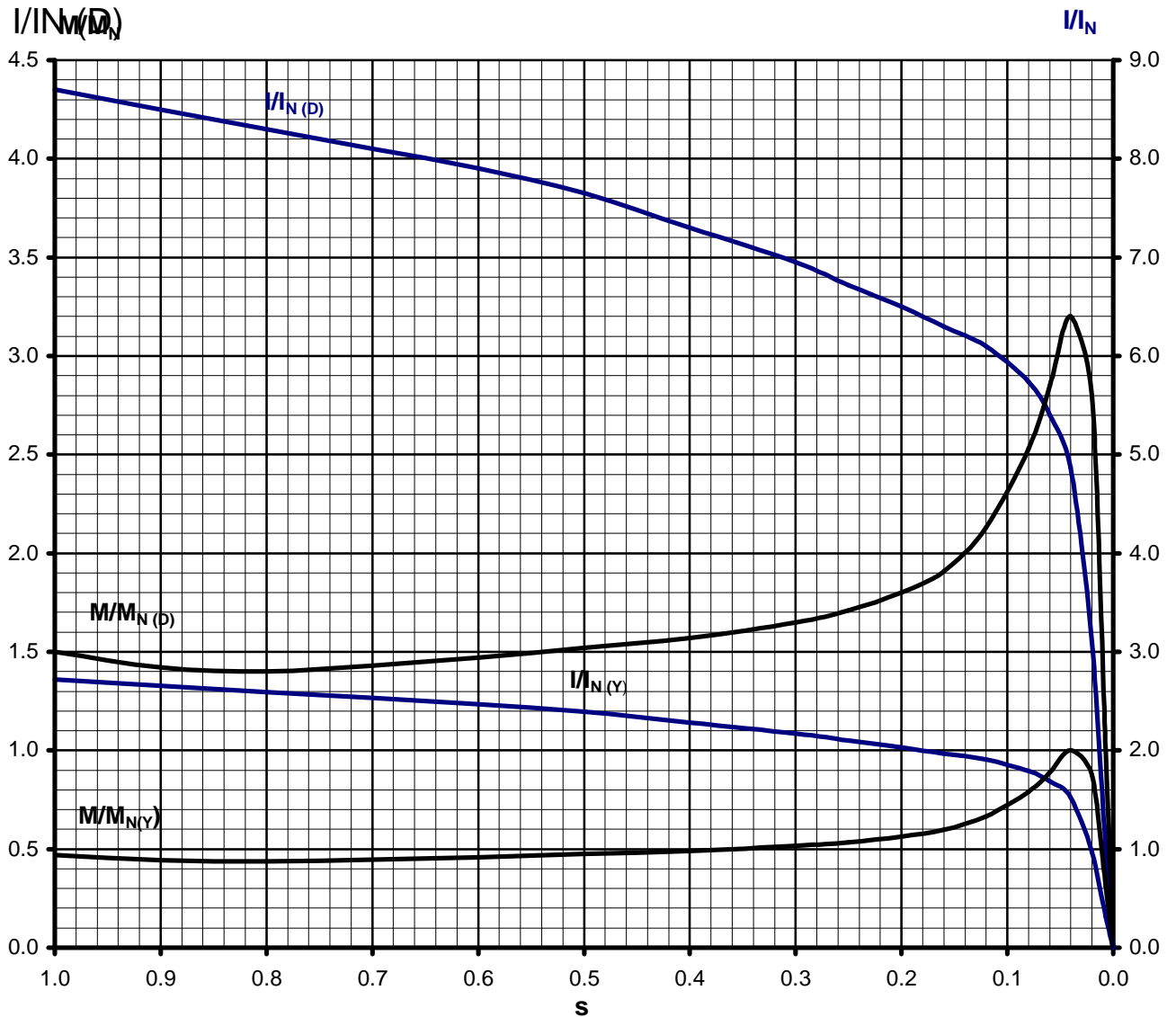


2.RZKIT 400 Ld- 6, 560 kWsin, D,690V, 400 kWreg, D, 690V, 50Hz



	s	I/IN(Y)	M/MN(Y)	I/IN(D)	M/MN(D)
M _N	0.000	0.00	0.00	0.00	0.00
	0.0070	0.31	0.31	1.00	1.00
M _{max} /M _N	0.020	0.97	0.88	3.10	2.80
	0.040	1.52	1.00	4.87	3.20
	0.060	1.69	0.89	5.40	2.85
	0.080	1.79	0.79	5.74	2.53
	0.120	1.91	0.67	6.10	2.13
	0.160	1.97	0.60	6.30	1.91
	0.200	2.03	0.56	6.50	1.80
	0.250	2.10	0.53	6.72	1.71
	0.300	2.17	0.52	6.95	1.65
	0.400	2.28	0.49	7.30	1.57
M _{min} /M _N	0.500	2.39	0.48	7.65	1.52
	0.600	2.47	0.46	7.90	1.47
	0.700	2.53	0.45	8.10	1.43
	0.800	2.59	0.44	8.30	1.40
M _C /M _N	0.900	2.66	0.44	8.50	1.42
	1.000	2.72	0.47	8.70	1.50

M_{N(D)}= 3839 Nm
 I_{N(D)}= 405 A
 cos φ= 0.860
 η= 96.00 %
 n_N= 995 min⁻¹
 I_{C(D)}= 3527 A
 M_{min}/M_N= 1.40
 M_{max}/M_N= 3.20
 M_{C(D)}= 5759 Nm
 M_{min(D)}= 5375 Nm
 M_{max(D)}= 12285 Nm
 S_{Mmin}= 0.800
 S_{Mmax}= 0.040
 n_{Mmin}= 200 min⁻¹
 n_{Mmax}= 960.0 min⁻¹



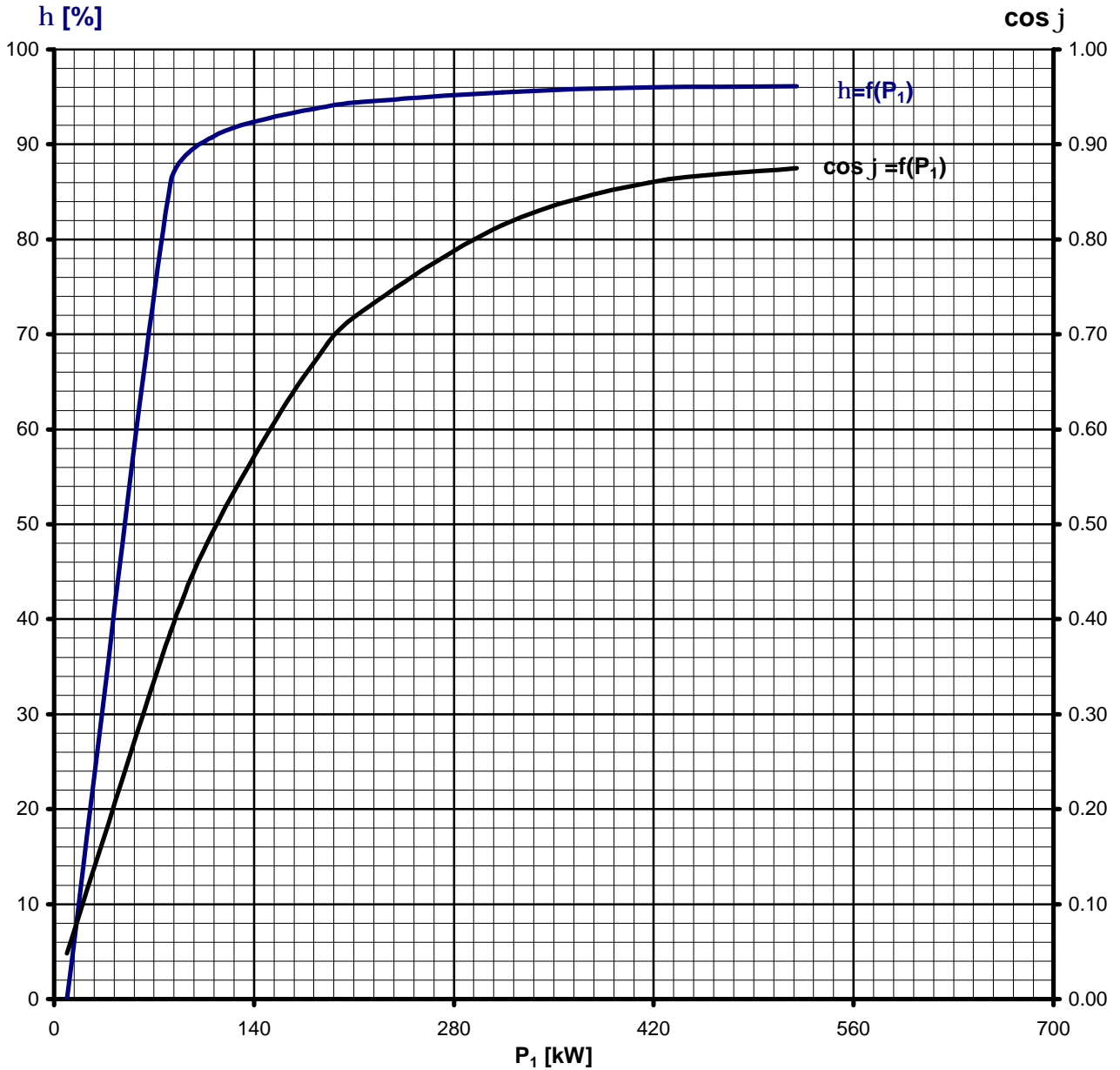
Pr/calc.:2019/RR03, data and curv on 400kW-conv.

Sastavio: 07.06.2007.

Laslo Z., ing.

Overio: Milovanović J., inž.

2.RZKIT 400 Ld- 6, 560 kWsin, D,690V,400 kWreg, D, 690V, 50Hz



conv. load

P_1 [kW]	h [%]	cos j	P_2 [kW]	
9.10	0.00	0.048	0.00	Po
81.40	86.00	0.387	70.00	
110.25	90.70	0.490	100.00	25%P _N
150.86	92.80	0.599	140.00	
181.43	93.70	0.669	170.00	
211.86	94.40	0.720	200.00	50%P _N
314.14	95.50	0.815	300.00	75%P _N
416.67	96.00	0.860	400.00	100%P_N
520.29	96.10	0.875	500.00	125%P _N
P_n=400kW, Un=690V, D,60 Hz				60 Hz
P_n sinus=560kW, Un sin=690V,D,50 Hz				50 Hz

Pr/calc.:2019/RR03,data and curv on 400kW-conv.

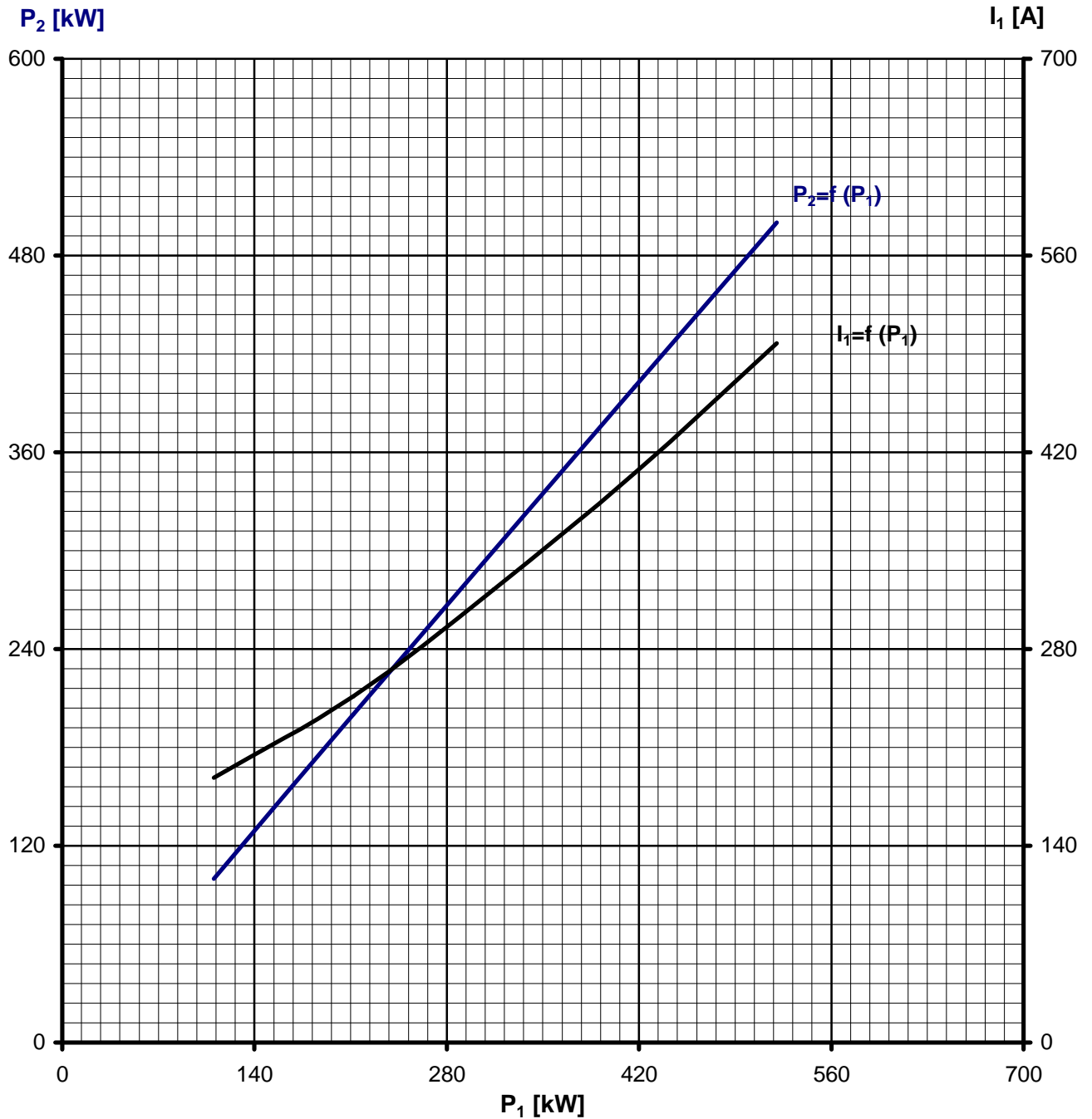
$U_{N[V]} = 690.0$ $P_{N[kW]} = 400.00$
 $U_{N \sin[V]} = 690.0$

Sastavio: 07.06.2007.

Laslo Z., ing.

Overio: Milovanović J., ing.

2.RZKIT 400 Ld- 6, 560 kWsin, D,690V,400 kWreg, D, 690V, 50Hz



Režim: mot-1 gen-2:

P_1 [kW]	I_1 [A]	P_2 [kW]
110.25	188	100.00
211.86	246	200.00
314.14	323	300.00
416.67	405	400.00
520.29	498	500.00

Pn=450kW, Y, 660V, 60Hz	416.67	396	400.00
Pn sinus=560kW, Y, 690V, 50Hz	582.73	554	560.00

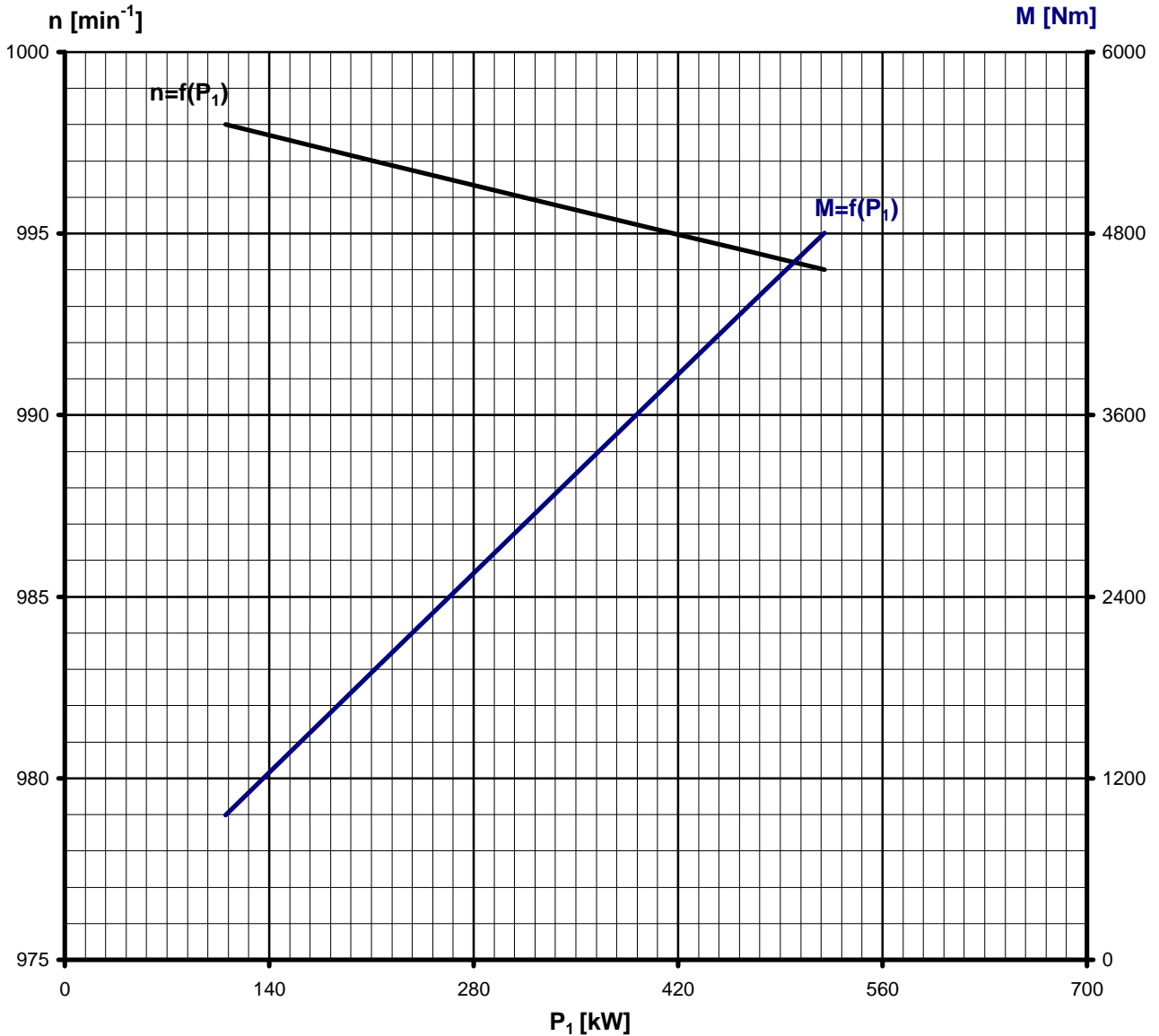
Pr/cal.:2019/RR03,data and curv on 400kW-conv.

Sastavio: 07.06.2007.

Laslo Z., ing.

Overio: Milovanović J., ing.

2.RZKIT 400 Ld- 6, 560 kWsin, D,690V,400 kWreg, D, 690V, 50Hz



s [%]	P_1 [kW]	n [min^{-1}]	M [Nm]
0.200	110.25	998.0	957
0.300	211.86	997.0	1916
0.400	314.14	996.0	2877
0.500	416.67	995.0	3839
0.600	520.29	994.0	4804
P_n=400kW, U_n=690V, D,60 Hz			
0.50	416.67	1194.0	3199
sinus=560kW, U_{n sin}=690V,D,50 Hz			
0.70	582.73	993.0	5386

sinhr. brzina $n_1 = 1000$ min^{-1}

Broj polova $2p = 6$

Frekvencija $f = 50$ Hz

sinhr. brzina = 1200 min^{-1}

Broj polova $2p = 6$

Frekvencija $f = 60.00$ Hz

weght = **3450** kg

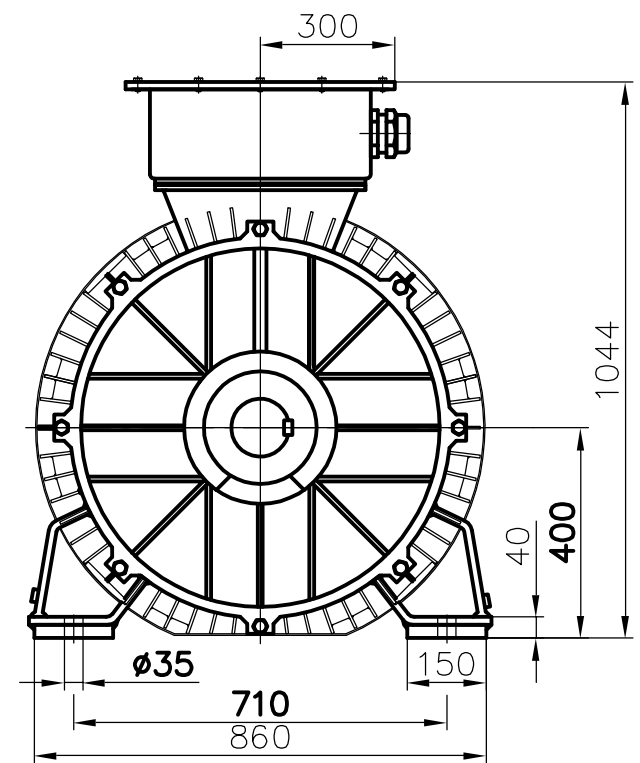
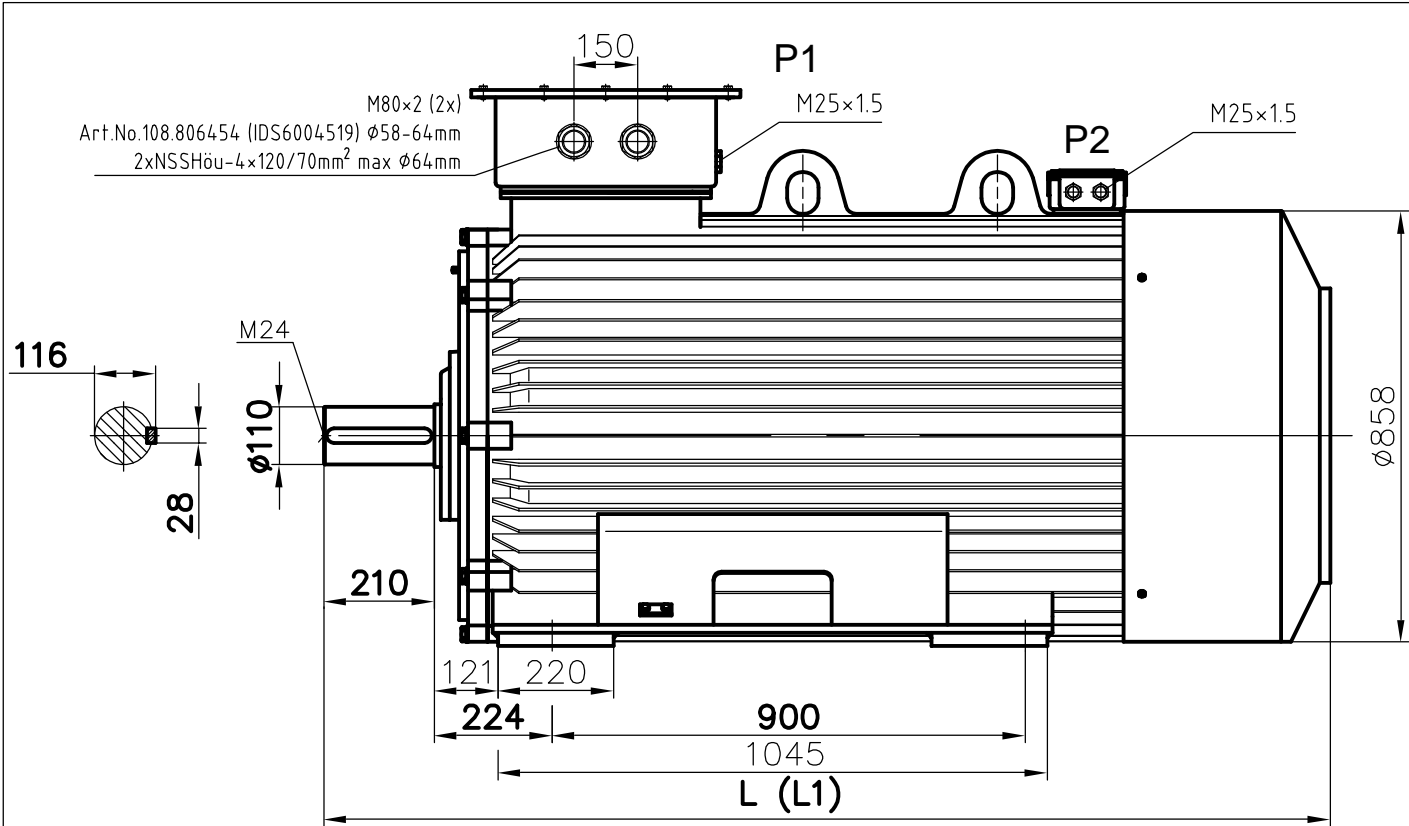
Pr/cal.:2019/RR03,data and c

$J_m = 34.5$ kgm^2

Sastavio: 07.06.2007

Laslo Z., ing.

Overio: Milovanović J., ing.



Art.No.108.806454 (IDS6004519) $\phi 58-64\text{mm}$
 2xNSSHöu-4x120/70mm² max $\phi 64\text{mm}$

KOSTOLAC DRMNO
 SPREADER ARs 2000 EXORESİ
 Discharge Conveyor Drive 1, 2
 Bridge Conveyor Drive 1, 2
 Intermediate Conveyor Drive

Oznaka/Label: 01-M1, 01-M2
 Oznaka/Label: 09-M1, 09-M2
 Oznaka/Label: 10-M1

Ⓛ - bez tahogeneratora/withuot encoder
 L1 - sa tahogeneratorom/with encoder

Poz.	TIP	L	L1
1	L,Lk-4,L-8	1978	2111
2	L,Lk,Ld-6		
3	Ld-4	2108	2241

(SRB)

(GB)

NAPOMENA:
 -Prigradne mere: obavezne
 -Ostale mere: informativne
 -3+3 Pt100 u namotaju
 -2xPt100 na ležajevima
 -Grejači 2x(99W+99W), 230V
 -P1-statorska priključnica
 -P2-priključnica za termičku zaštitu
 -Ležajevi:
 A.str.: 6324 C3
 B.str.: 6322 M/C3 VL0241 izolovan

NOTE:
 -The switching dimensions are obligatory
 -The other dimensions informative only
 -3+3 Pt100 in windings
 -2xPt100 bearings
 -Heaters 2x(99W+99W), 230V
 -P1-Stator terminal box
 -P2-Terminal box for thermal protection
 -Bearing :
 DE:6324 C3
 NDE: 6322 M/C3 VL0241 insulated

Rev.	Sadržaj revizije	Dat.	Ime	 SUBOTICA-SERBIA			Tip motora/Motor type:		
1.				Kupac/Customer:			2. RZKIT400 L,Lk, Ld-4,6,8		
2.									
3.									
4.	Sa ležajnim termometrima	22.10.2007.	Koso N				Glavne karakteristike/Main characteristics:		
5.				Odgovoran	Datum	Ime	Sign.	Broj crteža/Drawing number:	Rev.
6.				Sastavio	09.07.07.	Belecian M.			
7.				Šef biroa	06.07.07.	Milovanović J.		10072007/MB	4
8.				- additional modifications after confirmation of this measurement drawing may effect motor cost and delivery time - dodatne izmene nakon overe ove merne skice mogu uticati na rok isporuke i cenu motora					

motors (690V, Δ) for converter supply in open pit miningHandled by: Milovanovic, Calcul.: **2019-560kW,sin.;** Curves: **1459-400kW conv/r**

Environmental conditions

1. Country of installation: Serbia
 Place of installation: **pogonska stanica tračnog transportera**
 Installation height (above sea level): < 1000 m m
 Ambient temperature: - 25 °C / + 40 °C

2. Conditions of application

The machine will be used on drawer (conveyor), type - _____

Heavy mechanical vibrations and shocks can occur during the operation.

The motor and his auxiliaries have to withstand those loads without impairment.

mechanical stress: vibration speed **$V_{eff} = 20$ mm/s**
 vibration acceleration **$\leq 0,2$ g (f = 5...150 Hz)**
 shock acceleration/time **2 g / 6 ms**

They must meet the requirements acc. to DIN VDE 0530, IEC.

3. Signposts

- 1 rating plate: 1x for sinus load / 1x for converter load (with converter supplied motors)

- information plates for lubrication in **Serbian****4. Common constructive data**

Mounting designation: **IM 1001 / IMB3**
 Kind of protection: **IP55**
 Cooling method: **IC 411, welded fan**
 Direction of rotation: **bi – directional**

Insulation / Temp.rise: min. class F / class B, (short therm F is allowed)

5. Surface treatmentPaint coat system, colour: special Sever-Standard for Open Pit Mining RAL 7001 Minimum coat thickness:(only if especially required by customer) 2 x 80 = 160 μm 3 x 80 = 240 μm **6. Documentation (for offering and delivery)**

- nominal values
- torque / current / power factor efficiency / temperature in the range
- dimension drawing
- installation / maintenance manual (3x English / 3x Serbian)

7. Tests

- Factory acceptance test (incl. noise test by no load); the test reports in English and Serbian

For type machine only

- Load test
- Noise by load

motors (690V, Δ) for **converter supply in** open pit miningHandled by: Milovanovic, Calcul.: **2019-560kW,sin.;** Curves: **1459-400kW conv/r****8. Position****9. Electrical parameters**

Motor for converter supply:

Insulation voltage \dot{U}_{LL} / **1800 V****Data 50 Hz / sinus load**

Operating voltage: **690 V**
Winding connection : Δ 690 V
Power: **560 kW / 993 rpm**
Duty : S1, ED 100%
Efficiency : **96.10%**
Power factor : **0.880**
Current : **554 A**
Torque : **5386Nm**
Noise : **84 d(B)A**

Data 30 – 50 – 60 Hz converter load

415 – 690 – 690 V
 Δ
240kW / 595rpm - 400kW / 995rpm - 435kW / 1193rpm
S1, ED 100%
95.00 % / 96.00% / 96.10%
0.85 / 0.850 / 0.885
715 / 413 – 708 / 409 – 740 / 427 A
3852 Nm - 3847Nm - 3485Nm

10. Motor (1pc)

Type: **2. RZKIT 400 Ld-6,**
Shaft height / weight : **400 mm / 3450 kg**
Rotor inertia : **34.5 kgm²**

11. additional constructive data

Mounting designation: IM 1001 / IM B3
Kind of protection: **IP 55**
Cooling method: **IC 411**
Dimension drawing: **10072007/MB/REV_04 _2RZKIT 400 Ld-6_B3**
Winding protection : (3+3)x PT100 ; control cable penetration M 25x1,5
Bearing protection : **2xPt 100**

Anti-condensation heater: 230 V, 2 x 2 x 99W; control cable penetration M 25x1,5

Direction of rotation : **right / left**

Motor inclination axial: **+ / - °**

Bearings (special bearing construction): antifriction bearings, dust-tight; *double labyrinth system*
mechanical endurance 50 000 h ; **bearing insulated (B side)**

Terminal box: top / cable connection from **right**
cable penetration 2xM80x2, Art No.108.806454, ID#6004519, (Ø58-64mm)
for 2x NSSHöu- 4x120/70mm², max Ø64 mm

Auxiliary boxes of the motor: cable connection from **right**
Tacho installation: **no**

Datum: **11.07.2007.**

rew1; Misljenovic; 13.01.2009

