Engineering motordata (WIN 1435)		
DC bus voltage	560	V DC
Nominal AC voltage	380	V AC (rms)
Rated voltage	115	V AC (rms)
Rated power	113	W
Rated speed	4500	rpm
Rated torque	0.24	Nm
Rated current	0.93	A (rms)
Peak torque	1	Nm
Peak current	4	A (rms)
Stall torque	0.26	Nm
Stall current	0.9	A (rms)
No load speed	21190	rpm
EMF constant ±10%	17.5	V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.289	Nm / A (rms)
Torque constant ±10% @ rated load	0.258	Nm / A (rms)
Number of poles	6	
Electrical time constant	1.05	ms
Winding terminal resistance	27.092	Ω
Rotary field terminal inductance	28.4	mH

Customs info	
HS Code	85015100

Mechanical motor data (setting 29)		
Max mechanical speed	12000	rpm
Mech. time constant	2.80	ms
Thermal time constant	12	min
Rotor inertia	0.05	kgcm²
Protection	IP64	
Color	RAL 9005	
Cooling	Convection	

Sensors	
Temperature	PT1000 {PT1000}
Feedback	ECI1118 (EnDat 2.1), single-turn, 16 imp. ot. 1 Vpp, 18 bits

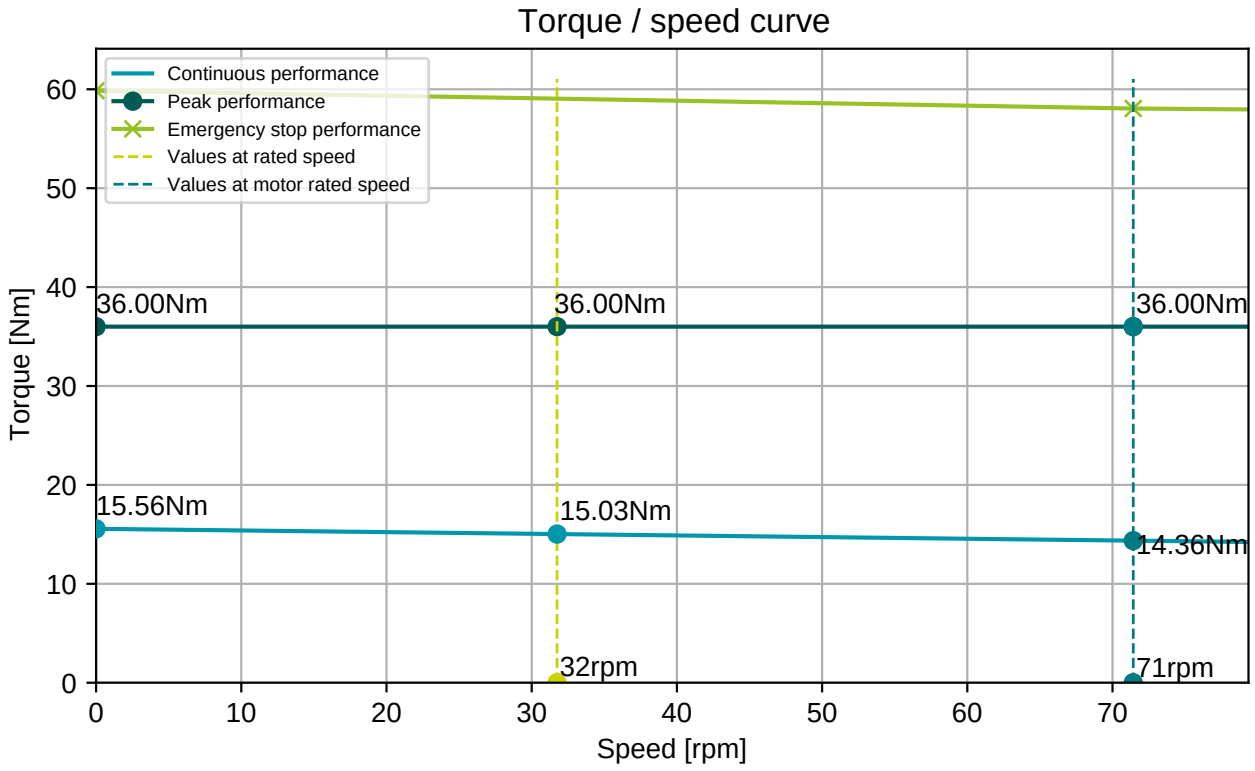
Gearbox engineering data		
Gear ratio	63	
Efficiency*	95	%
Torsional stiffness	2.5	Nm/arcmin
Rated output torque	18	Nm
Max output torque	36	Nm
Emergency output torque	90	Nm
Rated input speed	2000	rpm
Max input speed	5000	rpm
Operating temperature	<-25; 50>	°C
Max. backlash	< 1.5	arcmin
Service life	6000	h

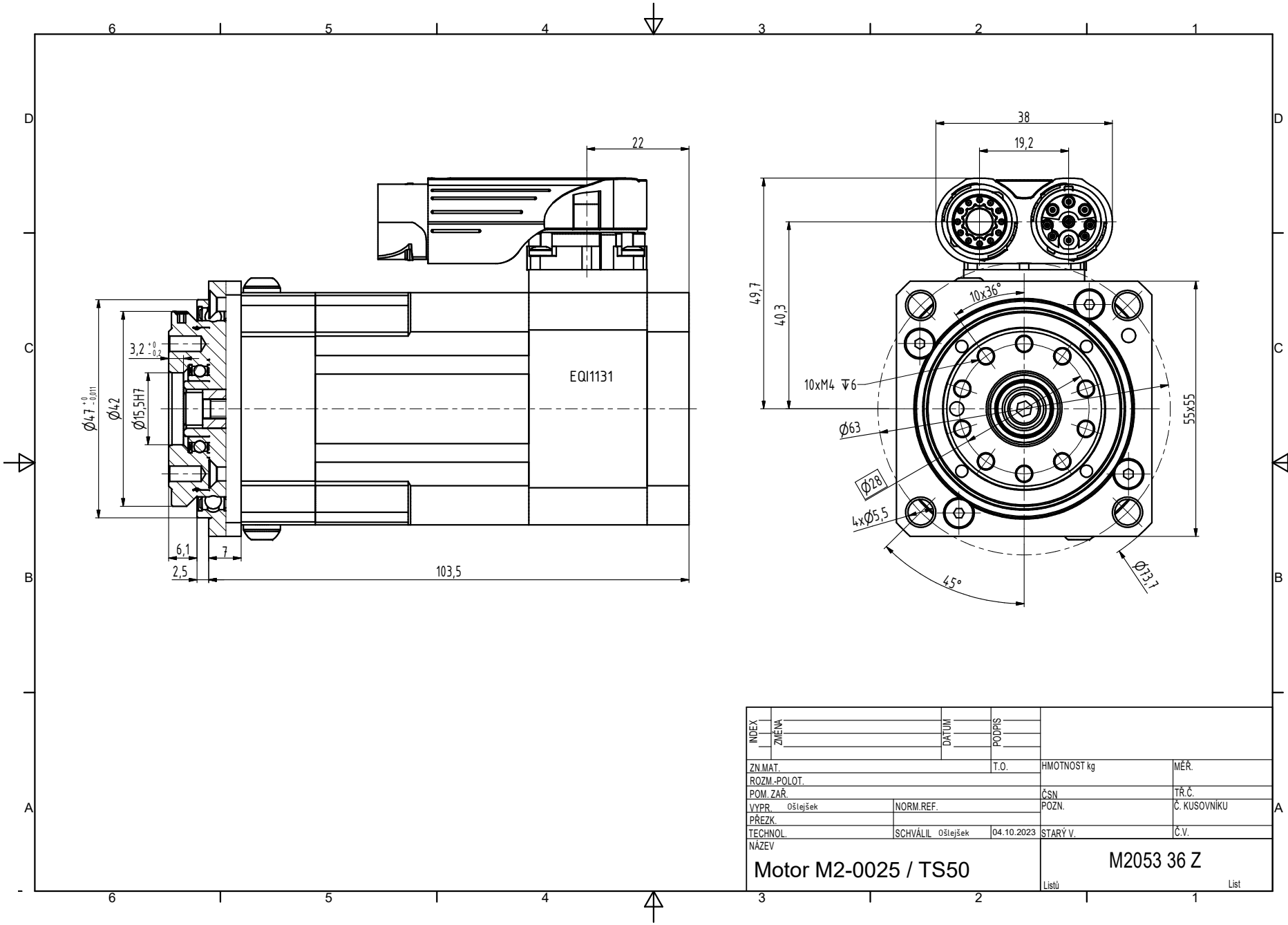
** at rated speed & torque*

Lubrication	
Type	Standard
Lubricant	TRIBOL GR TT 1 PD

Gearbox mechanical data		
Max. radial force	1440	N
Max. axial force	1900	N
Output shaft design	Flange	
Mass	0.47	kg
Input inertia	0.007	kgcm²
Protection	IP64	

Actuator data		
Rated speed	32	rpm
Rated torque	15.03	Nm
Peak torque	36.00	Nm
Emergency stop torque	63.00	Nm
EMF constant ±10%	1102.5	V AC (rms) / 1000rpm
Torque constant ±10% @ rated load	15.45	Nm / A (rms)
Output inertia	226.2	kgcm²


Torque / speed curve
Continuous performance
Peak performance
Emergency stop performance
Values at rated speed
Values at motor rated speed
Torque [Nm]
Speed [rpm]
36.00Nm
36.00Nm
36.00Nm
15.56Nm
15.03Nm
14.36Nm
32rpm
71rpm
0
10
20
30
40
50
60
70


22
EQI1131
Ø4,7 +0 -0,011
Ø42
Ø15,5H7
3,2 +0 -0,2
6,1
7
2,5
103,5
38
19,2
49,7
40,3
10x36°
10xM4 ↧6
Ø63
Ø28
4xØ5,5
45°
55x55
ØI33,7
INDEX
ZMĚNA
DATUM
PODPIS
ZN.MAT.
T.O.
HMOTNOST kg
MĚŘ.
ROZM.-POLOT.
POM. ZAŘ.
ČSN
TŘ.Č.
VYPR. Ošlejšek
NORM.REF.
POZN.
Č. KUSOVNÍKU
PŘEZK.
TECHNOL.
SCHVÁLIL Ošlejšek
04.10.2023
STARÝ V.
Č.V.
NÁZEV
Motor M2-0025 / TS50
M2053 36 Z
Listů
List