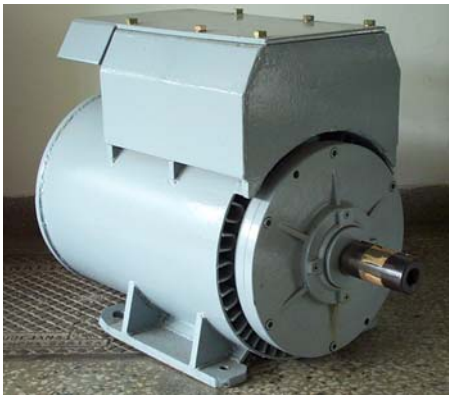
MINING´S ELECTRIC MOTORS 3KTCP AND 4KTCP





Application:

- electric motors type 3KTCP and 4KTCP are suitable for heavy working conditions in coal mines
- the enclosure of electric motors are designed to be “flameproof” according to EN 50018.
- the terminal boxes are designed to be “increased safety” according to EN 50019
- enclosure (cooling rib, terminal box and cable glands) are protected with steel cuirass, even filled up with coal the motor is cooled enough (the temperature of surface does not exceed 200°C)
- ratio between starting current and nominal current is < 5
- ratio between starting torque and nominal torque is > 2,2
- windings are designed that is able to withstand frequently switch on and off

Bearings:

- drive end bearing NU3 (DIN 5412), non-drive end 63 (DIN 625)

Explosion protection

Certificate of Conformity: Frame size 180, 200, 225 Frame size 250 Frame size 280 Frame size 315	 BVS 04 ATEX E 260 BVS 04 ATEX E 261 BVS 04 ATEX E 262 BVS 04 ATEX E 263
Explosion protection	Ex I M2 EEx de I ; Ex I M2 EEx d I
Degree of protection	IP 55
Thermal class	F

Technical data

	Power	Speed	In 380 V	In 500 V	In 1100 V	Ia/In	Mm/Mn	Efficency	Power factor
Type	kW	Min^{-1}	A	A	A	Starting current	Starting torque	%	cos φ
3 KTCP 180 L-4	22	1455	46	34,5	15,3	5,0	2,2	89	0,84
3 KTCP 200 L-4	30	1460	57	45	20,2	4,7	2,3	90	0,85
3 KTCP 225 M-4	45	1465	85,5	65	29,2	4,8	2,5	91	0,86
3 KTCP 225 S-4	37	1470	71	54	24,3	4,8	2,5	92	0,86
4 KTCP 250 M-4	55	1475	108	82	38,2	4,8	2,5	92,5	0,86
4 KTCP 280 S-4	75	1475	141	108	48,6	4,9	2,4	93	0,87
4 KTCP 280 M-4	90	1475	170	129	58,5	4,8	2,4	92,5	0,88
4 KTCP 315 S-4	110	1485	212	161	72	5,0	2,4	93	0,88
4 KTCP 315 MA-4	132	1485	253	184	82,8	5,0	2,4	93	0,88
4 KTCP 315 MB-4	160	1480	295	224	100,8	5,5	2,4	93,5	0,89
4 KTCP 315 MC-4	200	1485	345	275	126,0	6,9	2,6	95,8	0,87

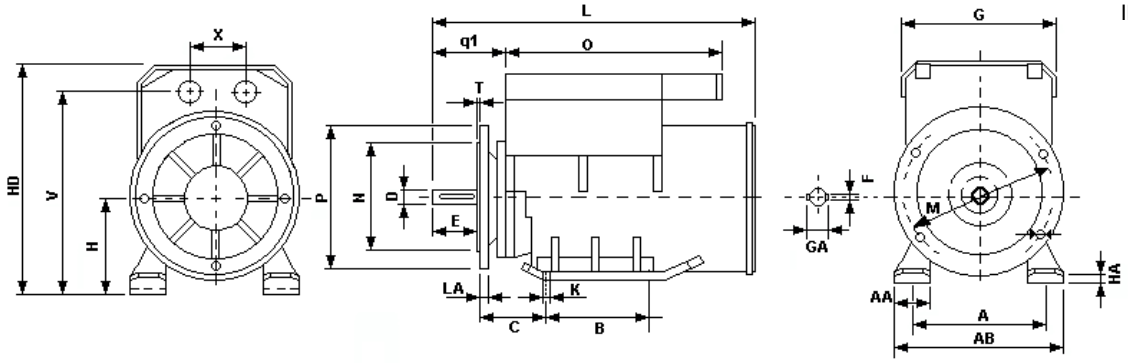
- Data for 2, 6 and 8 pole motors on request

Materials:

Frame size	Stator			Shield	Auxiliary parts	Fan`s shield	Fan	Noise level (dB)			
	Stator frame	Feet	Outside surface	Material	Material	Material	Material	3000 Min^{-1}	1500 Min^{-1}	1000 Min^{-1}	750 Min^{-1}
180	Stell sheet-welded	Welded	Cooling rib protected with Steel cuirass	Cast iron	Cast iron	Stell sheet-welded	Stell sheet-welded	73	65	60	56
200								75	64	60	58
225								76	65	62	58
250				Stell sheet-welded				76	66	64	60
280								78	69	66	62
315								80	70	69	64

Dimensions

Frame size: 180-315
Arrangements: IMB 3
IMB 5
IMB 35



Type	A	AA	AB	B	C	D	E	F	GA	D	E	F	GA	H	HA
						2 pole				4, 6, 8 pole					
3KTCP 180 M	279	70	348	241	121	48	110	14	51,5	48	110	14	51,5	180	16
3KTCP 180 L	279	70	348	279	121	48	110	14	51,5	48	110	14	51,5	180	16
3KTCP 200 L	318	80	398	305	133	55	110	16	58,8	55	110	16	58,8	200	16
3KTCP 225 S	356	80	436	285	149	60	140	18	64,2	60	140	18	64,2	225	16
3KTCP 225 S	356	80	436	311	149	55	110	16	58,8	60	140	18	64,2	225	16
4KTCP 250 M	406	100	506	349	168	60	140	18	64,2	65	140	18	64,2	250	20
4KTCP 280 S	457	110	568	368	190	65	140	18	69,2	75	140	20	79,6	280	20
4KTCP 280 M	457	110	568	419	190	65	140	18	69,2	75	140	20	79,6	280	20
4KTCP 315 S	508	120	628	406	216	65	140	18	69,2	80	170	22	85,5	315	25
4KTCP 315 M	508	120	628	457	216	65	140	18	69,2	80	170	22	85,5	315	25
4KTCP 315 MC	508	120	628	457	216	65	140	18	69,2	80	170	22	85,5	315	25

Type	HD	K	L	q1	L	q1	LA	M	N	P	S	T	G	O	V	X
			2 pole		4, 6, 8 pole											
3KTCP 180 M	510	14	740	168	740	168	15	300	250	350	18	5	350	494	422	82
3KTCP 180 L	510	14	780	168	780	168	15	30	250	350	18	5	350	534	422	82
3KTCP 200 L	563	18	840	177	840	177	18	350	300	400	18	5	385	585	473	98
3KTCP 225 S	613	18	842	208	842	208	18	350	300	400	18	5	386	556	523	98
3KTCP 225 S	613	18	872	178	902	208	18	350	450	400	18	5	386	616	523	98
4KTCP 250 M	701	24	987	219	987	219	18	500	450	550	19	5	446	660	589	144
4KTCP 280 S	770	24	1012	223	1012	223	18	500	450	550	19	5	456	690	655	144
4KTCP 280 M	770	24	1072	223	1072	223	18	500	450	550	19	5	456	750	659	144
4KTCP 315 S	857	24	1051	261	1081	291	22	600	550	660	24	6	532	795	760	170
4KTCP 315 M	857	24	1176	261	1206	291	22	600	550	660	24	6	532	855	760	170
4KTCP 315 MC	857	24	1390	261	1390	291	22	600	550	660	24	6	532	855	760	170

- all datas and dimensions are informative and will be specified during quotation.