L.T.D. for projecting, manufacture, instalation and maintenance cranes, elevators and other machines

"PRIM CO COMPANY"

DONJA ORAHOVICA

Reduktoren und Getriebemotorgruppen, Serie TP

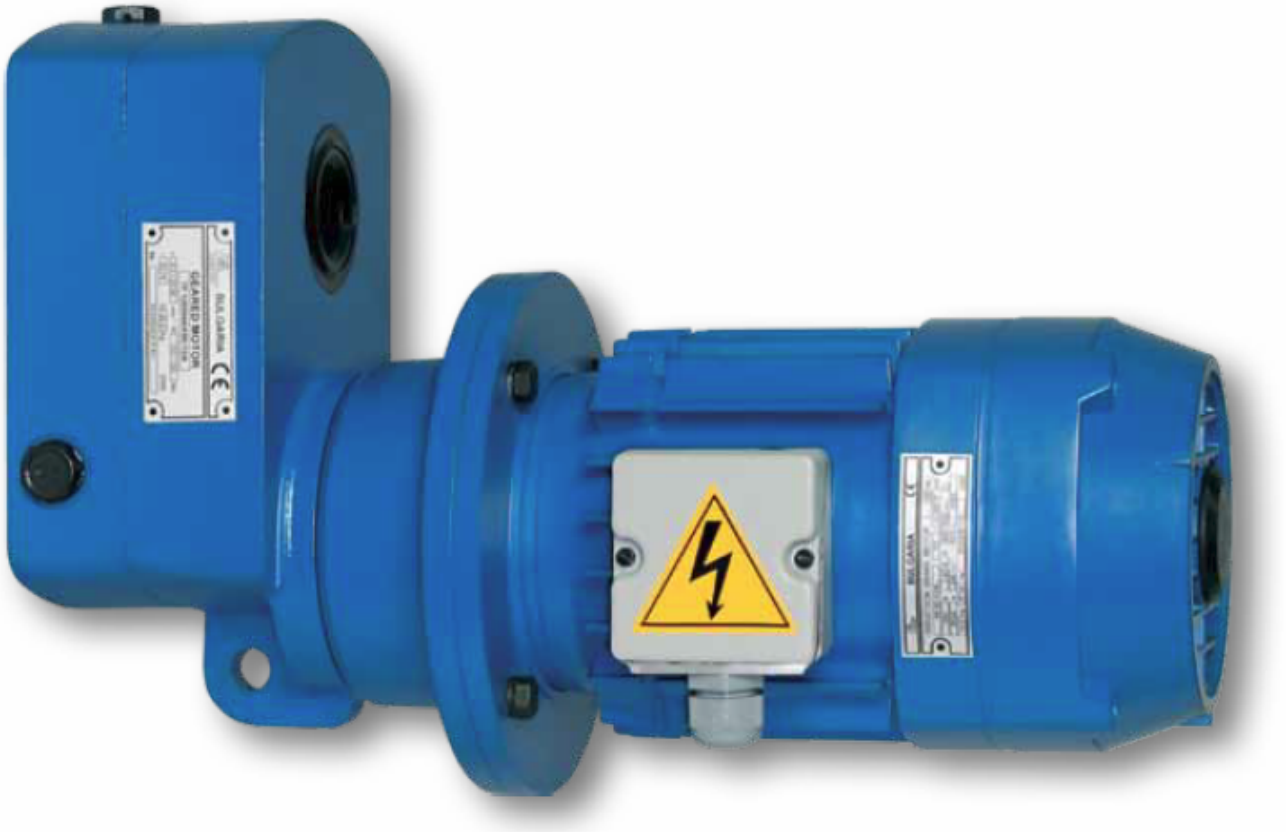
- Getriebemotoren mit Asynchronmotoren, konischen Rotor und eingebauter Bremse
- breite Gamma Ausgangsumlauf und Drehmomenten, laut Kundenvorderungen
- IP54, IP22 der Bremse (EN60529)
- Flanschanschluss-IM B5 (EN60034-7)
- Moeglichkeit fuer Thermoschutz-oder Ex Ausfuehrung
- Variante ,von Motorleistung abhaengig
- Speisespannungsmodifikationen

Anwendung: Antrieb der Krananlage und andere Hubwerke

Reducers and geared motors TP series

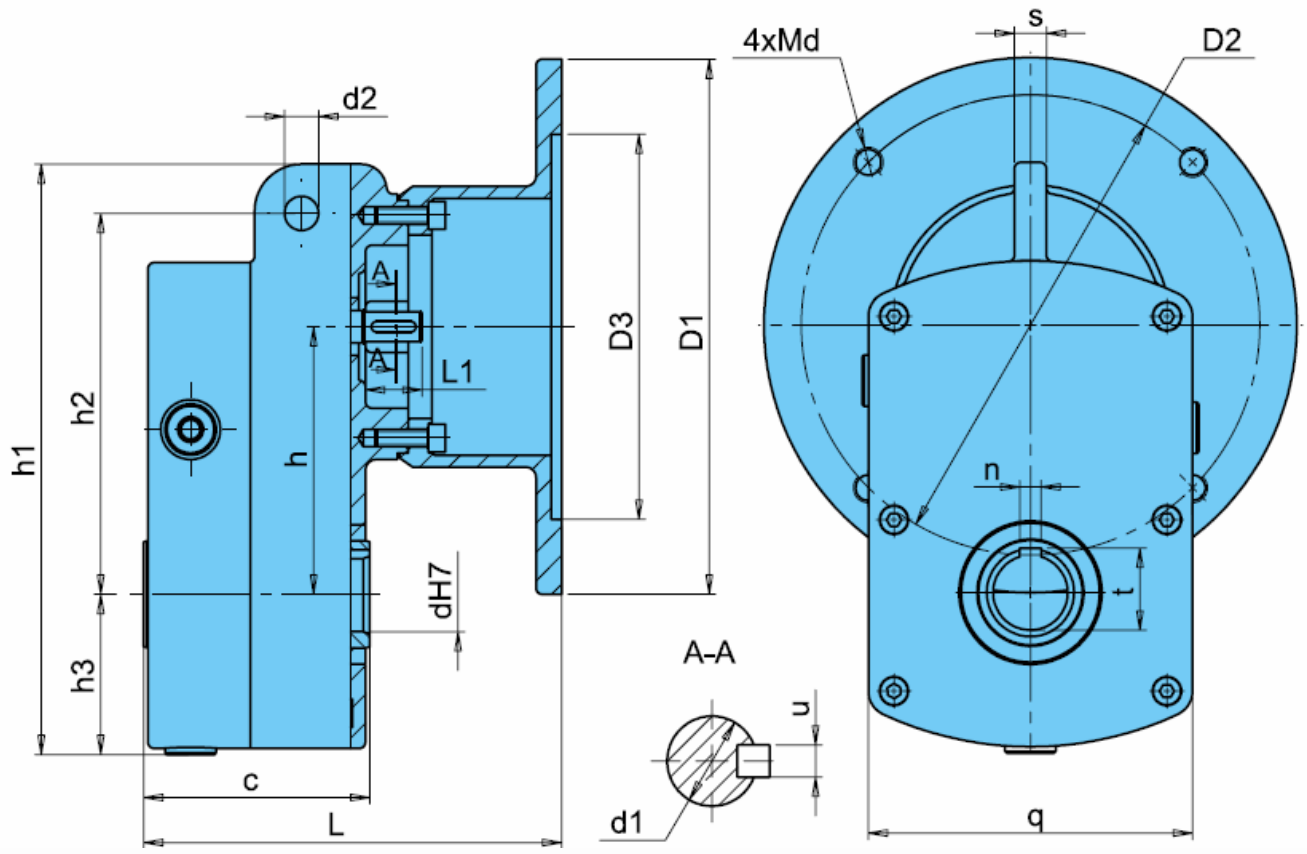
- Geared motor groups including asynchronous brake motors with conical rotor
- Wide range of output speeds and output torques according to client requirements
- IP 54, brake protection IP 22 (EN 60529)
- Flange joining-IM B5 (EN 60034-7)
- Optional thermal or explosion-proof protection
- Modifications by electric motor power
- Different supply voltages on request

Applications: For travelling mechanisms of cranes and other lifting systems



Reduktor mit Flansch / Reducer with flange

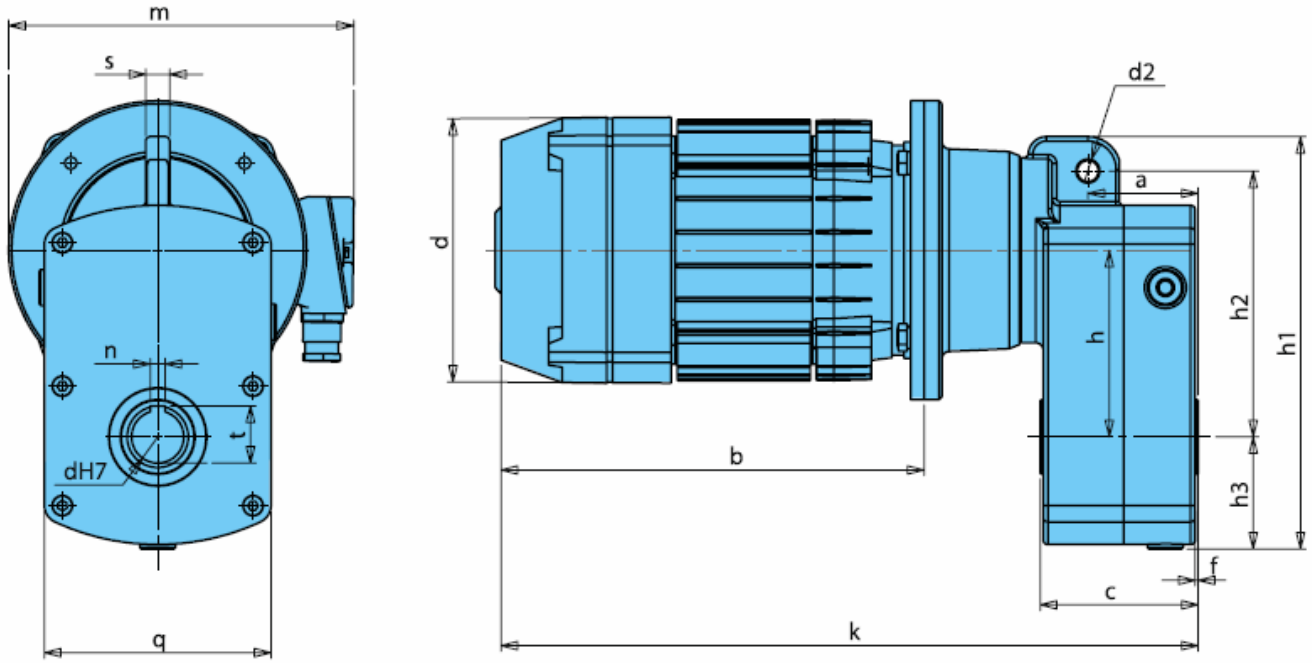
Reduktor Typ - Zusammensetzung: Reducer designation:		
TP	**160**	36
Typ Type	Baugroesse Dimension	Uebersetzungszahl Transmission ratio



Anschlussmasse / Overall dimensions

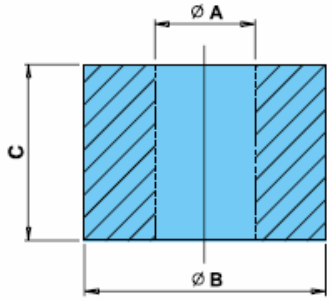
Reduktor Typ Reducer type	fuer motoren typ for motor type	c	L	L1	d2	h	h1	h2	h3	dH7	4xMd	D1	D2	D3	d1	u	n	t	s	q
TP 160	AK 71	97	150.5	22	16	100	243	150	70	30	4xM8	160	130	110	11	4	8	33.3	14	132
	AK 80		170.5								4xM10	200	165	130						
	AK 90		180.5																	
TP 200	AK 71	106	164	27	16	125	280	178	79	35	4xM8	160	130	110	14	5	10	38.3	16	152
	AK 80		184								4xM10	200	165	130						
	AK 90																			
	AK 100		196								4xM12	250	215	180						
TP 250	AK 80	118	198	27	18	145	335	207	95	40	4xM10	200	165	130	16	5	12	43.3	18	180
	AK 90																			
	AK 100		210								4xM12	250	215	180						
TP 315	AK 90	142	221	29	22	174	386	244	109	50	4xM10	200	165	130	19	6	14	53.8	16	210
	AK 100		233								4xM12	250	215	180						

Getriebemotor / Geared motor



Anschlussmasse / Overall dimensions

Typ/Type	a	b	c	d	f	k	m	q	s	d2	h	h1	h2	h3	dH7	n	t
TP1160 AK 71	67.5	255	97	140	1.5	406	195	132	14	16	100	243	150	70	30	8	33.3
TP1160 AK 80		262		160		433	220										
TP1160 AK 90		290		178		471	230										
TP1160 AK 90P		320		178		501	230										
TP1200 AK 71	74	255	106	140	2	419	195	152	16	16	125	280	178	79	35	10	38.3
TP1200 AK 80		262		160		446	220										
TP1200 AK 80P		272		160		456	220										
TP1200 AK 90		290		178		474	230										
TP1200 AK 90P		320		178		504	230										
TP1200 AK 100		356		200		552	261										
TP1200 AK 100P		386		200		582	261										
TP1250 AK 80P	78	272	118	160	2	470	220	180	18	18	145	335	207	95	40	12	43.3
TP1250 AK 90		290		178		488	230										
TP1250 AK 90P		320		178		518	230										
TP1250 AK 100		356		200		566	261										
TP1250 AK 100P		386		200		596	261										
TP1315 AK 90P	98	320	142	178	2	541	230	210	16	22	174	386	244	109	50	14	53.8
TP1315 AK 100		356		200		589	261										
TP1315 AK 100P		386		200		619	261										



ABDICHTUNG / SEAL

Anschlussmasse / Overall dimensions

Reduktor Typ Reducer type	Ø A	Ø B	C
	mm	mm	mm
TP 160/TP 160L	14	41	30
TP 200/TP 200L			
TP 250/TP 250L	17	50	40
TP 315	21	50	40

Getriebemotor / Geared motor

TP 1160	Mmax-250Nm		Nenndaten / Rated data		
2p = 8/2 - 660/2700 min^{-1};2p = 12/4 - 455/1420 min^{-1};			2p = 4 - 1420 min^{-1}		
Typ Type	Leistung Power *kW*	Uebersetzungszahl Transmission ratio -	Start Umdrehung Output Speed *min^{-1}*	Startmoment Output Torque *Nm*	Ansnutzung Faktor Service Factor *f_s*
TP1160 79 AK71B4	0.25	79.08	16.44	137.83	1.81
TP1160 79 AK71B8/2	0.06/0.25		8.34/34.14	65.15/77.90	3.84/3.21
TP1160 79 AK71-8/2	0.06/0.30		8.34/34.14	65.15/93.48	3.84/2.67
TP1160 79 AK80B12/4	0.08/0.25		5.69/17.70	127.41/127.98	1.96/1.95
TP1160 70 AK71B4	0.25	69.89	18.60	121.80	2.05
TP1160 70 AK71B8/2	0.06/0.25		9.44/38.63	57.58/68.85	4.34/3.63
TP1160 70 AK71-8/2	0.06/0.30		9.44/38.63	57.58/82.61	4.34/3.03
TP1160 70 AK80B12/4	0.08/0.25		6.44/20.03	112.61/113.11	2.22/2.21
TP1160 64 AK71B4	0.25	63.72*	20.40	111.05	2.25
TP1160 64 AK71B8/2	0.06/0.25		10.35/42.37	52.50/62.77	4.76/3.98
TP1160 64 AK71-8/2	0.06/0.30		10.35/42.37	52.50/75.32	4.76/3.32
TP1160 64 AK80B12/4	0.08/0.25		7.06/21.97	102.66/103.13	2.43/2.42
TP1160 56 AK71-4	0.37	56.31	23.08	145.25	1.72
TP1160 56 AK80-12/4	0.12/0.37		7.81/24.68	139.18/135.84	1.80/1.84
TP1160 48 AK71-4	0.37	48.69	26.69	125.57	1.99
TP1160 48 AK80-12/4	0.12/0.37		9.04/28.55	120.35/117.46	2.08/2.13
TP1160 47 AK71-4	0.37	46.63	27.88	120.26	2.08
TP1160 47 AK80-12/4	0.12/0.37		9.44/29.81	115.25/112.49	2.17/2.22
TP1160 43 AK71- 4	0.37	43.41*	29.95	111.95	2.23
TP1160 43 AK80-12/4	0.12/0.37		10.14/32.02	107.30/104.72	2.33/2.39
TP1160 39 AK80-4	0.55	39.23	34.41	144.85	1.7
TP1160 39 AK80P12/4	0.18/0.55		11.22/35.69	145.45/139.68	1.72/1.79
TP1160 36 AK80-4	0.55	35.95*	37.55	132.74	1.88
TP1160 36 AK80P12/4	0.18/0.55		12.24/38.94	133.29/128	1.87/1.95
TP1160 33 AK80-4	0.55	33.04	40.86	121.99	2.05
TP1160 33 AK80P12/4	0.18/0.55		13.32/42.37	122.50/117.64	2.04/2.12
TP1160 30 AK80-4	0.55	30.25	44.63	111.69	2.24
TP1160 30 AK80P12/4	0.18/0.55		14.38/46.28	112.15/107.70	2.23/2.32
TP1160 29 AK90-12/4	0.25/0.75	28.66*	15.00/49.20	151.00/138.16	1.66/1.81
TP1160 28 AK90-12/4	0.25/0.75	27.87*	15.43/50.59	146.85/134.35	1.70/1.86
TP1160 22 AK90-12/4	0.25/0.75	22.09	19.46/63.83	116.40/106.49	2.15/2.35
TP1160 20 AK90-4	1.1	20.19	68.85	144.80	1.73
TP1160 20 AK90P12/4	0.37/1.1		20.80/69.84	161.19/142.75	1.55/1.75
TP1160 16 AK90-4	1.1	16.26	85.49	116.62	2.14
TP1160 16 AK90P12/4	0.37/1.1		25.83/86.72	129.82/114.96	1.92/2.17
TP1160 13 AK90P4	1.5	12.54	110.84	122.64	2.04

** Empfehlungsuebersetzungszahl / recommended transmission ratios*

TP 1200	M_{max} = 500Nm	Nenndaten / Rated data

2p = 8/2 - 660/2700 min^{-1};2p = 12/4 - 455/1420 min^{-1}; 2p = 4 - 1420 min^{-1}

Typ Type	Leistung Power *kW*	Uebersetzungszahl Transmission ratio -	Start Umdrehung Output Speed *min^{-1}*	Startmoment Output Torque *Nm*	Ansnutzung Faktor Service Factor *f_s*
TP1200 84 AK71-4	0.37	84.40*	15.99	212.07	2.36
TP1200 84 AK80-12/4	0.12/0.37		5.21/16.47	211.03/205.97	2.37/2.43
TP1200 70 AK80P12/4	0.18/0.55	69.56	6.32/20.13	260.88/250.53	1.92/1.99
TP1200 57 AK80P 4	0.75	57.29	23.74	289.65	1.73
TP1200 57 AK90-12/ 4	0.25/0.75		7.50/24.61	305.37/279.38	1.64/1.79
TP1200 54 AK80P 4	0.75	53.74*	25.30	271.70	1.84
TP1200 54 AK90-12/ 4	0.25/0.75		8.00/26.24	286.45/262.07	1.75/1.91
TP1200 50 AK80P 4	0.75	49.65	27.39	251.02	1.99
TP1200 50 AK90-12/ 4	0.25/0.75		8.66/28.40	264.65/242.12	1.89/2.06
TP1200 50 AK90PB12/4	0.3/0.9		8.46/28.40	325.14/290.55	1.54/1.72
TP1200 44 AK80P 4	0.75	44.29*	30.71	223.92	2.23
TP1200 44 AK90-12/ 4	0.25/0.75		9.71/31.84	236.08/215.98	2.12/2.31
TP1200 44 AK90PB12/4	0.3/0.9		9.48/31.84	290.04/259.18	1.79/2.00
TP1200 43 AK80P 4	0.75	42.70	31.85	215.89	2.32
TP1200 43 AK90-12/ 4	0.25/0.75		10.07/33.02	227.60/208.23	2.20/2.40
TP1200 43AK90PB12/4	0.3/0.9		9.84/33.02	279.62/249.88	1.79/2.00
TP1200 41 AK80P 4	0.75	40.92	33.24	206.89	2.42
TP1200 41 AK90-12/ 4	0.25/0.75		10.51/34.46	218.11/199.55	2.29/2.50
TP1200 41 AK90PB12/4	0.3/0.9		10.26/34.46	267.97/239.46	1.86/2.09
TP1200 40 AK90- 4	1.1	39.72	34.74	290.27	1.72
TP1200 40 AK90PB12/4	0.3/0.9		10.57/35.50	260.11/232.44	1.92/2.15
TP1200 40 AK90P12/4	0.37/1.1		10.57/35.50	320.80/284.09	1.56/1.76
TP1200 35 AK90- 4	1.1	35.19*	39.26	256.87	1.95
TP1200 35 AK90PB12/4	0.3/0.9		11.95/40.11	230.18/205.69	2.17/2.43
TP1200 35 AK90P12/4	0.37/1.1		11.95/40.11	283.89/251.40	1.76/1.99
TP1200 32 AK90- 4	1.1	32.27*	42.76	235.82	2.12
TP1200 32 AK90PB12/4	0.3/0.9		13.01/43.69	260.63/230.81	1.92/2.17
TP1200 32 AK90P12/4	0.37/1.1		13.01/43.69	211.32/188.84	2.37/2.65
TP1200 27 AK90P4	1.5	26.60*	53.00	259.44	1.93
TP1200 27 AK100- 12/4	0.5/1.5		15.79/53.00	290.32/259.44	1.72/1.93
TP1200 25 AK90P4	1.5	24.82	56.81	242.07	2.06
TP1200 25 AK100-12/4	0.5/1.5		16.92/56.81	270.89/242.07	1.84/2.06
TP1200 22 AK90P 4	1.5	21.84*	64.56	213.01	2.35
TP1200 22 AK100-12/4	0.5/1.5		19.23/64.56	238.37/213.01	2.09/2.35
TP1200 18 AK100- 4	2.2	18*	76.67	263.08	1.90
TP1200 18 AK100P12/4	0.75/2.2		23.33/78.33	294.68/257.48	1.70/1.94

* *Empfehlungsuebersetzungszahl / recommended transmission ratios*

TP 1250	M_{max} = 800Nm		Nenndaten / Rated data		
2p = 8/2 - 660/2700 min^{-1};2p = 12/4 - 455/1420 min^{-1}; 2p = 4 - 1420 min^{-1}					
Typ Type	Leistung Power *kW*	Uebersetzungszahl Transmission ratio -	Start Umdrehung Output Speed *min^{-1}*	Startmoment Output Torque *Nm*	Ansnutzung Faktor Service Factor *f_s*
TP1250 88AK90-12/4	0.25/0.75	87.53	4.91/16.11	461/422	1.73/1.9
TP1250 72AK90-12/4	0.25/0.75	72.30*	5.95/19.50	381/348	2.10/2.3
TP1250 66AK90-12/4	0.25/0.75	65.82	6.53/21.42	347/317	2.30/2.52
TP1250 61AK90-4	1.1	60.87	22.67	440	1.82
TP1250 61AK90P12/4	0.37/1.1		6.90/23.16	486/430	1.65/1.86
TP1250 54AK90-4	1.1	54.37*	25.38	393	2.04
TP1250 54AK90P12/4	0.37/1.1		7.72/25.93	434/384	1.84/2.08
TP1250 52AK90-4	1.1	51.99	26.54	376	2.13
TP1250 52AK90P12/4	0.37/1.1		8.08/27.12	415/368	1.93/2.18
TP1250 48AK90-4	1.1	48.24	28.61	348	2.30
TP1250 48AK90P12/4	0.37/1.1		8.71/29.23	385/341	2.08/2.35
TP1250 46AK90P4	1.5	45.78*	30.14	451	1.77
TP1250 46 AK100-12/4	0.5/1.5		8.74/30.58	519/444	1.54/1.80
TP1250 39AK90P4	1.5	39.09	35.30	385	2.08
TP1250 39 AK100-12/4	0.5/1.5		10.23/35.81	443/380	1.80/2.10
TP1250 36AK90P4	1.5	36.28*	38	357	2.24
TP1250 36 AK100-12/4	0.5/1.5		11.02/38.59	411/352	1.95/2.27
TP1250 27AK100-4	2.2	26.59*	51.90	384	2.08
TP1250 27AK100P12/4	0.75/2.2		15.04/52,65	452/379	1.77/2.11
Tp1250 20AK100P4	3.0	20.00	69.50	391	2.05
TP1250 16AK100P4	3.0	15.71	88.48	307	2.60
TP 1315	**M_{max} = 1200Nm**		**Nenndaten / Rated data**		
2p = 8/2 - 660/2700 min^{-1}; 2p = 12/4 - 455/1420 min^{-1}; 2p = 4 - 1420 min^{-1}					
TP1315 86 AK90P12/4	0.37/1.1	86.03	4.88/16.39	680.6/602.5	1.76/1.77
TP1315 78 AK90P12/4	0.37/1.1	77.86	5.39/18.11	616.2/545.3	1.94/2.2
TP1315 71 AK90P4	1.5	70.56*	19.56	695.12	1.73
TP1315 71 AK100-12/4	0.5/1.5		5.95/19.98	754.4/673.9	1.59/1.78
TP1315 65 AK90P4	1.5	65.07	21.21	641.0	1.87
TP1315 65 AK100-12/4	0.5/1.5		6.45/21.67	695.9/621.4	1.72/1.93
TP1315 60 AK90P4	1.5	59.83	23.07	589.39	2.04
TP1315 60 AK100-12/4	0.5/1.5		7.02/23.57	639.4/571.3	1.88/2.10
TP1315 58 AK90P4	1.5	58.89*	23.43	580.15	2.07
TP1315 58 AK100-12/4	0.5/1.5		7.13/23.94	629.5/562.5	1.91/2.13
TP1315 54 AK90P4	1.5	54.15	25.48	533.46	2.25
TP1315 54 AK100-12/4	0.5/1.5		7.76/26.04	578.4/517.1	2.07/2.32
TP1315 51 AK90P4	1.5	51.10	27.01	503.41	2.38
TP1315 51 AK100-12/4	0.5/1.5		8.22/27.59	546.0/488.0	2.2/2.46
TP1315 46 AK100-4	2.2	46.24	29.84	668.8	1.79
TP1315 46 AK100P12/4	0.75/2.2		9.08/30.49	741.5/647.7	1.62/1.85
TP1315 45 AK100-4	2.2	44.98*	30.68	650.56	1.84
TP1315 45 AK100P12/4	0.75/2.2		9.34/31.35	720.85/630.0	1.66/1.90
TP1315 41 AK100-4	2.2	41.35*	33.37	598.06	2.01
TP1315 41 AK100P12/4	0.75/2.2		10.16/34.10	662.7/579.2	1.81/2.07
TP1315 35 AK100P4	3.0	35.32*	39.35	684.4	1.75
TP1315 35 AK100P12/4	0.75/2.2		11.89/39.92	566.25/494.7	2.12/2.42
TP1315 30 AK100P4	3.0	29.60	46.96	573.5	2.09
TP1315 30 AK100P12/4	0.75/2.2		14.19/47.64	474.5/414.6	2.53/2.89
TP1315 27 AK100P4	3.0	26.79*	51.88	519.1	2.31
TP1315 27 AK100P12/4	0.75/2.2		15.68/52.63	429.4/375.2	2.79/3.20
TP1315 20 AK100P4	3.0	20.46	67.94	396.4	3.03
TP1315 20 AK100P12/4	0.75/2.2		20.53/68.91	327.9/286.6	3.66/4.19

** Empfehlungsuebersetzungszahl / recommended transmission ratios*

L.T.D. for projecting, manufacture, instalation and maintenance cranes, elevators and other machines

"PRIM CO COMPANY"

DONJA ORAHOVICA

Asynchronmotoren,Serie AK mit eingebauter Bremse fuer Getriebemotoren

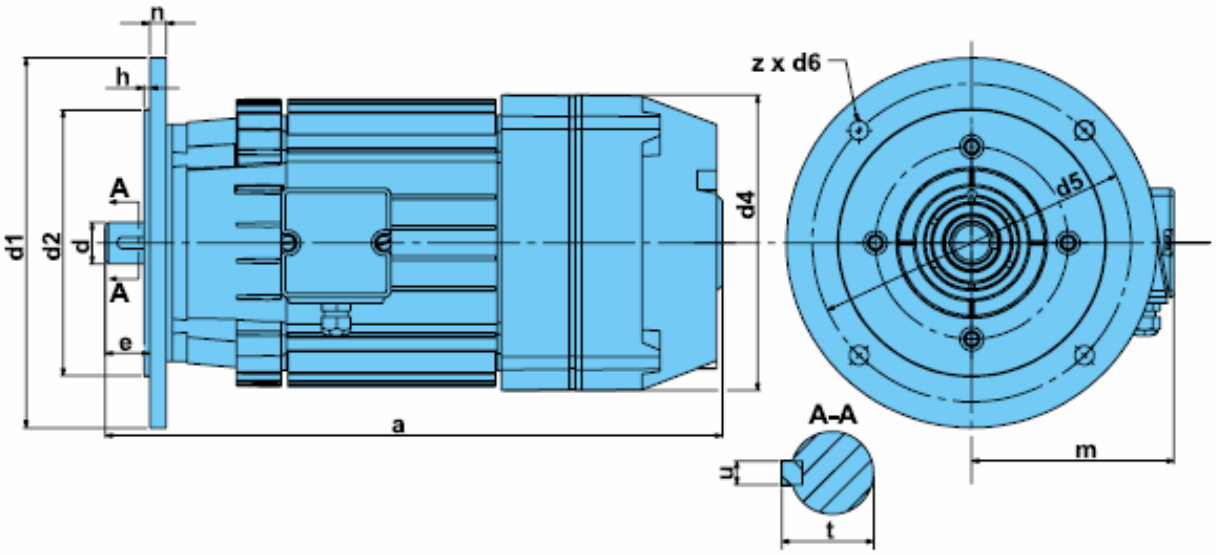
- Modifikationen Spannung nach, 50 Hz / 60 Hz
- Isolierklasse F
- Wellenaxialgang 0,5÷1,0 mm
- IP 54, IP22 der Bremse (EN60529)
- Flanschausfuehrung-IM B5 (EN 60034-7)
- Moeglichkeit um Thermoschutz einzubauen

Asynchronous electric motors AK series with built-in brake for geared motors

- Voltage modifications, 50 Hz / 60 Hz
- Insulation class F
- Axial shaft run 0,5 ÷ 1,0 mm
- IP 54, brake protection IP 22 (EN 60529)
- Flange joining-IM B5 (EN 60034-7)
- Optional overheat protection

GEARED MOTOR

Leistung Power	Typ Type	Drehzahe Speed of revolution	Spannung Voltage	Arbeitsregime Duty cycle		Strom Current	Startmoment Starting torque	Startmoment Braking torque	Gewicht Weight
				CD	SF				
kW	-	min^{-1}	V	%	sw/h	A	Nm	Nm	kg
0,06/0,25	AK 71B 8/2	660/2700	400	15/25	180	1,2/0,75	2,6/2,6	1,25	11
0,06/0,3	AK 71 8/2					1,2/1,2		1,5	
0,25	AK 71B 4	1350	400/230	40	240	0,85/1.5	5,0	1,3-1,9	11
0,37	AK 71-4					1.3/2.3	6,5	2,2-3,0	
0,08/0,25	AK 80B12/4	450/1400	400	20/40	240	0,9/0,85	3,2/3,2	1,3 - 1,6	14,5
0,12/0,37	AK 80-12/4	440/1390		20/40	240	1.3/1.3	4,5/4,0	2,4 - 2,8	
0,12/0,37	AK 80PD12/4	440/1400		25/50	300	1,4/1,3	6,0/5,4	2,4-2,8	15
0,18/0,55	AK 80P12/4	440/1400		20/40	240	1,8/1,7	7,2/7,2	3,6-4,1	
0,25	AK 80BM 4	1400	400/230	40	240	0,85/1,5	3,2	1,3-1,6	14
0,37	AK 80M4	1390				1,3/2,3	4,0	2,4-2,8	
0,55	AK 80-4	1350				1,8/3,1	10,0	3,6-4,1	
0,55	AK 80PM4	1400				1,7/2,9	7,2	3,6-4,1	15
0,75	AK 80P4	1360				2,1/3,6	14,0	4,4-5,2	
0,18/0,55	AK 90D12/4	430/1410	400	25/50	300	1,6/1,5	7,0/7,0	3,2-3,8	21
0,25/0,75	AK 90-12/4	430/1410		20/40	240	2,4/2,0	9,0/9,0	4,9-5,7	
0,25/0,75	AK 90PD12/4	420/1410		25/50	300	2,0/1,9	8,0/8,0	4,9-5,7	24
0,3/0,9	AK 90PB12/4	420/1410		25/50	300	2,4/2,4	11,0/11,0	6,8-7,8	
0,37/1,1	AK 90P12/4	420/1410		20/40	240	3,4/3,4	13,5/13,5	6,8-7,8	
0,75	AK 90M4	1410	400/230	40	240	2,0/3,5	9,0	4,9-5,7	21
1,1	AK 90-4	1380				2,7/4,7	15,0	6,8-7,8	
1,1	AK 90PM4	1410				3,4/5,9	13,5	6,8-7,8	24
1,5	AK 90P4	1380				4,1/7,1	30,0	9,0-10,0	
0,37/1,1	AK 100D12/4	390/1390	400	25/50	300	3,2/3,4	12,0/18,0	5.4-6.4	32
0,5/1,5	AK 100-12/4	420/1410		20/40	240	4,5/4,3	17,0/23,0	6,8-7,8	
0,5/1,5	AK 100PD 12/4	390/1400		25/50	300	4,2/5,1	17,0/23,0	6,8-7,8	36,5
0,75/2,2	AK 100P12/4	420/1410		20/40	240	6,4/6,8	25,0/33,0	9,3-10,7	
2,2	AK 100-4	1380	400/230	40	240	5,2/9,0	35,0	9,3-10,7	32
3,0	AK 100P4					6,6/11,5	46,0	13,5-15,5	36,5



Typ Type	Abmessungen / Dimensions										Welle / Shaft		
	a	m	e	h	n	d1	d2	d4	d5	z x d6	d	t	u
AK 71	285	115	30	3.5	9	160	110	140	130	4x9	14	16	5
AK 80/AK 80 P	302/312	120	40	3.5	10	200	130	160	165	4x11	19	21.5	6
AK 90/AK 90 P	340/370	130	50	3.5	10	200	130	178	165	4x11	24	27	8
AK 100/AK 100 P	416/446	136	60	4.0	11	250	180	200	215	4x13	28	31	8