

Engineering data (WIN 731)

DC bus voltage	560 V DC
Nominal AC voltage	380 V AC (rms)
Rated voltage	296 V AC (rms)
Rated power	4.3 kW
Rated speed	3000 rpm
Rated torque	13.80 Nm
Rated current	9.89 A (rms)
Peak torque	48 Nm
Peak current	35.6 A (rms)
Stall torque	16 Nm
Stall current	10.1 A (rms)
No load speed	3950 rpm
EMF constant ±10%	96 V AC (rms) / 1000rpm
Theoretical torque constant ±10%	1.59 Nm / A (rms)
Torque constant ±10% @ rated load	1.40 Nm / A (rms)
Number of poles	10
Electrical time constant	8.52 ms
Winding terminal resistance	0.88 Ω
Rotary field terminal inductance	7.5 mH

Certifications & customs info

HS Code	85015220
UL isolation	Compliant

Mechanical data (setting 6)

Max mechanical speed	9000 rpm
Mech. time constant	0.70 ms
Thermal time constant	55 min
Rotor inertia	11.5 kgcm ²
Protection	IP64
Color	RAL 9005
Cooling	Convection

Sensors

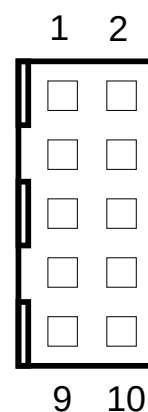
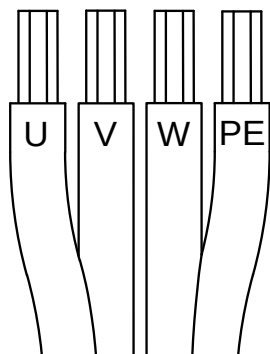
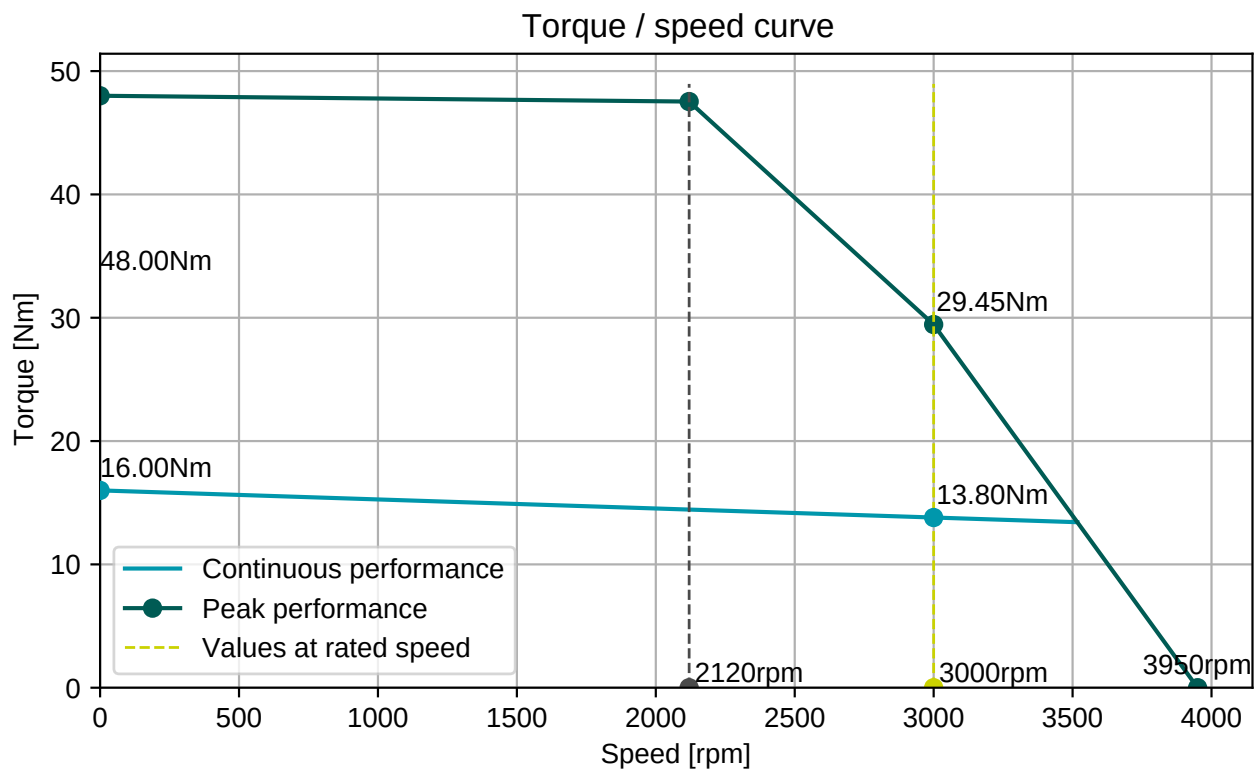
Temperature	KTY 84-130 {KTY 84-130 Reissmann}
Feedback	2-pole resolver (TAMAGAWA-TS2620N21E11)

Brake

Braking torque	18.00 Nm
Voltage	24 V DC
Power @20°C	24.0 W
Current @20°C	1.00 A
Inertia	2.00 kgcm ²
Mass	1.80 kg

Note

- Resolver wires (including connector) - length 110 mm from B-flange
- U, V, W, PE wires - length 250mm from B-flange


Connector 1 (244)

white	U
blue	V
red	W
green/yellow	PE (GND)

Connector 2 (170)

1	S1 (red)
2	S3 (black)
3	S4 (blue)
4	S2 (yellow)
5	R2 (yellow/white)
6	R1 (red/white)
7	Brake+
8	Brake-
9	Therm-
10	Therm+

