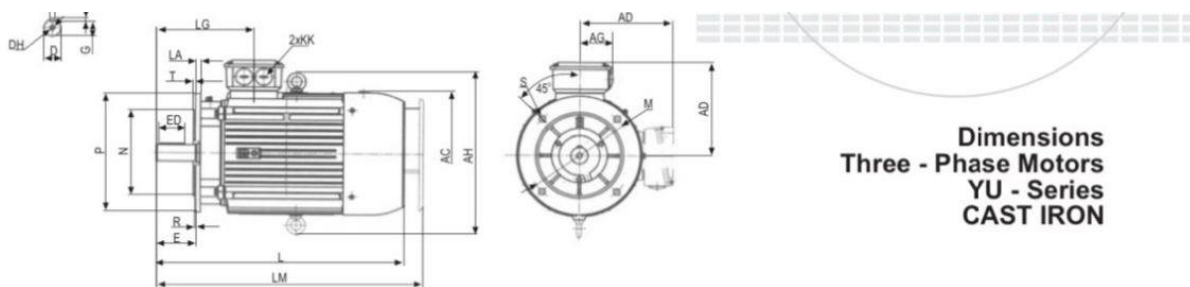


ELECTRIC MOTOR :
YU 4P 1,1KW 1,5HP 3PHASE 380V B5

HELICAL GEAR :
YMM CHCZ 01 P90 B5 R. 4.63 dan OUTPUT FLANGE II CHC SERIES 01



Motor Type	AC	AD	AH	D	E	ED	F	G	GD	KK	L	LA	LG	LM	M	N	P	S	T
YU 80	175	140	-	19	40	25	6	15.5	6	M25X1.5	295	10	140	-	165	130	200	12	3.5
YU 90S	190	150	-	24	50	40	8	20	7	M25X1.5	320	12	124	-	165	130	200	12	3.5
YU 90L	190	150	-	24	50	40	8	20	7	M25X1.5	345	12	124	-	165	130	200	12	3.5
YU 100	215	160	290	28	60	45	8	24	7	M32X1.5	385	12	140	-	215	180	250	14.5	4
YU 112	236	185	310	28	60	45	8	24	7	M32X1.5	415	12	145	-	215	180	250	14.5	4
YU 132S	275	205	360	38	80	63	10	33	8	M32X1.5	490	13	169	-	265	230	300	14.5	4
YU 132M	275	205	360	38	80	63	10	33	8	M32X1.5	520	13	169	-	265	230	300	14.5	4
YU 160M	330	250	450	42	110	90	12	37	8	M40X1.5	610	15	270	655	300	250	350	18.5	5
YU 160L	330	250	450	42	110	90	12	37	8	M40X1.5	655	15	270	710	300	250	350	18.5	5
YU 180M	380	270	480	48	110	90	14	42.5	9	M40X1.5	680	15	277	735	300	250	350	18.5	5
YU 180L	380	270	480	48	110	90	14	42.5	9	M40X1.5	720	15	277	775	300	250	350	18.5	5
YU 200	420	325	530	55	110	90	16	49	10	M50X1.5	775	17	300	840	350	300	400	18.5	5
YU 225S(4-8P)	465	335	580	60	140	110	18	53	11	M50X1.5	852	20	340	890	400	350	450	18.5	5
YU 225M(2P)	465	335	580	55	110	90	16	49	10	M50X1.5	850	20	310	895	400	350	450	18.5	5
YU 225M(4-8P)	465	335	580	60	140	110	18	53	11	M50X1.5	850	20	340	920	400	350	450	18.5	5
YU 250M(2P)	520	370	625	60	140	110	18	53	11	M63X1.5	925	20	353	1005	500	450	550	18.5	5
YU 250M(4-8P)	520	370	625	65	140	110	18	58	11	M63X1.5	925	20	353	1005	500	450	550	18.5	5
YU 280S(2P)	570	370	700	65	140	110	18	58	11	M63X1.5	1000	22	350	1085	500	450	550	18.5	5
YU 280S(4-8P)	570	370	700	75	140	110	20	67.5	12	M63X1.5	1010	22	350	1090	500	450	550	18.5	5
YU 280M(2P)	570	370	700	65	140	110	18	58	11	M63X1.5	1000	22	350	1090	500	450	550	18.5	5
YU 280M(4-8P)	570	370	700	75	140	110	20	67.5	12	M63X1.5	1010	22	350	1090	500	450	550	18.5	5
YU 315S(2P)	650	495	870	65	140	110	18	58	11	M63X1.5	1160	24	387	1288	600	550	660	24	6
YU 315M(2P)	650	495	870	65	140	110	18	58	11	M63X1.5	1270	24	387	1368	600	550	660	24	6
YU 315L(2P)	650	495	870	65	140	110	18	58	11	M63X1.5	1270	24	387	1368	600	550	660	24	6
YU 315S(4-10P)	650	495	870	80	170	140	22	71	14	M63X1.5	1190	24	417	1398	600	550	660	24	6
YU 315M(4-10P)	650	495	870	80	170	140	22	71	14	M63X1.5	1300	24	417	1398	600	550	660	24	6
YU 315L(4-10P)	650	495	870	80	170	140	22	71	14	M63X1.5	1300	24	417	1398	600	550	660	24	6



CHC..P(IEC)

Foot-mounted helical gear unit



CHC..HS

Shaft input foot-mounted helical gear unit



CHCF..P(IEC)

Flange-mounted helical gear unit



CHCF..HS

Shaft input flange-mounted helical gear unit



CHCZ..P(IEC)

B14 Flange-mounted helical gear unit



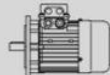
CHCZ..HS

Shaft input B14 flange-mounted helical gear unit

CHC..01..P(IEC)

i	63B5	71B5 71B14	80B5 80B14	90B5 90B14
53.33				
45.89				
40.10				
35.47				
28.50				
23.56				
19.83				
17.86				
14.62				
13.80*				
11.90				
9.81				
9.17				
7.72				
5.69				
4.63				
3.82				

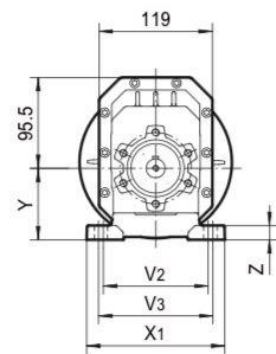
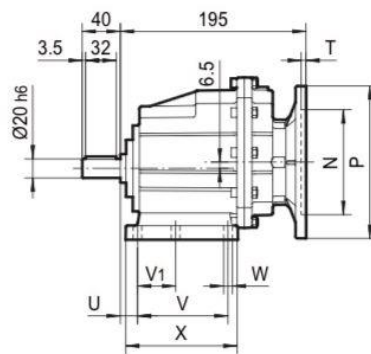
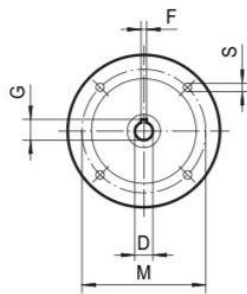
P _{1n} [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	fs			Page	
0.75	17.5	392	51.30*	0.77	CHC03	90B5/B14	90S6	25
	20.4	338	44.18*	0.89	CHCF03	90B5/B14	90S6	25
	23.3	295	38.63	1.0	CHCZ03	90B5/B14	90S6	25
	26.3	261	34.20*	1.1				
	29.4	234	30.57	1.3				
	36.0	191	24.99	1.6				
	27.3	252	51.30*	1.2	CHC03	80B5/B14	8024	25
	31.7	217	44.18*	1.4	CHCF03	80B5/B14	8024	25
	36.2	190	38.63	1.6	CHCZ03	80B5/B14	8024	25
	40.9	168	34.20*	1.8				
	45.8	150	30.57	2.0				
	56.0	123	24.99	2.4				
	66.2	104	21.15*	2.7				
	72.8	94	19.24*	3.0				
	76.9	89	18.21*	3.1				
	91.5	75	15.30*	3.7				
	105	65	13.30*	3.8				
	111	62	12.60	4.0				
	17.5	392	51.30*	1.3	CHC04	90B5/B14	90S6	27
	20.4	338	44.18*	1.5	CHCF04	90B5/B14	90S6	27
	23.3	295	38.63	1.7	CHCZ04	90B5/B14	90S6	27
	26.3	261	34.20*	1.8				
	29.4	234	30.57	2.1				
	27.3	252	51.30*	2.0	CHC04	80B5/B14	8024	27
	31.7	217	44.18*	2.3	CHCF04	80B5/B14	8024	27
	36.2	190	38.63	2.6	CHCZ04	80B5/B14	8024	27
	40.9	168	34.20*	2.9				
	45.8	150	30.57	3.2				
	56.0	123	24.99	3.9				
	66.2	104	21.15*	4.0				
1.1	70.6	143	19.83	0.84	CHC01	90B5/B14	90S4	21
	78.4	129	17.86	0.78	CHCF01	90B5/B14	90S4	21
	95.8	105	14.62	1.1	CHCZ01	90B5/B14	90S4	21
	101	99	13.80*	1.0				
	118	86	11.90	1.4				
	143	71	9.81	1.4				
	153	66	9.17	1.2				
	181	56	7.72	1.4				
	246	41	5.69	1.5				
	302	33	4.63	1.8				
	366	28	3.82	2.2				
	285	35	9.81	2.8	CHC01	80B5/B14	8022	21
	305	33	9.17	2.4	CHCF01	80B5/B14	8022	21
	363	28	7.72	2.9	CHCZ01	80B5/B14	8022	21
	492	20	5.69	2.9				
	605	17	4.63	3.6				
	733	14	3.82	4.4				
	39.0	259	35.91*	0.77	CHC02	90B5/B14	90S4	23
	48.5	208	28.88*	1.0	CHCF02	90B5/B14	90S4	23
	58.7	172	23.85*	1.2	CHCZ02	90B5/B14	90S4	23
	69.7	145	20.08*	1.4				
	81.9	123	17.10	1.3				

P _{1n} [kW]	n ₂ [r/min]	M _{2n} [Nm]	i	fs			Page	
1.1	94.5	107	14.81*	1.9	CHC02	90B5/B14	90S4	23
	106	95	13.21	1.7	CHCF02	90B5/B14	90S4	23
	116	87	12.05	2.3	CHCZ02	90B5/B14	90S4	23
	141	72	9.93	2.2				
	159	63	8.78	1.9				
	189	53	7.39	2.3				
	257	39	5.45	2.5				
	316	32	4.43	3.1				
	383	26	3.66	3.8				
	27.3	370	51.30*	0.81	CHC03	90B5/B14	90S4	25
	31.7	318	44.18*	0.94	CHCF03	90B5/B14	90S4	25
	36.2	278	38.63	1.1	CHCZ03	90B5/B14	90S4	25
	40.9	246	34.20*	1.2				
	45.8	220	30.57	1.4				
	56.0	180	24.99	1.7				
	66.2	152	21.15*	1.8				
	72.8	139	19.24*	2.0				
	76.9	131	18.21*	2.1				
	91.5	110	15.30*	2.5				
	72.5	139	38.63	2.2	CHC03	80B5/B14	8022	25
	81.9	123	34.20*	2.4	CHCF03	80B5/B14	8022	25
	91.6	110	30.57	2.7	CHCZ03	80B5/B14	8022	25
	112.0	90	24.99	3.3				
	132.4	76	21.15*	3.7				
	145.5	69	19.24*	4.0				
	153.8	66	18.21*	4.3				
	27.3	370	51.30*	1.4	CHC04	90B5/B14	90S4	27
	31.7	318	44.18*	1.6	CHCF04	90B5/B14	90S4	27
	36.2	278	38.63	1.8	CHCZ04	90B5/B14	90S4	27
	40.9	246	34.20*	1.9				
	45.8	220	30.57	2.2				
	56.0	180	24.99	2.7				
	66.2	152	21.15*	2.8				
	72.8	139	19.24*	3.0				
	76.9	131	18.21*	3.2				
	91.5	110	15.30*	3.8				
	105	96	13.30*	3.7				
1.5	118	117	11.90	1.0	CHC01	90B5/B14	90L4	21
	143	96	9.81	1.0	CHCF01	90B5/B14	90L4	21
	153	90	9.17	0.9	CHCZ01	90B5/B14	90L4	21
	181	76	7.72	1.1				
	246	56	5.69	1.1				
	302	45	4.63	1.3				
	366	38	3.82	1.6				
	305	45	9.17	1.8	CHC01	90B5/B14	90S2	21
	363	38	7.72	2.1	CHCF01	90B5/B14	90S2	21
	492	28	5.69	2.1	CHCZ01	90B5/B14	90S2	21
	605	23	4.63	2.6				
	733	19	3.82	3.2				

8. OUTLINE DIMENSION SHEET

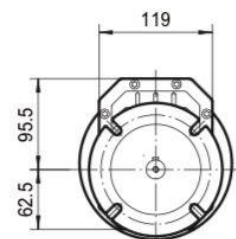
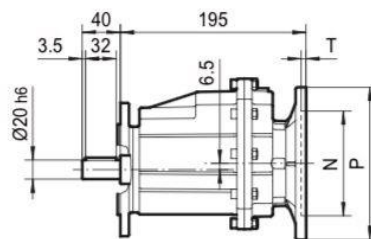
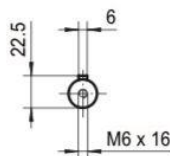
CHC01..P(IEC)

INPUT

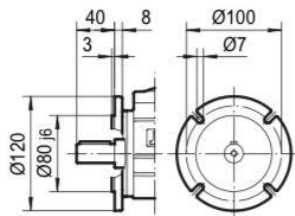


CHCF01..P(IEC)

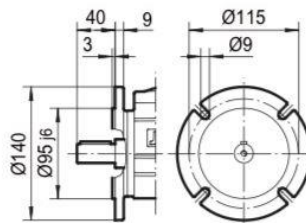
OUTPUT



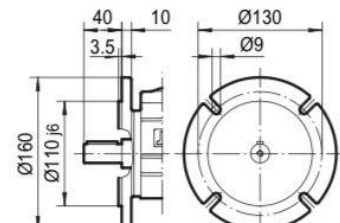
I Ø120



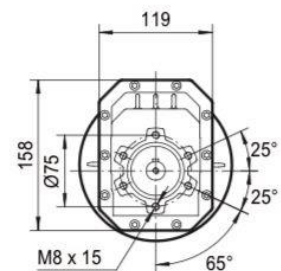
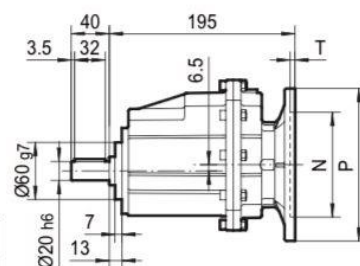
II Ø140



III Ø160



CHCZ01..P(IEC)

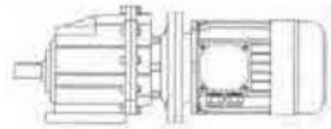
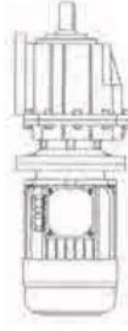
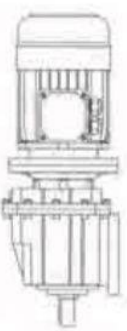
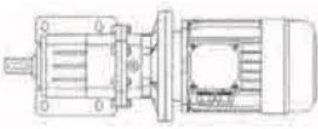
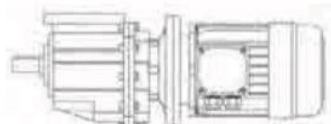
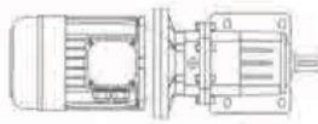


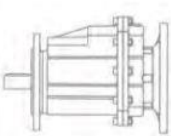
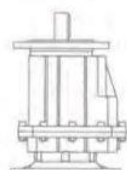
IEC	D	F	G	P	M	N	S	T
63B5	11	4	12.8	140	115	95	9	5
71B5	14	5	16.3	160	130	110	9	5
71B14	14	5	16.3	105	85	70	7	5
80B5	19	6	21.8	200	165	130	11	5
80B14	19	6	21.8	120	100	80	7	5
90B5	24	8	27.3	200	165	130	11	5
90B14	24	8	27.3	140	115	95	9	5

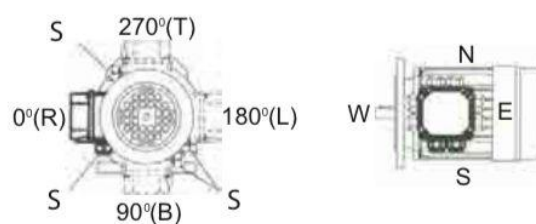
Foot Code	U	V	V1	V2	V3	W	X	X1	Y	Z
B01	18	87	50	110	—	9	118	130	85	15
M01	18	80	—	110	120	9	118	145	75	15
M02	25	85	—	110	120	9	112	145	75	15
B02	18	107.5	60	—	130	11	136	155	95	17

MOUNTING POSITIONS

9. MOUNTING POSITION AND TERMINAL BOX ORIENTATION

CHC..	M1	M2	M4	M5
				
M3				M6
				

CHCF..	M1	M2	M4
			



10. LUBRICATION

10.1 Type of Lubrication

	 °C -50 0 +50 +100	 ISO	 SHELL	 MOBIL	 BP	lubrication type
CHC..	Standard -10 +40	VG 220	Shell Omala 220	Mobilgear 630	BP Energol GR-XP 220	Mineral oil
	-20 +25	VG 150 VG 100	Shell Omala 100	Mobilgear 627	BP Energol GR-XP 100	
	-30 +10	VG 68-46 VG 32	Shell Tellus T 32	Mobil D.T.E. 13M		
	-40 -20	VG 22 VG 15	Shell Tellus T 15	Mobil D.T.E. 11M	BP Energol HLP-HM 15	
	-40 +80	VG 220	Shell Omala HD 220	Mobil SHC 630		Synthetic oil
	-40 +40	VG 150	Shell Omala HD 150	Mobil SHC 629		
	-40 +10	VG 32		Mobil SHC 624		

10.2 Lubricant fill quantity

Gear units	Fill quantity in liters						unit: (L)
	M1	M2	M3	M4	M5	M6	
CHC..01..	0.4	0.6	0.4	0.3	0.3	0.3	
CHC..02..	0.5	0.7	0.5	0.4	0.4	0.4	
CHC..03..	0.8	1.1	0.8	0.6	0.6	0.6	
CHC..04..	1.2	1.6	1	1	0.9	0.9	

The fill quantity in the table is referenced, the exact value relating to the ratio.

All CHC Series helical gear units are filled with life lubrication before delivery, do not need to change it in general.

11. INSTALLATION METHODS**11.1 Preparation before the installation**

- 1). Check if the data on the nameplates of the gearmotor matches
The voltage supply system.
- 2). For standard gear unit, the ambient temperature must be in
accordance with the corresponding lubricant table.
- 3). The drive must not be assembled in conditions such as
Oil, gas, vapors, acids, radiation and so on.
- 4). Output shaft and flange surfaces must thoroughly cleaned
To ensure they are free of anticorrosion agents, contamination or
similar. Use a commercially available solvent. Do not let the solvent
come into contact with the sealing lip of the oil seals, or will damage the material!
- 5). The supporting structure must have the following characteristics:
level, vibration damping and torsionally rigid.

11.2 The installation of the gear units

- 1). Do not tighten the housing legs and mounting flanges against one another
and ensure that you comply with the permitted radial load and axial load.
- 2). Never drive belt pulleys, couplings, pinions, etc. onto the shaft end by hitting
them with a hammer. This will damage the bearing, housing and the shaft.
- 3). Prior to startup, check that if the oil level is as specified for the mounting position.
if the oil checking and drain screw and the breather valves are free accessible.



PT. APINDO MITRA SELARAS
Process Instrumentation - Rotating Equipment - Fabrication & Machining

Head Quarter

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Kompl. LIGA blok D5-05 & D4-17
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