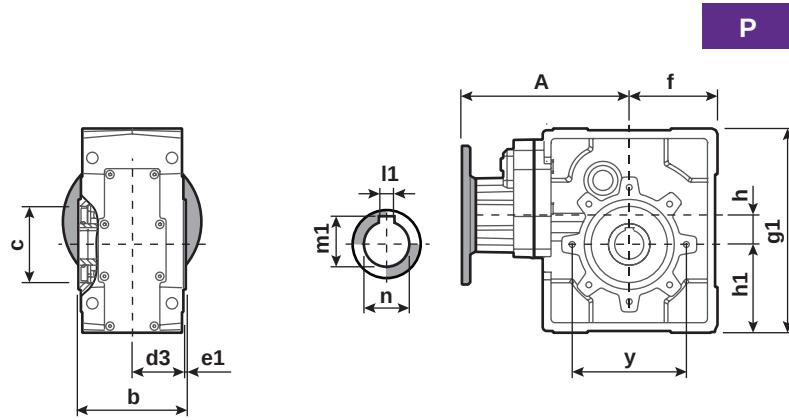
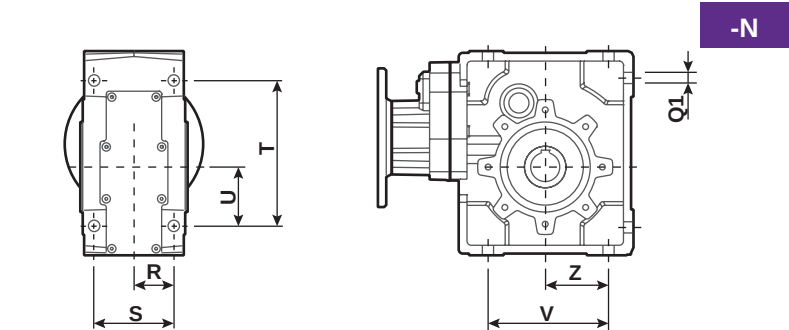


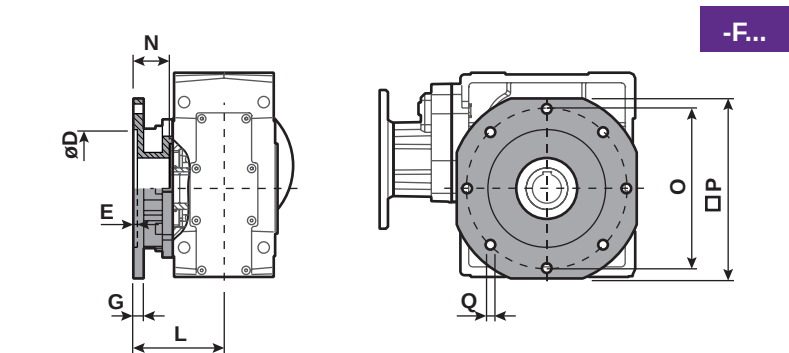


	b	c (ø)	d3	e1	f	g1	h	h1	y	l1	m1	n (H7)
113C	155	130 17	74	3.5	127.5	295	42.5	127.5	165	12	45.3	42
114C	155	130 17	74	3.5	127.5	295	4.5	127.5	165	12	45.3	42
133C	170	180 17	81	4	147.5	335	58.3	147.5	215	14	48.8	45
134C	170	180 17	81	4	147.5	335	20.3	147.5	215	14	48.8	45

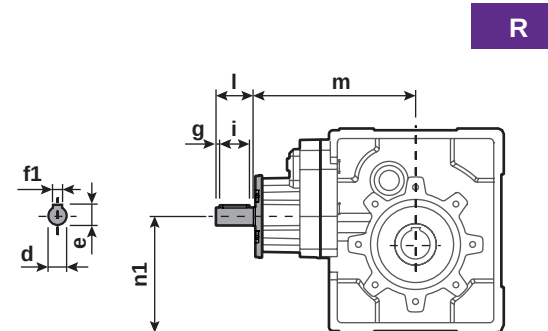
o		A														
113C	7185	80-90B5	100/112B5	132B5	80B14	90B14	100/112B14	132B14	240.5	242.5	248.5	270	240.5	240.5	251.5	270
	6385	7185	80-90B5	71B14	80B14	90B14										
114C	252.5	250.5	252.5	250.5	251.5	252.5										
	7185	80-90B5	100/112B5	132B5	80B14	90B14	100/112B14	132B14								
133C	251	253	259	280.5	251	251	262	280.5								
	6385	7185	80-90B5	71B14	80B14	90B14										
134C	263	261	263	261	262	263										



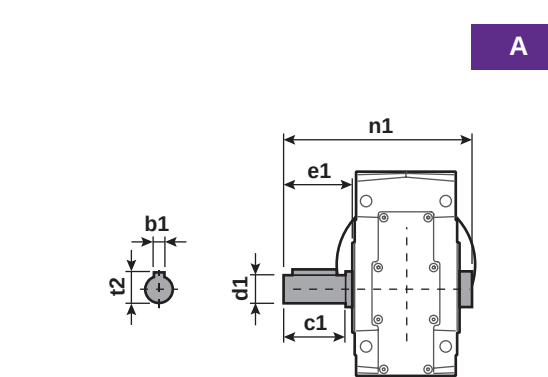
o	Q1	R	S	T	U	V	Z
113C	ø14.5	57.5	115	210	85	170	85
114C	ø14.5	57.5	115	210	85	170	85
133C	ø16	60	120	240	100	200	100
134C	ø16	60	120	240	100	200	100



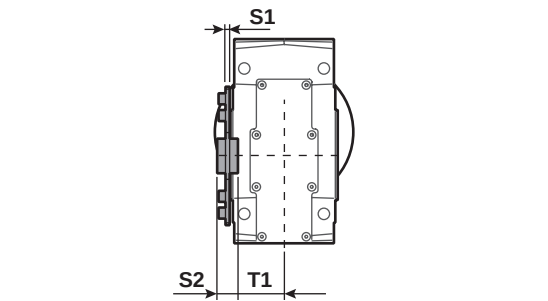
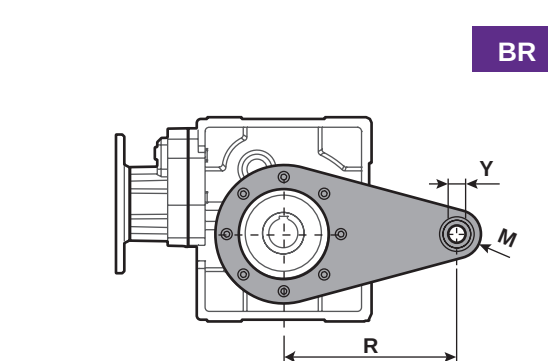
o	Type	øD	E	G	L	N	O	P	Q	Kit code
113C	C	170 H8	6	15	131	53.5	ø230	260	14	K11C.9.010
114C	L	170 H8	6	15	180	102.5	ø230	260	14	K11C.9.011
133C	C	180 H8	6	15	140	55	ø255	290	16	KQ13.9.010
134C										



o	d (H6)	e	f1	g	i	l	m	n1
113C	ø24	27	8	5	40	50	234	170
114C	ø19	21.5	6	2.5	30	35	243	132
133C	ø24	27	8	5	40	50	244.5	205.8
134C	ø19	21.5	6	2.5	30	35	253.5	167.8



o	b1	c1	d1 (H6)	e1	n1	t2
113C	12	80	ø42	84.5	249	45
114C	12	80	ø42	84.5	249	45
133C	14	80	ø45	85	265	48.5
134C	14	80	ø45	85	265	48.5



o	Y	M	R	S1	S2	T1
113C	25	35	250	6	30	62
114C						
133C	25	35	250	6	30	69
134C						

Type Tipo	Size Grandezza	Mounting Montaggio	Ratio Rapporto	Output shaft Albero uscita	Type Tipo	Output flange Flangia uscita	Motor size Grandezza motore	Terminal box position Posizione morsetteria	Mounting position Posizione montaggio
M	X22S	C	4.83	A	BR	N	-O	B	B3
With IEC motor	ALUMINUM	Hollow output shaft	See technical data table Vedi tabelle dati tecnici	Hollow output shaft	Universal	N	Standard Flange Flangia Standard	STANDARD	
M	2 Stages Riduzioni	C			FB	X22S	B5	A	B3
With motor flange	X22S X32S X42A X52A X62A	Single output shaft				0 ⇒ Ø110 1 ⇒ Ø120	-A=56 (ø120) B=63 (ø140) C=71 (ø160) D=80 (ø200) E=90 (ø200) F=100+112 (ø250) G=132 (ø300)	B	B6
P	3 Stages Riduzioni	A			BR	X32/3S X42/3A	B14	C	B8
R	X33S X43A X53A X63A	Double output shaft only for 113/4C - 133/4C				1 ⇒ Ø120 2 ⇒ Ø160 X42/3A-X52/3A X62/3A	O=56 (ø80) P=63 (ø90) Q=71 (ø105) R=80 (ø120) T=90 (ø140) U=100+112 (ø160) V=132 (ø200)	D	
B	CAST-IRON	Shrink disk (only on the DX side)				113/4C	Without flange Senza flangia		
	113C 133C	Only on request for quantity. For 113/4C - 133/4C is not available...				F ⇒ Ø40 G ⇒ Ø42	X22S - X33S X43A		
	4 Stages Riduzioni	Stainless steel hub				H ⇒ Ø45	X52A - X62A 113C - 133C		
B	114C 134C	Only on request for quantity				I	X22S - X42A X53A - X63A 114C - 134C		
						J	X32S - X42A X53A - X63A 114C - 134C		
						K	X52A - X62A 113C - 133C		
						L	X32S - X42A X53A - X63A 114C - 134C		
						M	X52/3A ø30		
						N	X62/3A ø35		
						O	113/4A ø42		
						P	133/4A ø45		
						Shrink disk	Type R / Tipo R X22S - X33S X43A		
						U	X22S - X62A 113C - 133C		
						Q	X42/3A ø30		
						R	X52/3A ø35		
						S	X62/3A ø40		

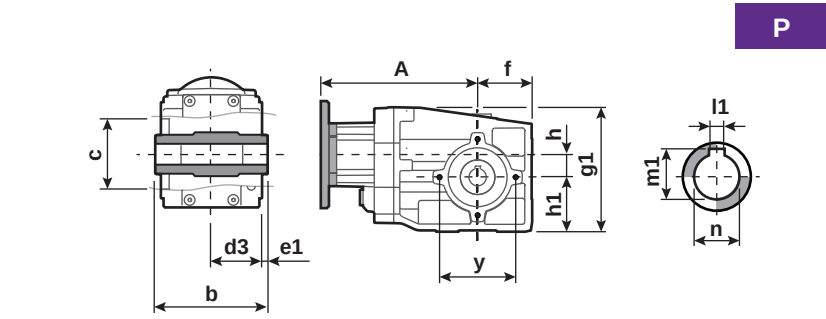
Angletech Gears

0.06 ÷ 9 kW

Helical bevel gearboxes Made in Italy

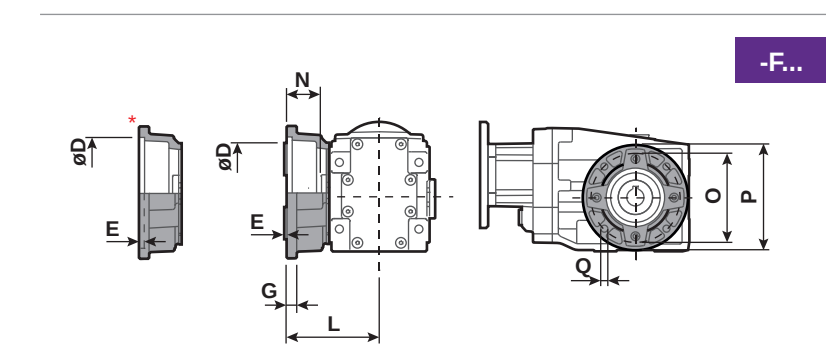
Also available with special options

HYDRO-MECHANICAL

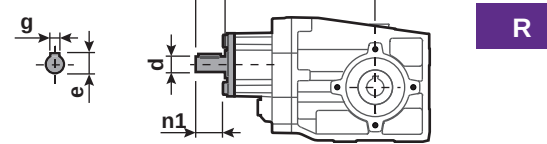


o	b	c (ø)	d3	e1	f	g1	h	h1	y	l1	m1	n (H7)
X22S	100	55 H6	47.5	2.5	50	104	18	50	70	6	22.8	20
X32S	120	68 H6	57.5	2.5	63	144	26	63	88	6	22.8	20
X33S	120	68 H6	57.5	2.5	63	148	56	63	88	6	22.8	20
X42A	110	80 H7	50.5	3	70	147	21.8	70	100	8	28.3	25
X43A	110	80 H7	50.5	3	70	151	51.8	70	100	8	28.3	25
X52A	130	95 H7	60	3	80	176	34	80	115	8	33.3	30
X53A	130	95 H7	60	3	80	191	72	80	115	8	33.3	30
X62A	150	95 H7	70	3	90	182	30	90	115	10	38.3	35
X63A	150	95 H7	70	3	90	197	68	90	115	10	38.3	35

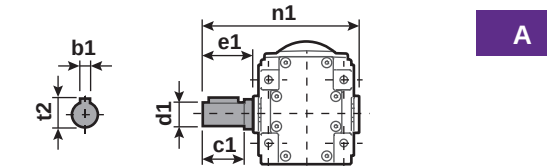
o	A											
X22S	6385	7185	56B14	63B14	71B14							
	152.5	150.5	152	154.5	152							
6385	7185	80-90B5	71B14	80B14	90B14							
X32S	184	182	184	182	183	184						
	6385	7185	56B14	63B14	71B14							
X33S	187.5	185.5	187	189.5	187							
6385	7185	80-90B5	100/112B5	71B14	80B14	90B14	100/112B14					
X42A	199.5	197.5	199.5	235	197.5	198.5	199.5	215				
	6385	7185	56B14	63B14	71B14							
X43A	203	201	202.5	205	202.5							
	7185	80-90B5	100/112B5	80B14	90B14	100/112B14						
X52A	234	236	242	234	234	245						
	6385	7185	80-90B5	71B14	80B14	90B14						
X53A	246	244	246	244	245	246						
	7185	80-90B5	100/112B5	132B5	80B14	90B14	100/112B14	132B14				
X62A	253	255	261	282.5	253	264	282.5					
	6385	7185	80-90B5	71B14	80B14	90B14						
X63A	265	263	265	263	264	265						



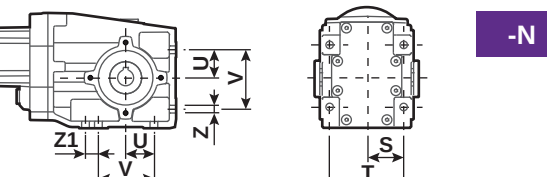
o	Type	øD	E	G	L	N	O	P	Q	Kit code
X22S	0	60 H7	4	8	80	30	87	110	9	KX2S.9.010
	1	80 H7	2.5	8	80	30	100	120	7	KX2S.9.011
X32S	1	80 H7	2.5	8	80	20	100	120	7	KX3S.9.010
X33S	2	110 H7	2.5	8	80	20	130	160	9	KX3S.9.011
	2	110 H7	3	10	86.5	31.5	130	160	9	KX4A.9.010
X42A	3	130 H7	3.5	11	86.5	31.5	165	200	11	KX4A.9.011
X43A	4	180 H7	4	13	86.5	31.5	215	250	11	KX4A.9.012
	2	110 H7	3	10	101	36	130	160	9	KX5A.9.010
X52A	3	130 H7	3.5	13	101	36	165	200	11	KX5A.9.011
X52A	4	180 H7	4	14	101	36	215	250	14	KX5A.9.012
	2	110 H7	3	10	111	36	130	160	9	KX5A.9.010
X62A	3	130 H7	3.5	13	111	36	165	200	11	KX5A.9.011
X63A	4	180 H7	4	14	111	36	215	250	14	KX5A.9.012



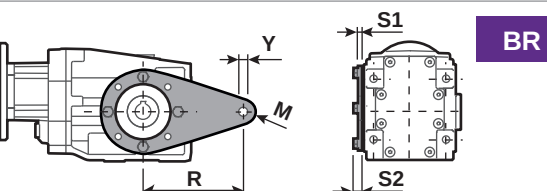
o	d (H6)	e	g	l	m	n1
X22S	ø14	16	5	25	146	22
X32S	ø19	21.5	6	35	174.5	-
X33S	ø14	16	5	25	181	22
X42A	ø19	21.5	6	35	190	-
X43A	ø14	16	5	25	196.5	22
X52A	ø24	27	8	50	227.5	-
X53A	ø19	21.5	6	35	236.5	-
X62A	ø24	27	8	50	246.5	-
X63A	ø19	21.5	6	35	255.5	-



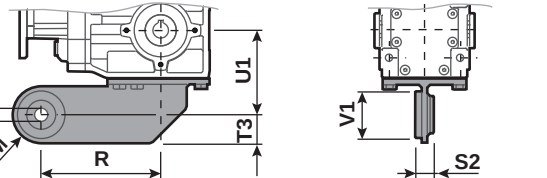
o	b1	c1	d1	e1	n1	t2
X22S	6	37.5	ø20 H6	40	140	22.5
	8	60	ø25 H6	63.2	190	28
X32S	6	37.5	ø20 H6	40	140	22.5
	8	60	ø25 H6	63.2	190	28
X33S	8	60	ø25 H6	63.2	190	28
X42A	8	52	ø25 H6	59.5	169.5	28
X43A	8	52	ø25 H6	59.5	169.5	28
X52A	8	60	ø30 H6	68	202	33
X53A	8	60	ø30 H6	68	202	33
X62A	10	60	ø35 H6	73.5	230.5	38
X63A	10	60	ø35 H6	73.5	230.5	38



o	S	T	U	V	Z	Z1
X22S	37.5	75	30	60	ø6.5	-
X32/3S	45	90	35	70	ø9	-
X42/3A	37.5	75	50	100	ø9.5	-
X52/3A	45	90	60	120	ø9.5	-
X62/3A	47.5	95	63	126	ø12	22



o	Y	M	R	S1	S2
X22S	9	12.5	100	4	8.5
X32/3S	11	18	110	5	10.5



	Y	M	R	S2	T3	U1	V1
X42/3A	11	30	118	20	30	108	50
X52/3A	11	30	137	20	30	118	50
X62/3A	21	35	150	25	35	135	60

X22S-X32S-X42A-X52A 2 Stages Riduzioni

The dynamic efficiency is 0.96 for all ratios								input speed (n ₁)=1400 min ⁻¹																			
	n ₂ [min ⁻¹]	i	P _{1M} [kW]	M _{2M} [Nm]	f.s	P _{1R} [kW]	M _{2R} [Nm]	63 B5		71 B5		56 B14		63 B14		71 B14											
50 Nm	290	4.83	0.37	12	2.6	0.95	30					C		C				288	01								
	189	7.40	0.37	18	1.7	0.62	30					C		C				287	02								
	146	9.58	0.37	23	1.7	0.64	40					C		C				199	03								
	128	10.98	0.37	27	1.7	0.63	45					C		C				179	04								
	107	13.07	0.37	32	1.4	0.53	45					C		C				159	05								
	95	14.66	0.37	35	1.3	0.47	45					C		C				197	06								
	89	15.79	0.37	38	1.2	0.44	45					C		C				139	07								
	83	16.81	0.37	41	1.1	0.41	45					C		C				177	08								
	70	20.00	0.37	48	1.0	0.37	48					C		C				157	09								
	64	21.93	0.37	53	0.9	0.35	50					C		C				109	10								
	58	24.18	0.25	59	1.3	0.32	50					C		C				137	11								
	48.2	29.04	0.25	47	1.1	0.26	50					C		C				99	12								
	41.7	33.57	0.18	42	1.2	0.23	50					C		C				107	13								
	36.2	38.67	0.18	48	1.0	0.20	50					C		C				79	14								
	31.5	44.44	0.18	56	0.9	0.17	50					C		C				97	15								
	23.7	59.18	0.12	48	1.0	0.13	50					C		C				77	16								
	19.9	70.24	0.09	45	1.1	0.11	50						C		C			67	17								
90 Nm	n ₂ [min ⁻¹]	i	P _{1M} [kW]	M _{2M} [Nm]	f.s	P _{1R} [kW]	M _{2R} [Nm]	63 B5		71 B5		80 B5		90 B5		71 B14		80 B14		90 B14							
	191	7.33	1.5	72	1.0	1.5	70	B								C		C			288	01					
	125	11.22	1.1	80	1.1	1.2	85	B								C		C			287	02					
	106	13.26	1.1	95	0.9	0.98	85	B								C		C			199	03					
	91	15.37	1.1	110	0.8	0.89	90	B								C		C			179	04					
	78	18.04	0.75	89	1.0	0.76	90	B								C		C			159	05					
	69	20.30	0.75	100	0.9	0.68	90	B								C		C			197	06					
	65	21.54	0.75	106	0.9	0.64	90	B								C		C			139	07					
	59	23.53	0.55	85	1.1	0.58	90	B								C		C			177	08					
	51	27.62	0.55	100	0.9	0.50	90	B								C		C			157	09					
	47.6	29.40	0.55	106	0.8	0.47	90	B								C		C			109	10					
	42.5	32.97	0.37	80	1.1	0.42	90	B								C		C			137	11					
	36.5	38.37	0.37	93	1.0	0.36	90	B								C		C			99	12					
	31.1	45.00	0.25	73	1.2	0.31	90	B								C		C			107	13					
	27.6	50.67	0.25	83	1.1	0.27	90	B								C		C			79	14					
	23.8	58.73	0.18	73	1.2	0.23	90	B								C		C			97	15					
	18.1	77.55	0.18	97	0.9	0.18	90	B								C		C			77	16					
150 Nm	n ₂ [min ⁻¹]	i	P _{1M} [kW]	M _{2M} [Nm]	f.s	P _{1R} [kW]	M _{2R} [Nm]	63 B5		71 B5		80 B5		90 B5		100/112 B5		71 B14		80 B14		90 B14		100/112 B14			
	192	7.29	2.2	104	0.9	2.0	95	B										C		C				288	01		
	125	11.20	2.2	159	0.9	2.0	150	B										C		C				1911	02		
	106	13.18	1.5	129	1.2	1.7	150	B										C		C				1711	03		
	92	15.27	1.1	109	1.4	1.5	150	B										C		C				1511	04		
	78	17.93	1.1	128	1.2	1.3	150	B										C		C				198	05		
	69	20.25	1.1	145	1.0	1.1	150	B										C		C				1311	06		
	65	21.40	1.1	153	1.0	1.1	150	B										C		C				178	07		
	60	23.47	0.75	115	1.3	0.98	150	B										C		C				158	08		
	51	27.55	0.75	135	1.1	0.83	150	B										C		C				1011	09		
	47.9	29.21	0.75	143	1.0	0.78	150	B										C		C				138	10		
	42.6	32.88	0.75	161	0.9	0.70	150	B										C		C				911	11		
	36.7	38.12	0.55	138	1.1	0.60	150	B										C		C				108	12		
	31.2	44.89	0.55	163	0.9	0.51	150	B										C		C				711	13		
	27.8	50.34	0.37	122	1.1	0.40	131	B										C		C				98	14		
	23.9	58.58	0.37	142	1.1	0.39	150	B										C		C				78	15		
	18.1	77.36	0.25	126	1.2	0.30	150	B										C		C				16			
250 Nm	n ₂ [min ⁻¹]	i	P _{1M} [kW]	M _{2M} [Nm]	f.s	P _{1R} [kW]	M _{2R} [Nm]	71 B5		80 B5		90 B5		100/112 B5		80 B14		90 B14		100/112 B14							
	232	6.03	3	116	1.2	3.4	135	B															3011	01			
	151	9.26	3	179	0.9	2.6	155	B															308	02			
	123	11.36	3	239	1.0	3.1	230	B															2011	03			
	91	15.36	2.2	218	1.1	2.5	250	B															1611	04			
	80	17.46	2.2	248	1.0	2.2	250	B															208	05			
	70	19.97	2.2	284	0.9	1.9	250	B															1311	06			
	59	23.60	1.5	231	1.1	1.6	250	B															168	07			
	57	24.45	1.5	239	1.0	1.6	250	B															1111	08			
	45.6	30.69	1.1	220	1.1	1.2	250	B															138	09			
	39.6	35.35	1.1	253	1.0	1.1	250	B															811	10			
	37.3	37.57	1.1	268	0.9	1.0	250	B															112	11			
	28.8	48.68	0.75	239	1.0	0.78	250	B															611	12			
	25.8	54.33	0.75	267	0.9	0.70	250	B															88	13			
	18.7	74.81	0.37	181	1.2	0.43	210	B															68	14			

X62A 2 Stages Riduzioni

	n ₂ [min ⁻¹]	i	P _{1M} [kW]	M _{2M} [Nm]	f.s	P _{1R} [kW]	M _{2R} [Nm]	The dynamic efficiency is 0.96 for all ratios													
								71 B5	80 B5	90 B5	100/112 B5	132 B5	80 B14	90 B14	100/112 B14	132 B14		Output shaft Ø			
X62A	232	6.03	5.5	211	1.1	6.1	240	B									3011	01			
	151	9.26	4	238	1.1	4.5	270	B									308	02			
	123	11.36	4	291	1.2	4.7	350	B									2011	03			
	91	15.36	4	394	1.0	3.8	385	B									1611	04			
	80	17.46	4	448	0.9	3.5	400	B									208	05			
	70	19.97	3	386	1.1	3.1	410	B									1311	06			
	59	23.60	3	456	0.9	2.7	410	B									168	07			
	57	24.45	3	472	0.9	2.6	410	B									1111	08			
	45.6	30.69	2.2	436	0.9	2.0	410	B									138	09			
	39.6	35.35	1.5	346	1.2	1.8	410	B									811	10			
	37.3	37.57	1.5	368	1.1	1.7	410	B									118	11			
	28.8	48.68	1.1	348	1.0	1.1	365	B									611	12			
	25.8	54.33	1.1	389	1.1	1.2	410	B									88	13			
	18.7	74.81	0.75	367	1.0	0.73	360	B									68	14			

X33S-X43A 3 Stages Riduzioni

The dynamic efficiency is 0.94 for all ratios								input speed (n ₁)=1400 min ⁻¹							
	n ₂ [min ⁻¹]	i	P _{1M} [kW]	M _{2M} [Nm]	f.s	P _{1R} [kW]	M _{2R} [Nm]	63 B5	71 B5	56 B14	63 B14	71 B14			
100 Nm	X33S	38.7	36.17	0.37	86	1.2	0.43	100			C	C		17179	01
		31.7	44.21	0.37	105	1.0	0.35	100			C	C		19139	02
		27.6	50.68	0.25	81	1.2	0.31	100			C	C		17139	03
		25.3	55.36	0.25	89	1.1	0.28	100			C	C		17177	04
		23.2	60.31	0.25	96	1.0	0.26	100			C	C		15139	05
		21.2	65.88	0.25	105	0.9	0.24	100			C	C		15177	06
		19.4	72.25	0.18	88	1.1	0.22	100			C	C		10179	07
		17.6	79.64	0.18	97	1.0	0.20	100			C	C		13177	08
		15.2	92.31	0.18	113	0.9	0.17	100			C	C		15137	09
		14.6	95.65	0.18	117	0.9	0.16	100			C	C		9179	10
		13.8	101.23	0.12	80	1.2	0.15	100			C	C		10139	11
		11.0	127.37	0.12	101	1.0	0.12	100			C	C		7179	12
		9.3	151.16	0.09	95	1.0	0.10	100			C	C		6179	13
		7.8	178.46	0.09	113	0.9	0.09	100			C	C		7139	14
		6.6	211.79	0.08	88	1.1	0.07	100			C	C		6139	15
		6.1	231.37	0.06	96	1.0	0.07	100			C	C		6177	16
		5.1	273.16	0.06	113	0.9	0.06	100			C	C		7137	17
		4.3	324.18	0.06	134	0.7	0.05	100			C	C		6137	18
160 Nm	X43A	27.8	50.36	0.37	119	1.3	0.46	150			C	C		17131	01
		25.4	55.22	0.37	131	1.1	0.42	150			C	C		17178	02
		23.4	59.92	0.37	142	1.1	0.39	150			C	C		15131	03
		21.3	65.72	0.37	156	1.0	0.36	150			C	C		15178	04
		19.5	71.78	0.25	118	1.3	0.33	150			C	C		10171	05
		17.6	79.44	0.25	127	1.2	0.29	150			C	C		13178	06
		15.2	92.08	0.25	147	1.0	0.25	150			C	C		15138	07
		14.7	95.03	0.25	152	1.0	0.25	150			C	C		91711	08
		11.1	126.55	0.18	155	1.0	0.20	160			C	C		7171	09
		10.5	133.15	0.18	163	1.0	0.19	160			C	C		91311	10
		9.3	150.18	0.12	119	1.3	0.17	160			C	C		61711	11
		7.9	177.30	0.12	140	1.1	0.14	160			C	C		71311	12
		6.7	210.42	0.09	133	1.2	0.12	160			C	C		61311	13
		6.1	230.79	0.09	146	1.1	0.11	160			C	C		6178	14
		5.1	272.47	0.08	113	1.4	0.09	160			C	C		7138	15
		4.3	323.37	0.06	134	1.2	0.08	160			C	C		6138	16