Engineering data (WIN -100101)		
DC bus voltage	28	V DC
Nominal AC voltage	18	V AC (rms)
Rated voltage	12	V AC (rms)
Rated power	192	W
Rated speed	500	rpm
Rated torque	3.66	Nm
Rated current	12.9	A (rms)
Peak torque	12.25	Nm
Peak current	63.48	A (rms)
Stall torque	3.79	Nm
Stall current	13.09	A (rms)
No load speed	1020	rpm
EMF constant ±10%	17.5	V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.29	Nm / A (rms)
Torque constant ±10% @ rated load	0.28	Nm / A (rms)
Number of poles	10	
Electrical time constant	4.35	ms
Winding terminal resistance	0.193	Ω
Rotary field terminal inductance	0.84	mH

Customs info	
HS Code	85015100

Mechanical data (setting 0)		
Max mechanical speed	12000	rpm
Mech. time constant	0.60	ms
Thermal time constant	36	min
Rotor inertia	1.5	kgcm²
Protection	IP64	
Color	RAL 9005	
Cooling	Convection	

Sensors	
Temperature	PT1000 {PT1000}

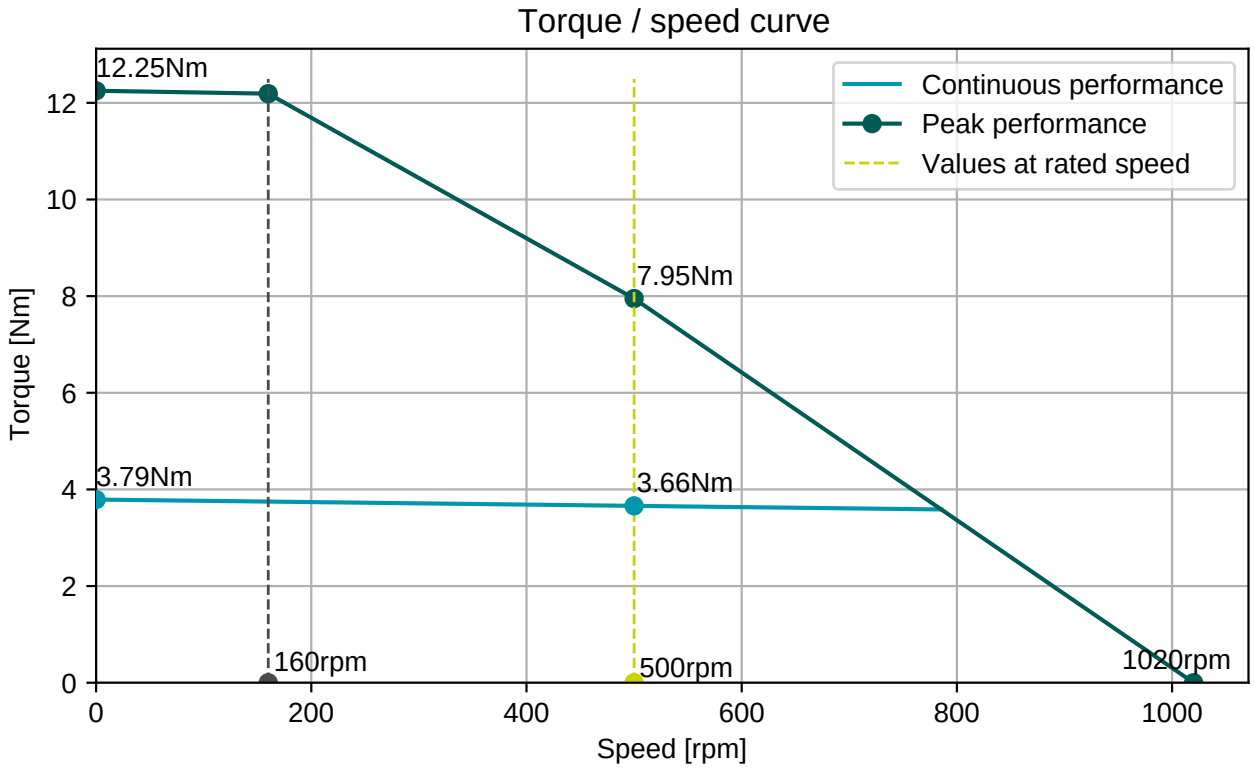
Brake		
Braking torque	4.50	Nm
Voltage	24	V DC
Power @20°C	12.0	W
Current @20°C	0.50	A
Inertia	0.20	kgcm²
Mass	0.47	kg

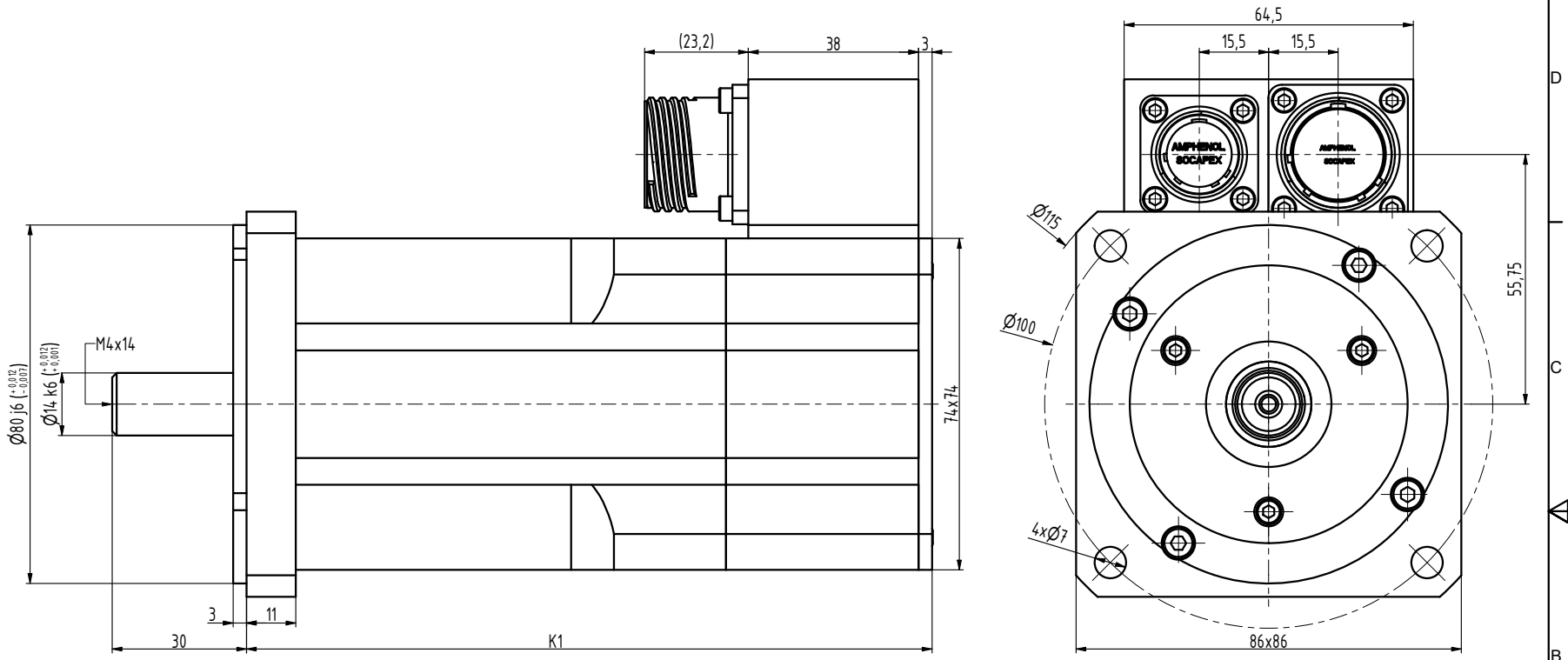
Note

Parameters are modified for requirements:

- For two hours continuously at environmental temperature 60°C.
- Working Point - Peak torgue/current for 3 [sec] maximum, duty cycle 30%, duration of 5 minut es at environmental temperature 60°C.

We assume Halls sensors + BISS-C. The resolution should be specified.


Torque / speed curve
12.25Nm
7.95Nm
3.79Nm
3.66Nm
160rpm
500rpm
1020rpm
Continuous performance
Peak performance
Values at rated speed
Torque [Nm]
Speed [rpm]
0
2
4
6
8
10
12
0
200
400
600
800
1000



TYP	K1
H3-0080	153
H3-0160	171
H3-0270	207
H3-0350	243

INDEX	ZMĚNA	DATUM	PODPIS		
ZN.MAT.			T.O.	HMOTNOST kg	MĚŘ.
ROZM.-POLOT.					
POM. ZAŘ.				ČSN	TŘ.Č.
VYPR.		NORM.REF.		POZN.	Č. KUSOVNÍKU
PŘEKR.					
TECHNOL.		SCHVÁLIL	26.08.2026	STARÝ V.	Č.V.

NÁZEV
Motor H3

H3001 xx B Z

Listů List