encoder for DC operating voltage  Rotor position encoder for DC operating voltage and voltage  Rotor position encoder for DC operating voltage  11 Nm  Rotor position encoder for DC operating voltage  24 V  Rotor position encoder for DC operating voltage  24 V  Rotor position encoder for DC operating voltage  Rotor position encoder for DC operating voltage  24 V  Rotor position encoder for DC operating voltage  Rotor position encoder for DC operating voltage  12 Nm  Rotor position encoder for DC operating voltage  13 Nm  Rotor position encoder for DC operating voltage  14 Nm  Rotor position encoder system accuracy angle measurement  15 August 20 Nm  Rotor position encoder system accuracy angle measurement  16 August 20 Nm  Rotor position encoder system accuracy angle measurement  17 Nm  Rotor position encoder system accuracy angle measurement  18 Nm  Rotor position encoder system accuracy angle measurement  18 Nm  Rotor position encoder	·	, <u> </u>
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Brake DC operating voltage 24 V  Brake current consumption 0.75 A  Brake power consumption 18 W  Brake coil resistance 32 Ohm	, , , , , , , , , , , , , , , , , , , ,	11 Nm
Brake current consumption 0.75 A  Brake power consumption 18 W  Brake coil resistance 32 Ohm		
Brake power consumption 18 W Brake coil resistance 32 Ohm	<u> </u>	0.75 A
Brake coil resistance 32 Ohm	Brake power consumption	18 W
Brake coil inductivity 900 mH	Brake coil resistance	32 Ohm
	Brake coil inductivity	900 mH

Feature	Value
Brake separation time	80 ms
Brake closing time	20 ms
DC brake response delay	4 ms
Max. brake no-load speed	10000 1/min
Max. brake friction work	12000 J
Brake mass moment of inertia	0.74 kgcm²
Switching cycles, holding brake	10 million idle actuations (without friction work!)
MTTF, subcomponent	190 years, rotor position sensor
Energy efficiency	ENEFF (CN) / Class 2