Engineering data (WIN 1646)		
DC bus voltage	560	V DC
Nominal AC voltage	380	V AC (rms)
Rated voltage	333	V AC (rms)
Rated power	1.2	kW
Rated speed	1600.0	mm/s
Rated force	672	N
Rated current	2.37	A (rms)
Peak force	4330	N
Peak current	19.2	A (rms)
Stall force	1484	N
Stall current	4.38	A (rms)
No load speed	1744.0	mm/s
Screw static load rating	6840	N
Screw dynamic load rating	6804	N
EMF constant ±10%	0.22	V AC (rms) / (mm/s)
Theoretical force constant ±10%	339	N/A (rms)
Force constant ±10% @ rated load	283	N/A (rms)
Number of poles	10	
Electrical time constant	3.17	ms
Winding terminal resistance	2.496	Ω
Rotary field terminal inductance	7.92	mH

Values defined at 20°C

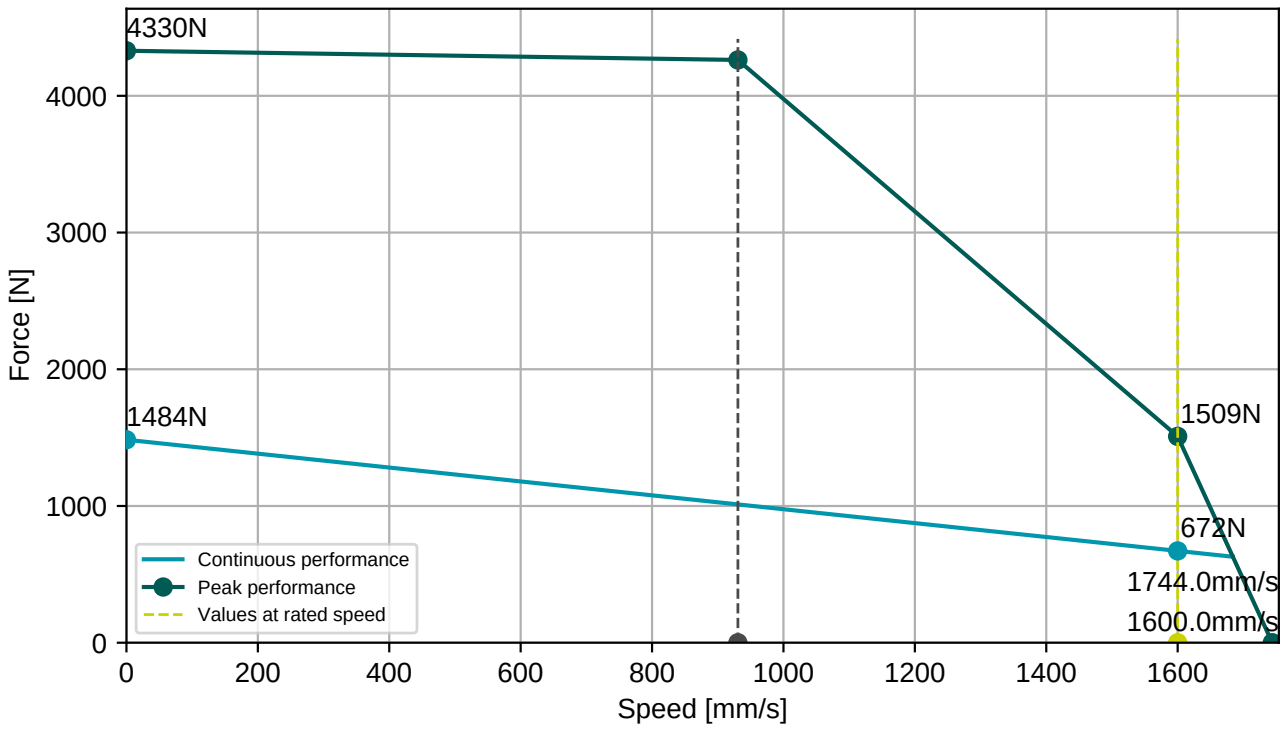
Customs info	
HS Code	85015220

Mechanical data (setting 48)		
Screw lead	16	mm
Min. stroke	27	mm
Max. stroke	147	mm
Max mechanical speed	1600.0	mm/s
Mech. time constant	0.70	ms
Thermal time constant	36	min
Rotor inertia	1.5	kgcm²
Protection	IP64	
Color	RAL 9005	
Cooling	Convection	
Motor-only mass	3.2	kg
Screw mass	0.2	kg
Actuator mass*	3.4	kg

** Total rotor and screw mass*

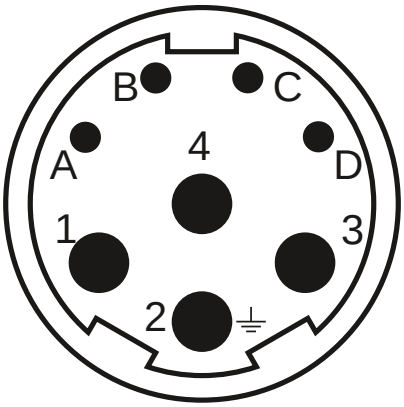
Sensors	
Temperature	PT1000 {PT1000}
Feedback	EDM35 (HDSL) multi-turn, 20+12 bits

Force / speed curve

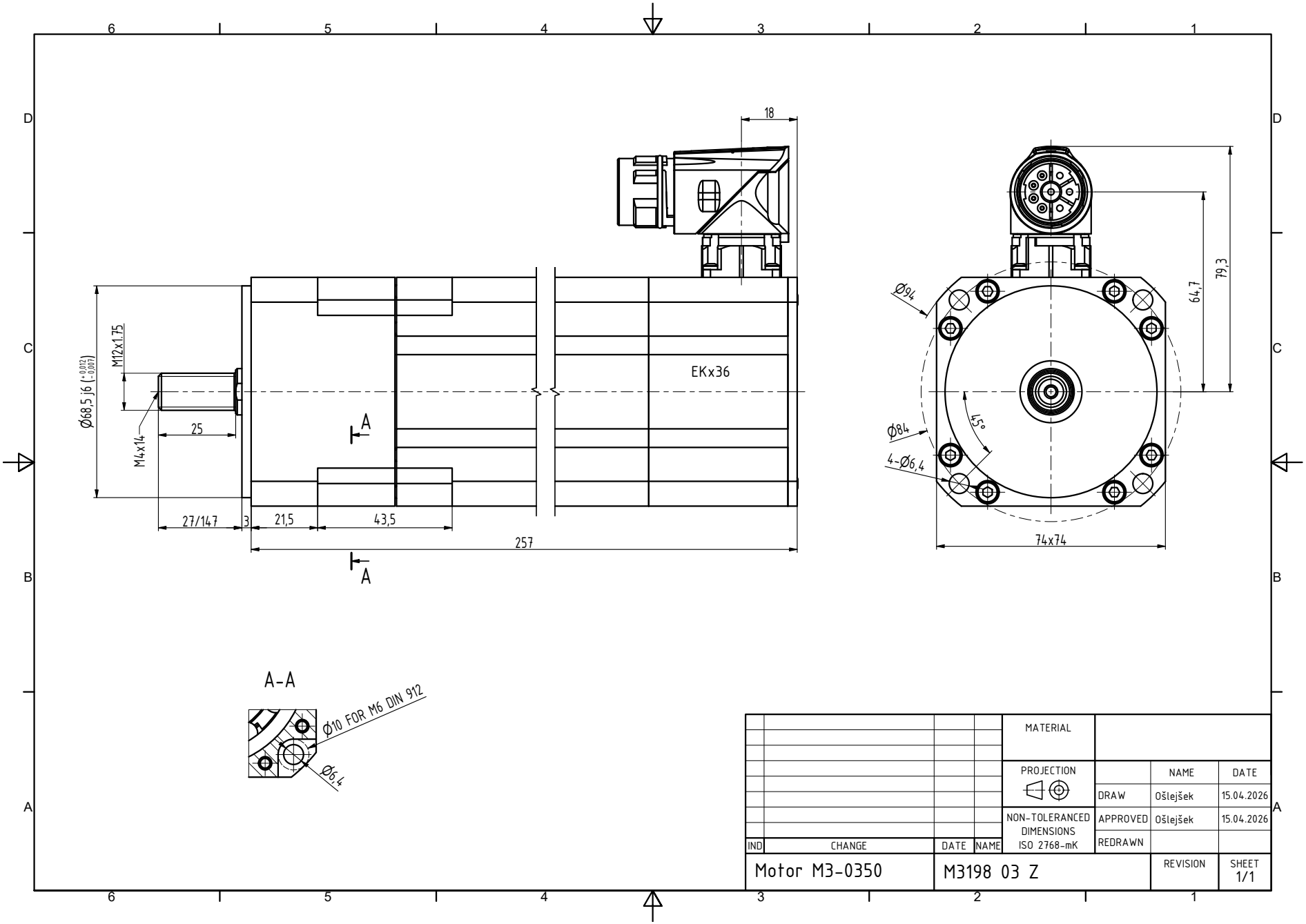


BGC110N00001216000

M23, 8 poles, rotary



Connector 1 (283)	
1	U
4	V
3	W
2	PE
A	Brake+
B	Brake-
C	GND/DSL-
D	+Us/DSL+


18
EKx36
Ø68,5 j6 (+0,012 -0,007)
M12x1,75
M14x14
25
27/147
3
21,5
43,5
257
A
A
Ø94
64,7
79,3
45°
Ø84
4-Ø6,4
74x74
A-A
Ø10 FOR M6 DIN 912
Ø6,4
MATERIAL
PROJECTION
NON-TOLERANCED DIMENSIONS ISO 2768-mK
NAME
DATE
DRAW Ošlejšek 15.04.2026
APPROVED Ošlejšek 15.04.2026
REDRAWN
IND CHANGE DATE NAME
Motor M3-0350
M3198 03 Z
REVISION
SHEET 1/1