

Engineering data (WIN -100096)

DC bus voltage	54 V DC
Nominal AC voltage	38 V AC (rms)
Rated voltage	34 V AC (rms)
Rated power	2.4 kW
Rated speed	2500 rpm
Rated torque	9.20 Nm
Rated current	48.46 A (rms)
Peak torque	31.5 Nm
Peak current	277.74 A (rms)
Stall torque	11.6 Nm
Stall current	58.44 A (rms)
No load speed	3160 rpm
EMF constant ±10%	12 V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.2 Nm / A (rms)
Torque constant ±10% @ rated load	0.2 Nm / A (rms)
Number of poles	10
Electrical time constant	8.33 ms
Winding terminal resistance	0.024 Ω
Rotary field terminal inductance	0.2 mH

Customs info

HS Code	85015220
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Mechanical data (setting 30)

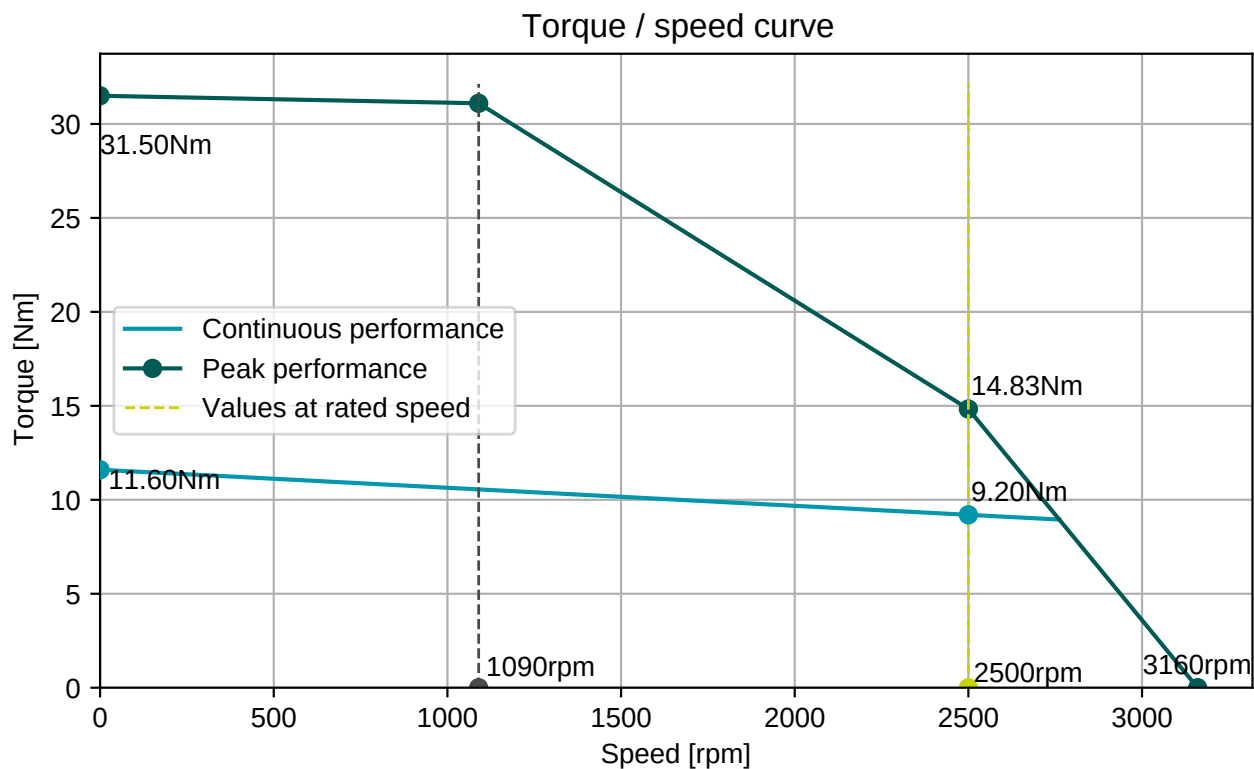
Max mechanical speed	9000 rpm
Mech. time constant	0.89 ms
Thermal time constant	40 min
Rotor inertia	8.4 kgcm ²
Protection	IP65
Color	EPOX3 (RAL 9005)
Cooling	Convection

Sensors

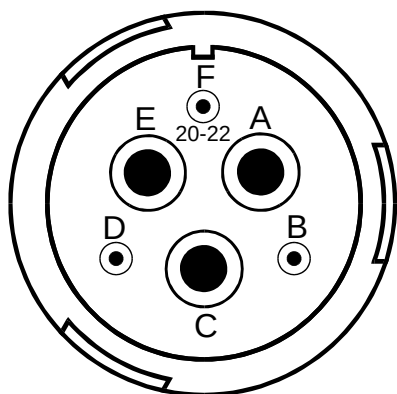
Temperature	UP72T150-140C {UP72T150-140C Uchiya}
Feedback	AD36/1222AF.0CBEB (Biss-C, multi-turn 12+22 bits, 5VDC)

Brake

Braking torque	8.00 Nm
Voltage	24 V DC
Power @20°C	23.0 W
Current @20°C	0.97 A
Inertia	0.18 kgcm ²
Mass	0.75 kg



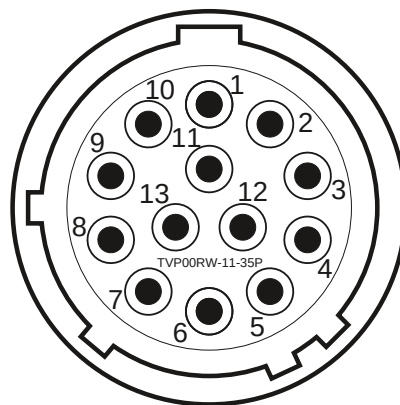
CA3102E20-22P-B-F80-A232



Connector 1 (468)

A	U
C	V
E	W
F	PE
B	Brake+
D	Brake-

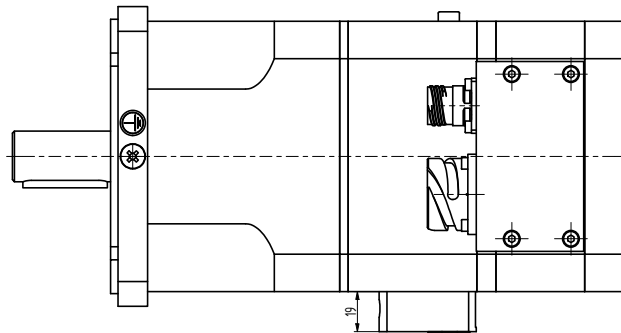
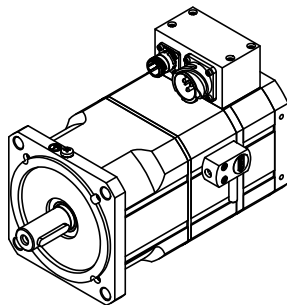
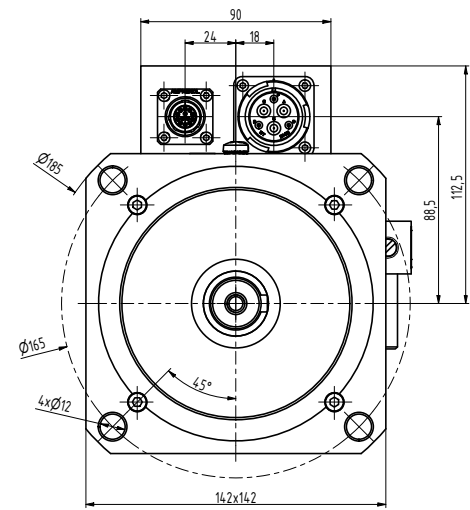
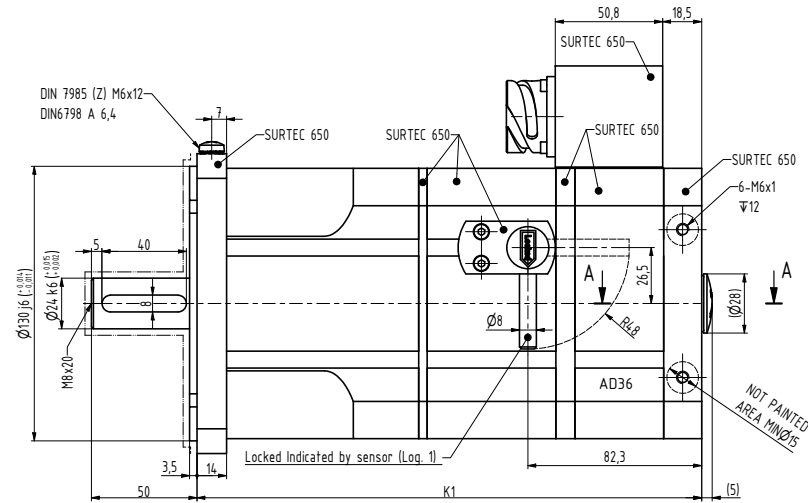
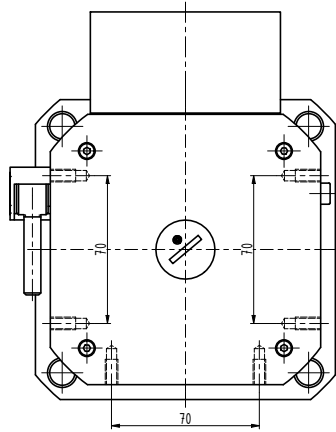
D38999/20ZB35PN



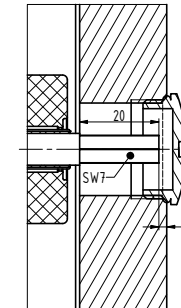
Connector 2 (551)

1	Vcc
2	GND
3	DATA+
4	DATA-
5	CLOCK+
6	CLOCK-
7	Therm+
8	Therm-
11	BRK_SNS_Up (5-30 VDC)
12	BRK_SNS_GND
13	BRK_SNS_HALL

Stainless steel screws min. A2-70 on unpainted parts
All screws secured



A-A



TYP	K1
M5-0650	239
M5-1050	269

IND		CHANGE	DATE	NAME	MATERIAL		
PROJECTION		DRAW		NAME	DATE		
NON-TOLERANCED DIMENSIONS		APPROVED		NAME	DATE		
ISO 2768-mK		REDAWN		NAME	DATE		
Motor M5		M5145 16 BP Z		REVISION		SHEET	
						1/1	