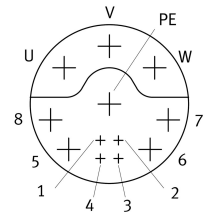


Part number: 8215354

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Feature	Value
Ambient temperature	-30 °C...40 °C
Note on ambient temperature	Up to 80°C with derating of -1.5% per degree Celsius
Max. installation height	3000 m
Note on max. installation height	As of 1,000 m: only with derating of -1.0% per 100 m
Storage temperature	-20 °C...70 °C
Relative air humidity	0 - 100%
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 B14 IM V18
Mounting position	optional
Degree of protection	IP69K
Concentricity, coaxiality, axial runout to DIN SPEC 42955	N
Balance quality	G 2.5
Detent torque	<1.0% of peak torque
Bearing lifetime under nominal conditions	20000 h
Interface code, motor out	88C
Electrical connection 1, connection type	Hybrid plug
Electrical connection 1, connector system	M17x0.75
Electrical connection 1, number of connections/cores	15
Pollution degree	2
Note on materials	RoHS-compliant
Corrosion resistance class CRC	4 - Very high corrosion stress (except laser marking)
LABS (PWIS) conformity	VDMA24364 zone III
Suitable for use with food	Approved for direct contact with food
Vibration resistance	As per EN 60068-2-6

Feature	Value
Shock resistance	As per EN 60068-2-29 15 g/11 ms to EN 60068-2-27
Approval	RCM trademark
CE mark (see declaration of conformity)	To EU EMC Directive To EU Low Voltage Directive In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions To UK regulations for electrical equipment
Nominal operating voltage DC	680 V
Type of winding switch	Star inside
Number of pole pairs	5
Standstill torque	3.95 Nm
Nominal torque	1.9 Nm
Peak torque	14.3 Nm
Nominal rotary speed	3100 rpm
Max. rotational speed	8000 rpm
Max. mechanical speed	8000 rpm
Angular acceleration	100000 rad/s ²
Nominal power rating of motor	620 W
Continuous stall current	4.8 A
Nominal motor current	2.5 A
Peak current	16.5 A
Motor constant	0.79 Nm/A
Standstill torque constant	0.83 Nm/A
Voltage constant, phase-to-phase	55.3 mVmin
Phase-phase winding resistance	1.8 Ohm
Phase-phase winding inductance	7.1 mH
Winding longitudinal inductivity Ld (phase)	3.5 mH
Winding cross inductivity Lq (phase)	3.9 mH
Electric time constant	3.9 ms
Thermal time constant	62 min
Thermal resistance	1.01 K/W
Measuring flange	300 x 300 x 30 mm, steel
Mass moment of inertia of rotor	2.09 kgcm ²
Total mass moment of inertia of output	2.09 kgcm ²
Product weight	6000 g
Permissible axial shaft load	86 N
Permissible radial shaft load	430 N
Rotor position sensor	Absolute multi-turn encoder
rotor position sensor, manufacturer designation	EQI 1131
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, DC operating voltage range	3.6 V...14 V
rotor position sensor, position values per revolution	524288
Rotor position transducer resolution	19 bit
rotor position sensor, system accuracy of angle measurement	-120 arcsec...120 arcsec
Mean time to failure (MTTF), subcomponent	190 years, rotor position sensor