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

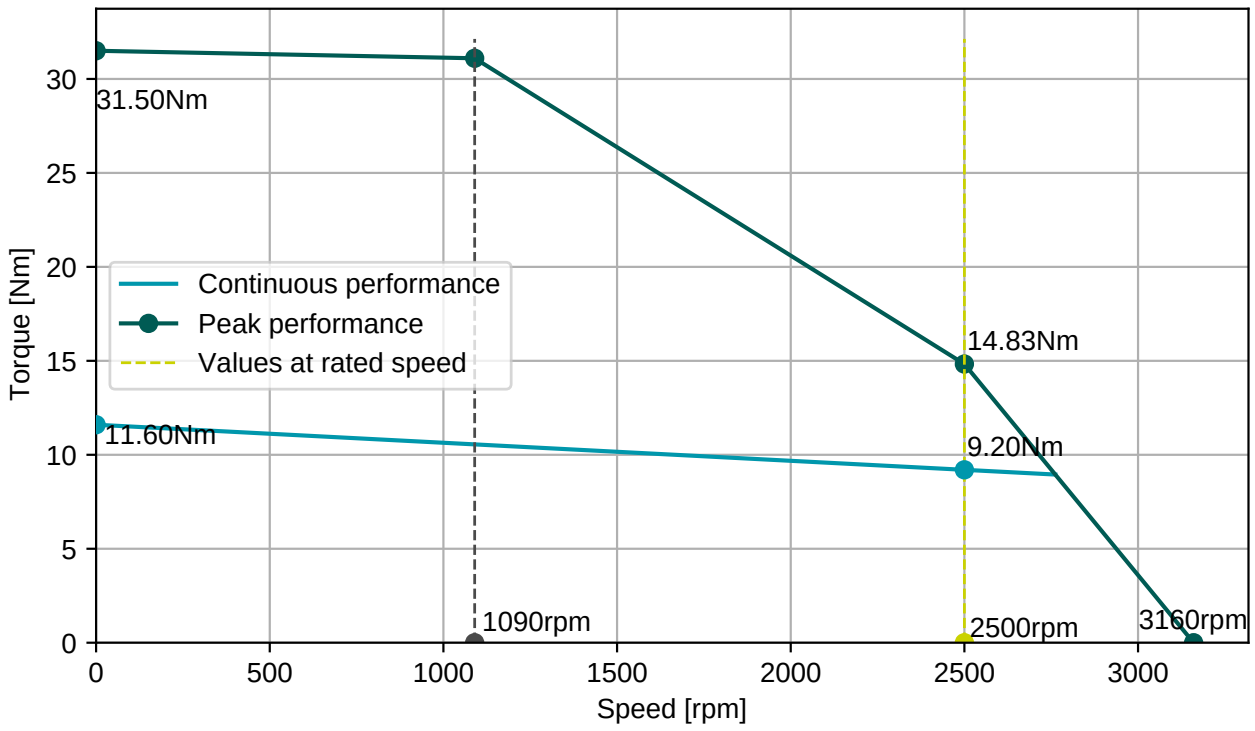
Customs info	
HS Code	85015220

Mechanical data (setting 30)		
Max mechanical speed	9000	rpm
Mech. time constant	0.89	ms
Thermal time constant	40	min
Rotor inertia	8.4	kgcm²
Protection	IP65	
Color	EPOX3 (RAL 9005)	
Cooling	Convection	

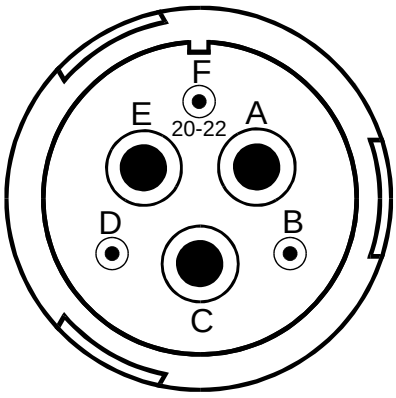
Sensors	
Temperature	UP72T150-140C {UP72T150-140C Uchiya}
Feedback	AD36/1222AF.0CBEB (Biss-C, multi-turn 12+22 bits, 5VDC)

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	kgcm²
Mass	0.75	kg

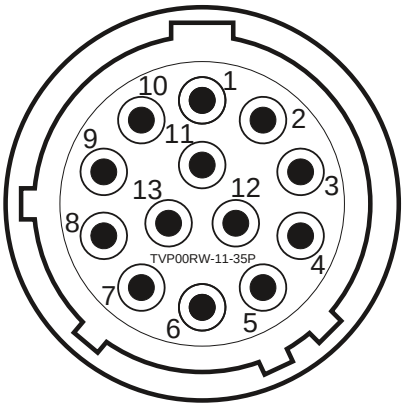
Torque / speed curve



CA3102E20-22P-B-F80-A232



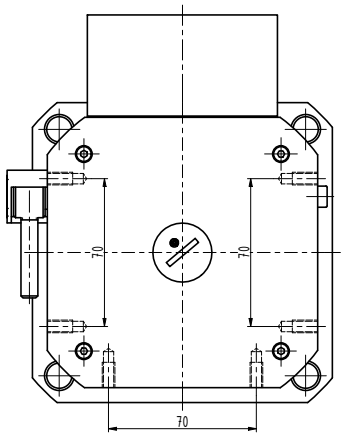
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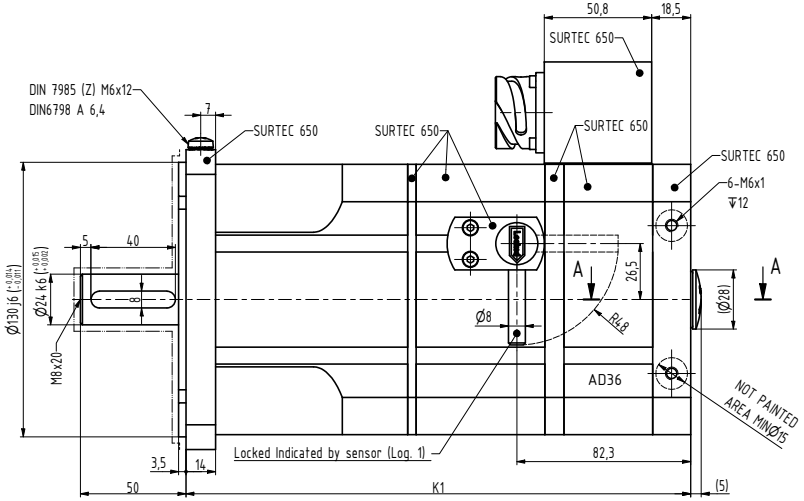


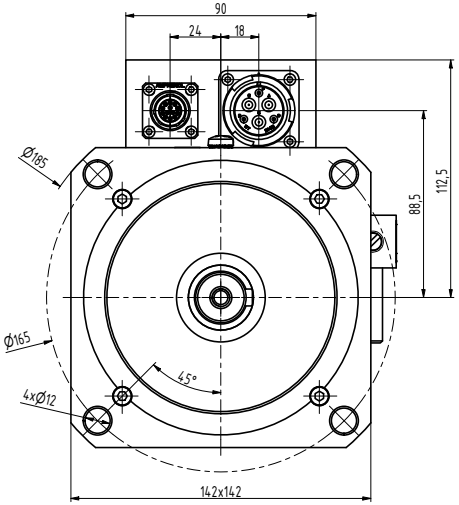
Connector 1 (468)	
A	U
C	V
E	W
F	PE
B	Brake+
D	Brake-

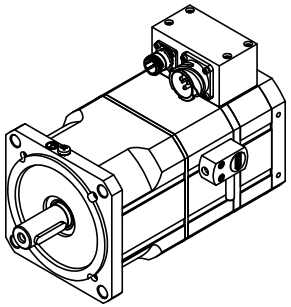
Connector 2 (551)	
1	Vcc
2	GND
3	DATA+
4	DATA-
5	CLOCK+
6	CLOCK-
7	Therm+
8	Therm-
11	BRK_SNS_Up (5-30 VDC)
12	BRK_SNS_GND
13	BRK_SNS_HALL

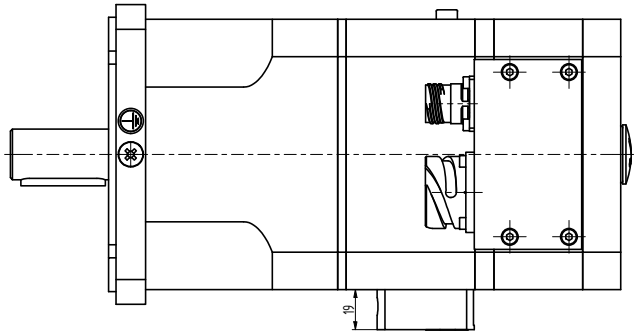
Stainless steel screws min. A2-70 on unpainted parts
All screws secured



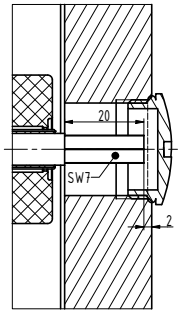








A-A



TYP	K1
M5-0650	239
M5-1050	269

					MATERIAL		
					PROJECTION		NAME	DATE
						DRAW	Ošlejšek	15.07.2026
					NON-TOLERANCED DIMENSIONS ISO 2768-mK	APPROVED	Ošlejšek	15.07.2026
						REDRAWN		
IND	CHANGE	DATE	NAME					
Motor M5				M5145 16 BP Z			REVISION	SHEET 1/1