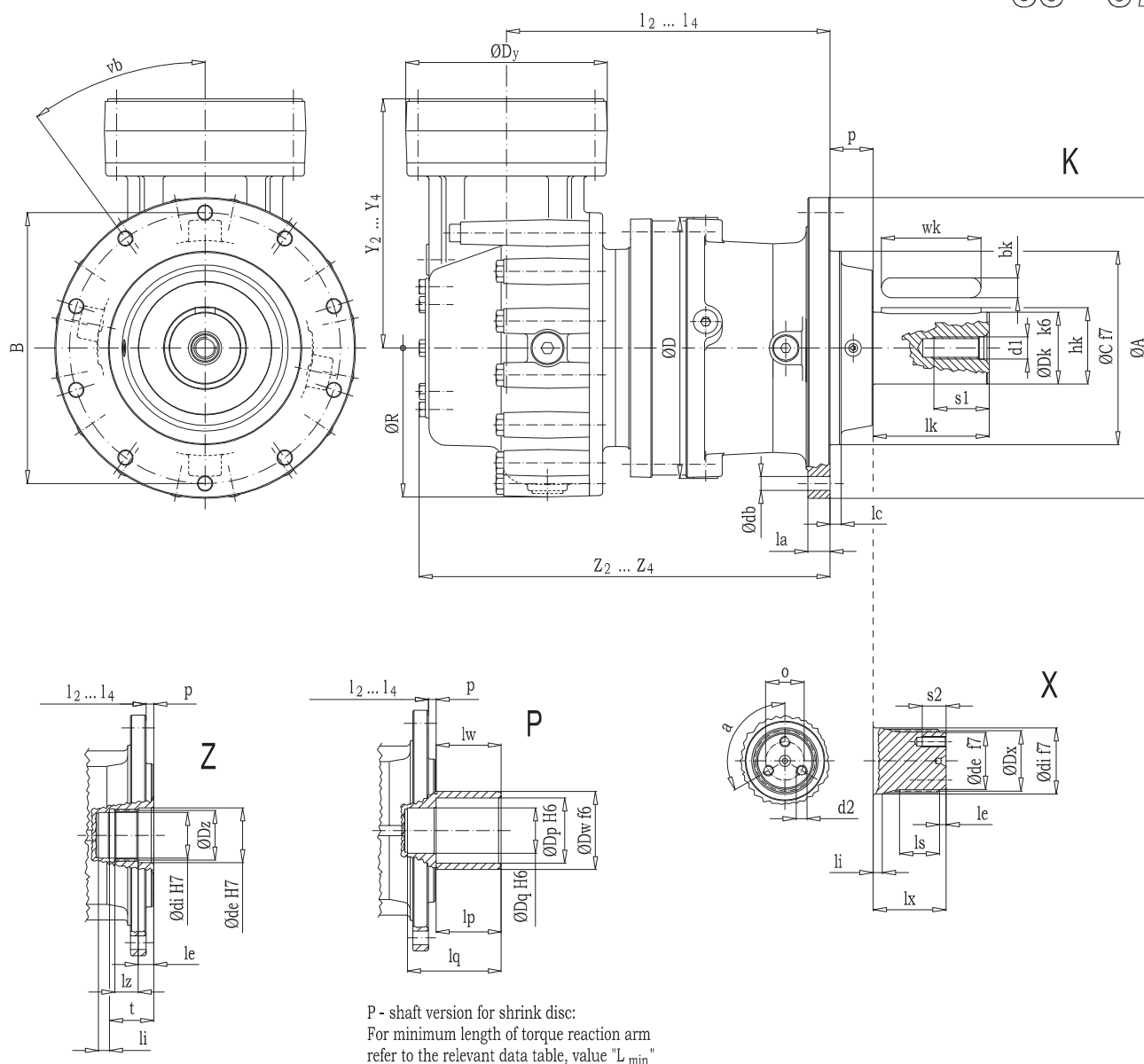




Data and dimensions are not binding and may be modified without prior notice

Dimensions METRIC, standard, solid shafts																					Keyed										DIN Splined										
Model	A	la	B	db	vb	C	lc	D	p	l ₂	l ₃	l ₄	Y ₂	Y ₃	Y ₄	Dy	Z ₂	Z ₃	Z ₄	R	Dk	lk	bk	hk	wk	d1	s1	code	Dx	lx	ls	de	le	di	li	d2	s2	a	o	code	
36	220	18	195	12.5	10x36°	150	14	242	15	269	269	269	226	276	326	185	348	348	348	274	60	105	18	64	90	M20	50	K 11	58x53	68	38	50	8	60	7	M10	20	3x120°	32	X	12
42	220	18	195	12.5	10x36°	150	14	242	15	269	269	269	226	276	326	185	348	348	348	274	60	105	18	64	90	M20	50	K 11	58x53	68	38	50	8	60	7	M10	20	3x120°	32	X	12
50	220	18	195	12.5	10x36°	150	14	242	15	269	269	269	226	276	326	185	348	348	348	274	65	105	18	69	90	M20	50	K 13	58x53	68	38	50	8	60	7	M10	20	3x120°	32	X	12
60	220	18	195	12.5	10x36°	150	14	242	15	284	284	284	226	276	326	185	363	363	363	274	65	105	18	69	90	M20	50	K 13	58x53	68	38	50	8	60	7	M10	20	3x120°	32	X	12
67	220	18	195	12.5	10x36°	150	14	242	15	284	284	284	226	276	326	185	363	363	363	274	65	105	18	69	90	M20	50	K 13	58x53	68	38	50	8	60	7	M10	20	3x120°	32	X	12

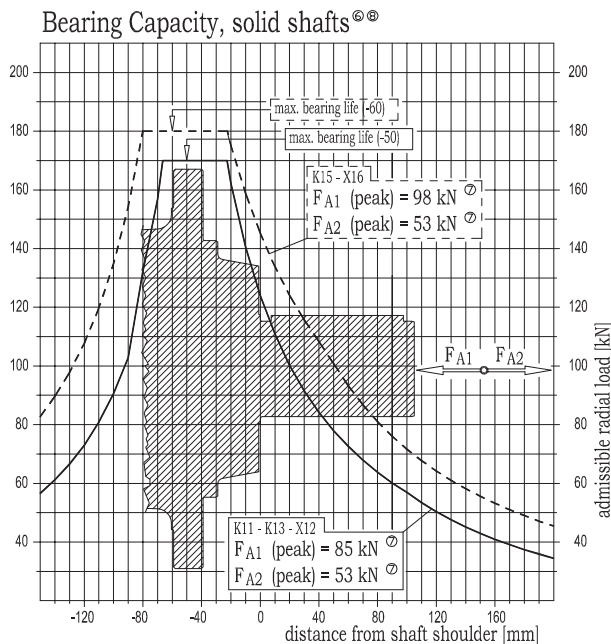
Dimensions METRIC, reinforced, solid shafts																					Keyed										DIN Splined										
Model	A	la	B	db	vb	C	lc	D	p	l ₂	l ₃	l ₄	Y ₂	Y ₃	Y ₄	Dy	Z ₂	Z ₃	Z ₄	R	Dk	lk	bk	hk	wk	d1	s1	code	Dx	lx	ls	de	le	di	li	d2	s2	a	o	code	
36	272	20	245	12.5	10x36°	175	10	242	39	278	278	278	226	276	326	185	357	357	357	270	65	105	18	69	90	M20	50	K 15	58x53	80	50	50	8	60	7	M10	20	3x120°	32	X	16
42	272	20	245	12.5	10x36°	175	10	242	39	278	278	278	226	276	326	185	357	357	357	270	65	105	18	69	90	M20	50	K 15	58x53	80	50	50	8	60	7	M10	20	3x120°	32	X	16
50	272	20	245	12.5	10x36°	175	10	242	39	278	278	278	226	276	326	185	357	357	357	270	65	105	18	69	90	M20	50	K 15	58x53	80	50	50	8	60	7	M10	20	3x120°	32	X	16
60	272	20	245	12.5	10x36°	175	10	242	39	293	293	293	226	276	326	185	372	372	372	270	65	105	18	69	90	M20	50	K 15	58x53	80	50	50	8	60	7	M10	20	3x120°	32	X	16
67	272	20	245	12.5	10x36°	175	10	242	39	293	293	293	226	276	326	185	372	372	372	270	65	105	18	69	90	M20	50	K 15	58x53	80	50	50	8	60	7	M10	20	3x120°	32	X	16

Dimensions METRIC, hollow shafts																					Hollow for Shrink Disc										Hollow Splined									
Model	A	la	B	db	vb	C	lc	D	p	l ₂	l ₃	l ₄	Y ₂	Y ₃	Y ₄	Dy	Z ₂	Z ₃	Z ₄	R	Dp	lp	Dq	lq	Dw	lw	code	L min. of torque arm	Dz	lz	de	le	di	li	t	code				
36	220	18	195	12,5	10x36°	150	14	242	15	269	269	269	226	276	326	185	348	348	348	270	75	70	50	100	90	50	P 24	250	58x53	24	60	15	50	10	44	Z 21				
42	220	18	195	12,5	10x36°	150	14	242	15	269	269	269	226	276	326	185	348	348	348	270	75	70	50	100	90	50	P 24	250	58x53	24	60	15	50	10	44	Z 21				
50	220	18	195	12,5	10x36°	150	14	242	15	269	269	269	226	276	326	185	348	348	348	270	75	70	50	100	90	50	P 24	300	58x53	24	60	15	50	10	44	Z 21				
60	220	18	195	12,5	10x36°	150	14	242	15	284	284	284	226	276	326	185	363	363	363	270	75	70	50	100	90	50	P 24	300	58x53	24	60	15	50	10	44	Z 21				
67	220	18	195	12,5	10x36°	150	14	242	15	284	284	284	226	276	326	185	363	363	363	270	75	70	50	100	90	50	P 24	300	58x53	24	60	15	50	10	44	Z 21				

DIMENSIONS IN MM UNLESS OTHERWISE SPECIFIED

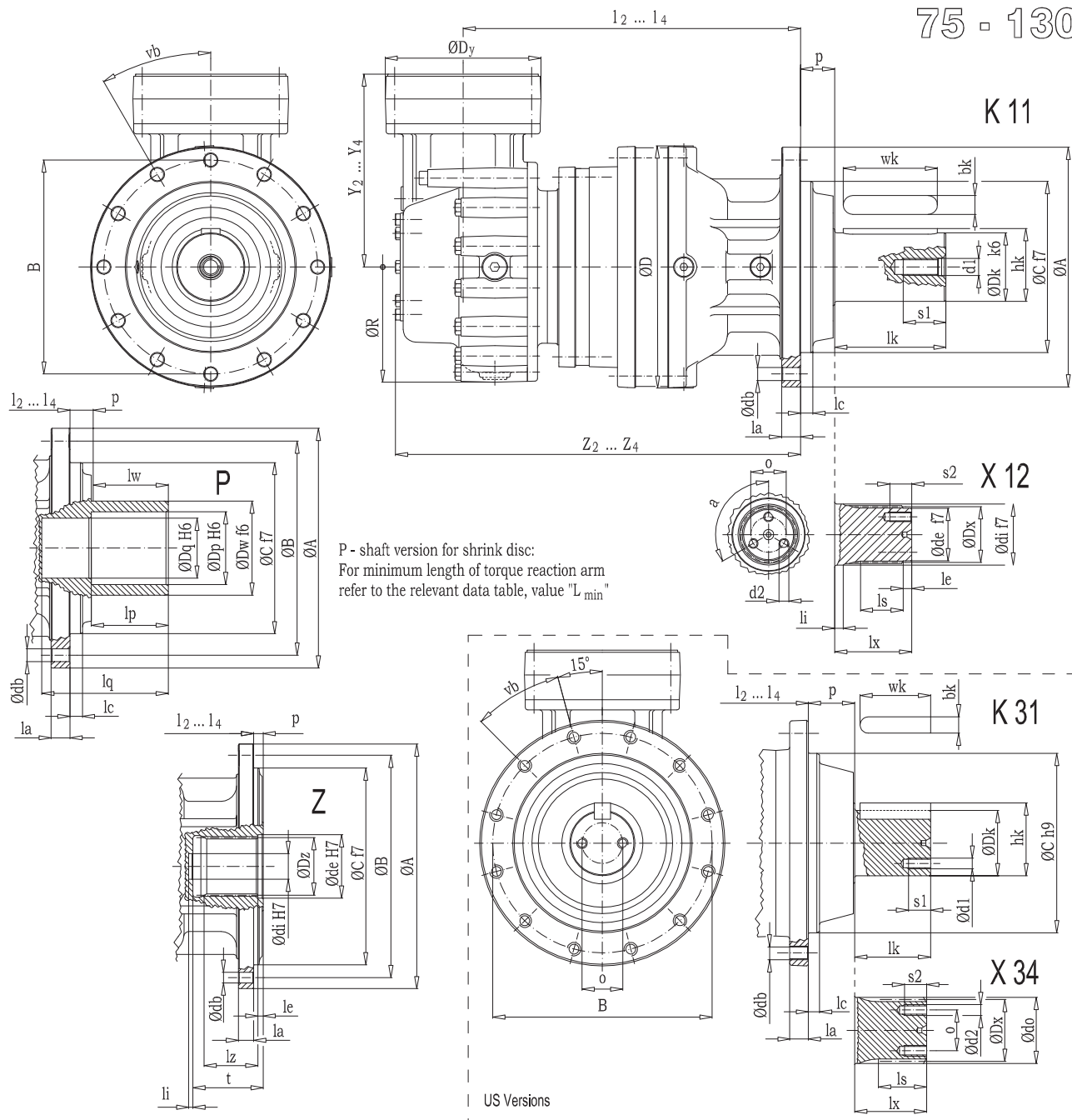
Model	36		42		50		60		67	
Torque Rating ^①	3600 Nm		4200 Nm		5000 Nm		6000 Nm		6700 Nm	
R2	NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)	
	10 (B)	21 (C)	10 (B)	25 (B)	12 (A)		12 (A)	28 (C)	13 (A)	
	12 (A)	25 (B)	13 (A)		14 (A)		16 (B)	34 (D)	16 (B)	
	16 (B)	30 (B)	16 (B)		18 (A)		18 (A)		21 (A)	
	18 (A)	34 (C)	21 (A)		21 (A)		25 (B)		25 (B)	
n ₁ nom./max.	3000 rpm	4000 rpm	3000 rpm	4000 rpm	3000 rpm	4000 rpm	3000 rpm	4000 rpm	3000 rpm	4000 rpm
P th. ^③ /max.	15 kW	25 kW	15 kW	26 kW	15 kW	27 kW	16 kW	30 kW	16 kW	33 kW
R3	NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)	
	34 (B)	90 (A)	34 (B)	80 (A)	38 (A)	95 (A)	38 (A)	110 (A)	45 (A)	105 (A)
	38 (A)	100 (B)	38 (B)	85 (A)	45 (A)	105 (A)	42 (A)	125 (A)	50 (A)	130 (A)
	45 (A)	110 (A)	45 (A)	95 (A)	50 (A)	125 (A)	53 (B)	150 (B)	53 (B)	150 (A)
	53 (B)	125 (A)	50 (A)	105 (A)	60 (A)	150 (A)	60 (A)	170 (B)	67 (A)	170 (B)
	60 (A)	150 (B)	53 (B)	130 (A)	67 (A)		67 (A)	200 (C)	71 (A)	
	67 (A)	170 (B)	60 (B)	150 (A)	71 (A)		71 (A)	240 (D)	80 (A)	
	71 (A)	210 (B)	67 (A)	170 (B)	80 (A)		80 (A)		85 (A)	
	80 (A)	240 (C)	71 (A)		85 (A)		90 (A)		95 (A)	
n ₁ nom./max.	3000 rpm	4000 rpm	3000 rpm	4000 rpm	3000 rpm	4000 rpm	3000 rpm	4000 rpm	3000 rpm	4000 rpm
P th. ^③ /max.	11 kW	15 kW	11 kW	16 kW	11 kW	17 kW	12 kW	25 kW	12 kW	28 kW
R4	NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)	
	140 (A)	630 (A)	170 (A)	630 (A)	160 (A)	530 (A)	140 (A)	670 (A)	170 (A)	750 (A)
	160 (A)	670 (A)	190 (A)	750 (A)	190 (A)	560 (A)	160 (A)	750 (A)	190 (A)	800 (A)
	180 (B)	750 (A)	220 (A)	800 (A)	220 (A)	630 (A)	200 (A)	850 (A)	220 (A)	900 (A)
	200 (A)	850 (A)	250 (A)	900 (A)	250 (A)	670 (A)	220 (A)	950 (B)	260 (A)	950 (B)
	220 (A)	900 (B)	260 (A)	1000 (A)	300 (A)	750 (A)	250 (A)	1050 (B)	300 (A)	1050 (B)
	260 (A)	1050 (B)	300 (A)	1200 (B)	340 (A)	800 (A)	300 (A)	1200 (B)	340 (A)	1200 (B)
	300 (A)	1250 (B)	340 (A)		360 (A)	850 (A)	340 (A)	1400 (C)	400 (A)	
	340 (A)	1400 (B)	360 (A)		400 (A)	900 (A)	400 (A)	1600 (D)	420 (A)	
	400 (A)	1600 (C)	400 (A)		420 (A)	1000 (A)	450 (A)		480 (A)	
	450 (A)		480 (A)		450 (A)		500 (A)		530 (A)	
	500 (A)		530 (A)		480 (A)		560 (A)		560 (A)	
	560 (A)		560 (A)		500 (A)		630 (A)		630 (A)	
n ₁ nom./max.	3000 rpm	4000 rpm	3000 rpm	4000 rpm	3000 rpm	4000 rpm	3000 rpm	4000 rpm	3000 rpm	4000 rpm
P th. ^③ /max.	5 kW	5 kW	5.5 kW	5.5 kW	6 kW	6 kW	7.5 kW	8 kW	7.5 kW	9 kW
Actual Torque [Nm] ^④	(A) 4100 (B) 3600 (C) 3150		(A) 4900 (B) 4300		(A) 5700		(A) 7000 (B) 6200 (C) 5500 (D) 5100		(A) 8250 (B) 7200	
Peak Torque ^⑤	4500 Nm		5500 Nm		6700 Nm		8000 Nm		9000 Nm	

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- ① Harmonized nominal value referring to Preferred Numbers R'40. Actual transmissible torque may vary depending on ratio, speed, application.
- ② Harmonized nominal value referring to Preferred Numbers R'40. For actual ratios see Annex C.
- ③ Thermal power limit. For actual figures based on speed, temperature and duty see Section B4, Specifications, Paragraph 8.
- ④ Mean value at rated conditions. For actual figures based on speed, service life and application/duty see Section B4, Specifications, Paragraph 6.
- ⑤ Restrictions may apply for hollow shaft for shrink disc, see Section G, Output Accessories. Customer to verify the mating shaft is capable of loads actually transmitted.
- ⑥ Mean values at rated conditions. For actual admissible loads based on speed, service life and application/duty see Section B4, Specifications, Paragraph 9.
- ⑦ Max. peak values, which must never be exceeded. Combined thrust and radial shaft loads might reduce bearing life. Please contact Plan-Star Engineering for accurate life calculation of your specific application.
- ⑧ Combination of high torque and heavy radial shaft load might require verification of the output shaft. If the following condition is not fulfilled, contact Plan-Star Engineering for accurate verification of your specific application:

$$\frac{\text{Radial Load (applied)}}{\text{Radial Load (admissible)}} \times \frac{\text{Torque (applied)}}{\text{Torque (nominal)}} < 0.5$$



Data and dimensions are not binding and may be modified without prior notice.

Dimensions METRIC, solid shafts																					Keyed										DIN Splined										
Media	A	la	B	db	vb	C	lc	d	p	l ₂	l ₃	l ₄	Y ₂	Y ₃	Y ₄	D ₂	Z ₂	Z ₃	Z ₄	R	Dk	lk	bk	hk	wk	d1	s1	code	Dx	lx	ls	de	le	di	li	d2	s2	a	o	code	
75	280	22	250	15	12x30°	200	14,5	285	40	317	380	380	226	226	276	185	396	459	459	274	80	130	22	85	110	M20	50	K 11	70x64	90	50	62	10	72	10	M10	20	3x120°	40	X	12
85	280	22	250	15	12x30°	200	14,5	285	40	317	380	380	226	226	276	185	396	459	459	274	80	130	22	85	110	M20	50	K 11	70x64	90	50	62	10	72	10	M10	20	3x120°	40	X	12
100	280	22	250	15	12x30°	200	14,5	285	40	317	380	380	226	226	276	185	396	459	459	274	80	130	22	85	110	M20	50	K 11	70x64	90	50	62	10	72	10	M10	20	3x120°	40	X	12
110	280	22	250	15	12x30°	200	14,5	285	40	332	395	395	226	226	276	185	411	489	474	274	80	130	22	85	110	M20	50	K 11	70x64	90	50	62	10	72	10	M10	20	3x120°	40	X	12
130	280	22	250	15	12x30°	200	14,5	285	40	332	410	410	226	226	276	185	411	489	489	274	80	130	22	85	110	M20	50	K 11	70x64	90	50	62	10	72	10	M10	20	3x120°	40	X	12

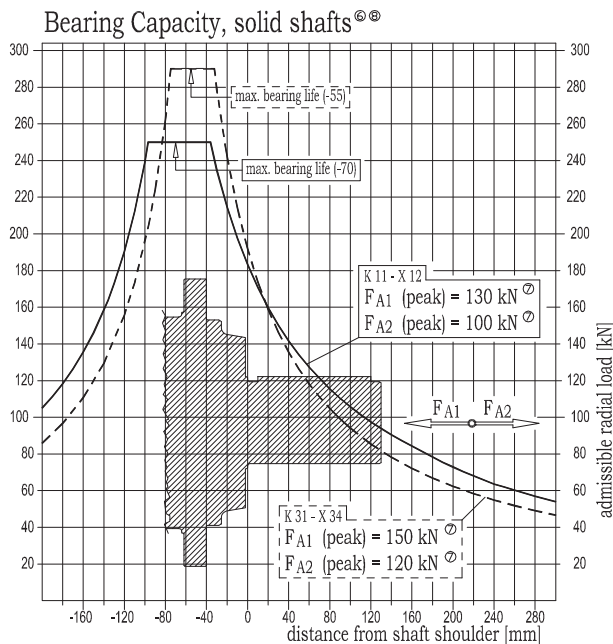
Dimensions METRIC, hollow shafts														Hollow for Shrink Disc														Hollow Splined															
Shaft	A	D	l ₂	l ₃	l ₄	Y ₂	Y ₃	Y ₄	D _Y	Z ₂	Z ₃	Z ₄	R	la	B	db	vb	C	lc	p	Dp	lp	Dq	lq	Dw	lw	L _{min}	P _{code}	la	B	db	vb	C	lc	p	Dz	lz	de	le	di	li	t	code
75	280	285	317	380	380	226	226	276	185	396	459	459	274	22	250	15	12x30*	200	14.5	27	85	90	70	148	110	88	300	P 24	18	260	12.5	10x36*	230	7	11	70x64	65	74	6	30	5	82	Z 21
85	280	285	317	380	380	226	226	276	185	396	459	459	274	22	250	15	12x30*	200	14.5	27	85	90	70	148	110	88	300	P 24	18	260	12.5	10x36*	230	7	11	70x64	65	74	6	30	5	82	Z 21
100	280	285	317	380	380	226	226	276	185	396	459	459	274	22	250	15	12x30*	200	14.5	27	85	90	70	148	110	88	400	P 24	18	260	12.5	10x36*	230	7	11	70x64	65	74	6	30	5	82	Z 21
110	280	285	332	395	395	226	226	276	185	411	474	474	274	22	250	15	12x30*	200	14.5	27	85	90	70	148	110	88	400	P 24	18	260	12.5	10x36*	230	7	11	70x64	65	74	6	30	5	82	Z 21
130	280	285	332	410	410	226	226	276	185	411	489	489	274	22	250	15	12x30*	200	14.5	27	85	90	70	148	110	88	400	P 24	18	260	12.5	10x36*	230	7	11	70x64	65	74	6	30	5	82	Z 21

Dimensions US version, solid shafts																	Keyed										ANSI Splined										
Shaft	A	Ia	B	db	vb	C	lc	D	p	l ₂	l ₃	l ₄	Y ₂	Y ₃	Y ₄	Dv	Z ₂	Z ₃	Z ₄	R	Dk	ll	kk	bk	hk	wk	code	Dx	lx	ls	do	d ₂	s ₃	a	o	code	
75	287	22	256.5	5/8"-11	12x30°	209.55	13	285	54.5	317	380	380	226	226	276	185	396	459	459	274	76.2	h7	88.9	19.05	85.1	82.5	K 31	8/16-23T	84.3	56.5	75.7	h12	1/2"-20	25	2x180°	47.6	X 34
85	287	22	256.5	5/8"-11	12x30°	209.55	13	285	54.5	317	380	380	226	226	276	185	396	459	459	274	76.2	h7	88.9	19.05	85.1	82.5	K 31	8/16-23T	84.3	56.5	75.7	h12	1/2"-20	25	2x180°	47.6	X 34
100	287	22	256.5	5/8"-11	12x30°	209.55	13	285	54.5	317	380	380	226	226	276	185	396	459	459	274	76.2	h7	88.9	19.05	85.1	82.5	K 31	8/16-23T	84.3	56.5	75.7	h12	1/2"-20	25	2x180°	47.6	X 34
110	287	22	256.5	5/8"-11	12x30°	209.55	13	285	54.5	332	390	395	226	226	276	185	411	489	489	274	76.2	h7	88.9	19.05	85.1	82.5	K 31	8/16-23T	84.3	56.5	75.7	h12	1/2"-20	25	2x180°	47.6	X 34
130	287	22	256.5	5/8"-11	12x30°	209.55	13	285	54.5	332	410	410	226	226	276	185	411	489	489	274	76.2	h7	88.9	19.05	85.1	82.5	K 31	8/16-23T	84.3	56.5	75.7	h12	1/2"-20	25	2x180°	47.6	X 34

DIMENSIONS IN MM UNLESS OTHERWISE SPECIFIED

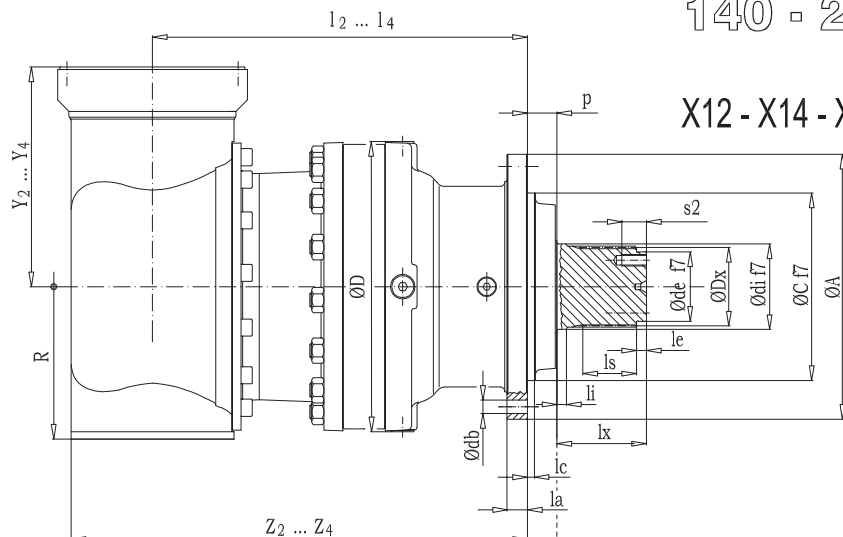
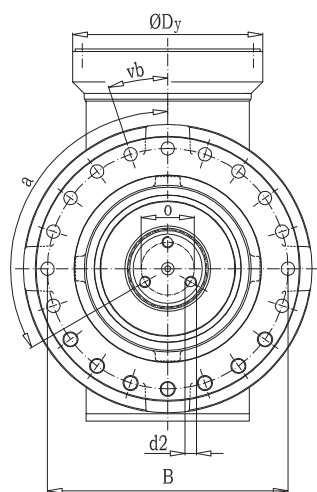
Model	75		85		100		110		130	
Torque Rating ^①	7500 Nm		8500 Nm		10000 Nm		11000 Nm		13000 Nm	
R2	NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)	
	10 (B) 21 (C)		10 (B) 25 (B)		12 (A) 14 (A)		12 (A) 28 (C)		13 (A) 16 (B)	
	12 (A) 25 (B)		13 (A) 16 (B)		18 (A) 21 (A)		16 (B) 34 (D)		21 (A) 25 (B)	
	16 (B) 30 (B)		16 (B) 21 (A)				18 (A) 25 (B)			
	18 (A) 34 (C)									
n ₁ nom./max.	3000 rpm	4000 rpm	3000 rpm	4000 rpm	3000 rpm	4000 rpm	3000 rpm	4000 rpm	3000 rpm	4000 rpm
P th. ^③ /max.	20 kW	54 kW	20 kW	57 kW	20 kW	60 kW	22.5 kW	66 kW	22.5 kW	72 kW
R3	NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)	
	34 (B) 90 (A)		34 (B) 80 (A)		38 (A) 95 (A)		38 (A) 150 (B)		50 (A)	
	38 (A) 100 (B)		38 (B) 85 (A)		45 (A) 105 (A)		50 (A) 170 (C)		67 (A)	
	45 (A) 110 (A)		45 (A) 95 (A)		50 (A) 125 (A)		60 (A) 210 (D)		80 (A)	
	53 (B) 125 (A)		50 (A) 105 (A)		60 (A) 150 (A)		71 (A)		95 (A)	
R4	NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)	
	140 (A) 630 (A)		170 (A) 630 (A)		160 (A) 530 (A)		130 (A) 450 (A)		170 (A) 750 (A)	
	160 (A) 670 (A)		190 (A) 750 (A)		190 (A) 560 (A)		140 (A) 500 (A)		190 (A) 850 (A)	
	180 (B) 750 (A)		220 (A) 800 (A)		220 (A) 630 (A)		170 (A) 560 (A)		220 (A) 900 (A)	
	200 (A) 850 (A)		250 (A) 900 (A)		250 (A) 670 (A)		190 (A) 630 (A)		260 (A) 1000 (A)	

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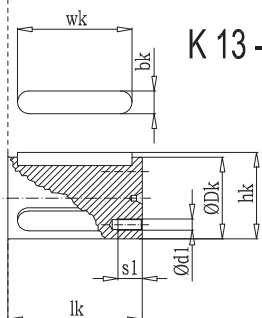
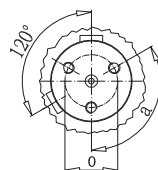
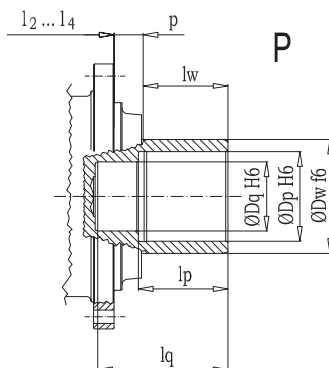
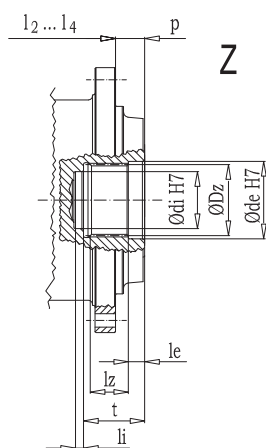
- ① Harmonized nominal value referring to Preferred Numbers R'40. Actual transmissible torque may vary depending on ratio, speed, application.
- ② Harmonized nominal value referring to Preferred Numbers R'40. For actual ratios see Annex C.
- ③ Thermal power limit. For actual figures based on speed, temperature and duty see Section B4, Specifications, Paragraph 8.
- ④ Mean value at rated conditions. For actual figures based on speed, service life and application/duty see Section B4, Specifications, Paragraph 6.
- ⑤ Restrictions may apply for hollow shaft for shrink disc, see Section G, Output Accessories. Customer to verify the mating shaft is capable of loads actually transmitted.
- ⑥ Mean values at rated conditions. For actual admissible loads based on speed, service life and application/duty see Section B4, Specifications, Paragraph 9.
- ⑦ Max. peak values, which must never be exceeded. Combined thrust and radial shaft loads might reduce bearing life. Please contact Plan-Star Engineering for accurate life calculation of your specific application.
- ⑧ Combination of high torque and heavy radial shaft load might require verification of the output shaft. If the following condition is not fulfilled, contact Plan-Star Engineering for accurate verification of your specific application:

$$\frac{\text{Radial Load (applied)}}{\text{Radial Load (admissible)}} \times \frac{\text{Torque (applied)}}{\text{Torque (nominal)}} < 0.5$$

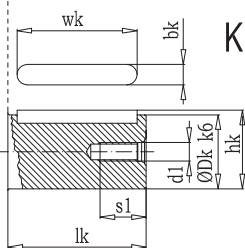
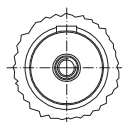


X12 - X14 - X16

Dimensions, Gearcase				
Model	version	Dy	R	
140	R2, R3, R4	185	137	
170	R2, R3, R4	185	137	
200	R2	242	187	
	R3, R4	185	137	
220	R2	242	187	
	R3, R4	185	137	
260	R2	242	187	
	R3, R4	185	137	



K 13 - K15



K 11

P - shaft version for shrink disc:
For minimum length of torque reaction arm
refer to the relevant data table, value "L_{min}"

Data and dimensions are not binding and may be modified without prior notice

Dimensions, standard, solid shafts																				Keyed										DIN Splined									
Model	A	la	B	db	vb	C	lc	D	p	l ₂	l ₃	l ₄	Y ₂	Y ₃	Y ₄	Z ₂	Z ₃	Z ₄	Dk	lk	bk	hk	wk	d1	s1	code	Dx	lx	ls	de	le	di	li	d2	s2	a	o	code	
140	325	25	295	16.5	20x18°	230	10	360	36	343	420	420	226	226	276	422	499	499	90	170	25	95	150	M20	50	K 11	80x74	90	50	70	10	85	10	M12	25	3x120°	45	X 12	
170	325	25	295	16.5	20x18°	230	10	360	36	343	420	420	226	226	276	422	499	499	90	170	25	95	150	M20	50	K 11	80x74	90	50	70	10	85	10	M12	25	3x120°	45	X 12	
200	325	25	295	16.5	20x18°	230	10	360	36	440	425	488	270	226	226	543	504	567	100	165	28	106	140	M14 (3)	30	K 13	100x94	110	66	85	12	105	12	M14	30	3x120°	65	X 14	
220	325	25	295	16.5	20x18°	230	10	360	36	460	445	508	270	226	226	563	524	587	100	165	28	106	140	M14 (3)	30	K 13	100x94	110	66	85	12	105	12	M14	30	3x120°	65	X 14	
260	325	25	295	16.5	20x18°	230	10	360	36	460	460	523	270	226	226	563	539	602	100	165	28	106	140	M14 (3)	30	K 13	100x94	110	66	85	12	105	12	M14	30	3x120°	65	X 14	

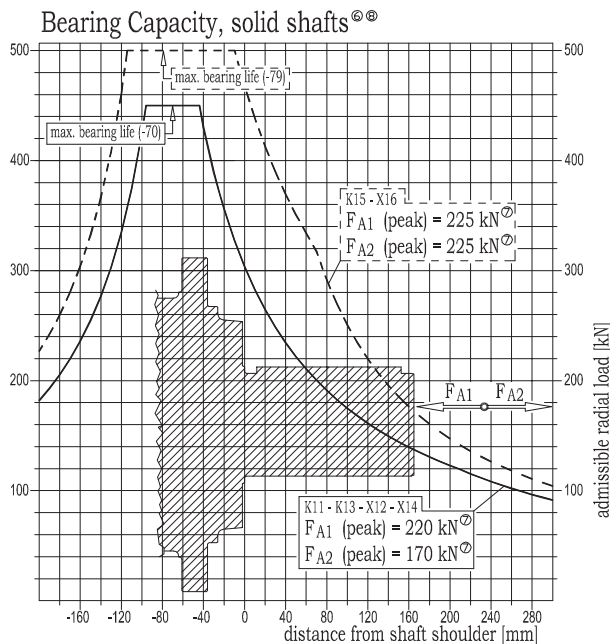
Dimensions, reinforced, solid shafts																				Keyed										DIN Splined									
Model	A	la	B	db	vb	C	lc	D	p	l ₂	l ₃	l ₄	Y ₂	Y ₃	Y ₄	Z ₂	Z ₃	Z ₄	Dk	lk	bk	hk	wk	d1	s1	code	Dx	lx	ls	de	le	di	li	d2	s2	a	o	code	
140	325	25	295	16.5	20x18°	250	20	360	57	343	420	420	226	226	276	422	499	499	100	165	28	106	140	M14 (3)	30	K 15	100x94	110	66	85	12	105	12	M14	30	3x120°	65	X 16	
170	325	25	295	16.5	20x18°	250	20	360	57	343	420	420	226	226	276	422	499	499	100	165	28	106	140	M14 (3)	30	K 15	100x94	110	66	85	12	105	12	M14	30	3x120°	65	X 16	
200	325	25	295	16.5	20x18°	250	20	360	57	440	425	488	270	226	226	543	504	567	100	165	28	106	140	M14 (3)	30	K 15	100x94	110	66	85	12	105	12	M14	30	3x120°	65	X 16	
220	325	25	295	16.5	20x18°	250	20	360	57	460	445	508	270	226	226	563	524	587	100	165	28	106	140	M14 (3)	30	K 15	100x94	110	66	85	12	105	12	M14	30	3x120°	65	X 16	
260	325	25	295	16.5	20x18°	250	20	360	57	460	460	523	270	226	226	563	539	602	100	165	28	106	140	M14 (3)	30	K 15	100x94	110	66	85	12	105	12	M14	30	3x120°	65	X 16	

Dimensions, hollow shafts														Hollow for Shrink Disc										Hollow Splined										
model	A	la	B	db	vb	C	lc	D	p	l ₂	l ₃	l ₄	Y ₂	Y ₃	Y ₄	Z ₂	Z ₃	Z ₄	Dp	lp	Dq	l _q	Dw	lw	code	L min. of torque arm	Dz	lz	de	le	di	li	t	code
140	325	25	295	16,5	20x18°	230	10	360	36	343	420	420	226	226	276	422	499	499	110	110	85	160	140	104	P 24	400	80x74	47	85	20	70	10	75	Z 21
170	325	25	295	16,5	20x18°	230	10	360	36	343	420	420	226	226	276	422	499	499	110	110	85	160	140	104	P 24	400	80x74	47	85	20	70	10	75	Z 21
200	325	25	295	16,5	20x18°	230	10	360	36	440	425	488	270	226	226	543	504	567	110	110	85	160	140	104	P 24	500	90x84	48	95	20	70	10	75	Z 23
220	325	25	295	16,5	20x18°	230	10	360	36	460	445	508	270	226	226	563	524	587	110	110	85	160	140	104	P 24	500	90x84	48	95	20	70	10	75	Z 23
260	325	25	295	16,5	20x18°	230	10	360	36	460	460	523	270	226	226	563	539	602	110	110	85	160	140	104	P 24	500	90x84	48	95	20	70	10	75	Z 23

DIMENSIONS IN MM UNLESS OTHERWISE SPECIFIED

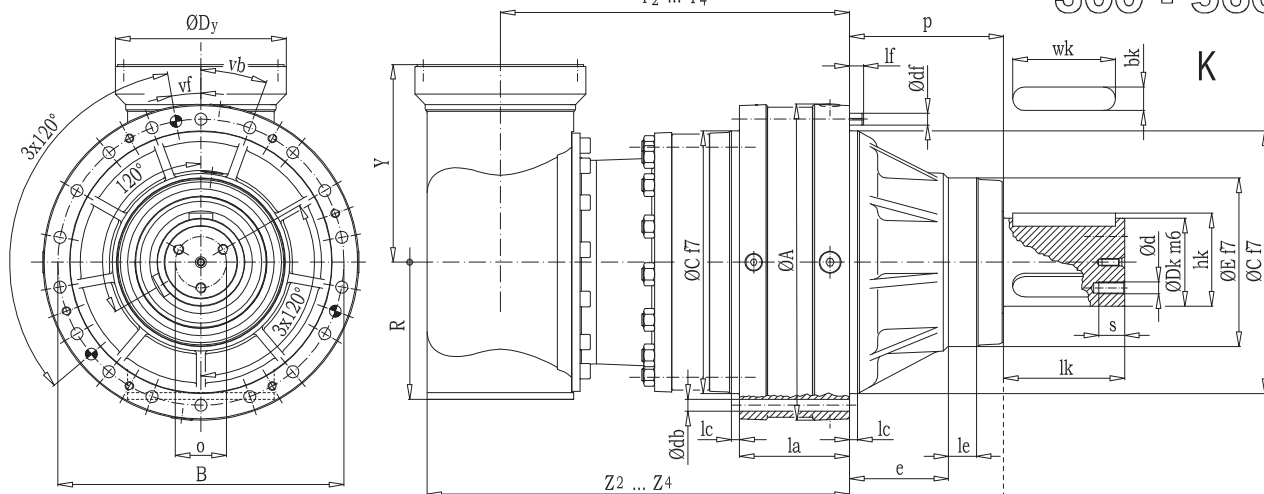
Model	140		170		200		220		260	
Torque Rating ^①	14000 Nm		17000 Nm		20000 Nm		22000 Nm		26000 Nm	
R2	NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)	
	10 (B)* 25 (B)		10 (B)* 25 (B)		12 (A) 14 (A)		12 (A) 28 (C)		13 (A) 16 (B)	
	12 (A) 30 (B)		13 (A) 16 (B)		18 (A) 21 (A)		16 (B) 34 (D)		21 (A) 25 (B)	
	16 (B) 34 (C)		21 (A)				18 (A) 25 (B)			
	18 (A) * on request		* on request							
n ₁ nom./max.	3000 rpm	4000 rpm	3000 rpm	4000 rpm	2250 rpm	3000 rpm	2250 rpm	3000 rpm	2250 rpm	3000 rpm
P th. ^③ /max.	24 kW	90 kW	24 kW	95 kW	37 kW	100 kW	42 kW	132 kW	42 kW	150 kW
R3	NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)	
	38 (B)* 125 (A)		38 (B)* 170 (B)		38 (A) 95 (A)		38 (A) 150 (B)		50 (A)	
	45 (A) 140 (B)		50 (A)		45 (A) 105 (A)		45 (A) 170 (B)		67 (A)	
	53 (B)* 150 (B)		67 (A)		50 (A) 125 (A)		60 (A) 200 (C)		80 (A)	
	60 (A) 170 (B)		80 (A)		60 (A) 150 (A)		71 (A) 240 (D)		95 (A)	
R4	NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)	
	140 (A) 710 (A)		170 (A) 850 (A)		160 (A) 530 (A)		140 (A) 560 (A)		170 (A) 750 (A)	
	160 (A) 750 (A)		190 (A) 900 (A)		190 (A) 560 (A)		160 (A) 630 (A)		190 (A) 850 (A)	
	200 (A) 850 (A)		220 (A) 1000 (A)		220 (A) 630 (A)		200 (A) 710 (A)		220 (A) 900 (A)	
	220 (A) 900 (B)		250 (A) 1200 (B)		250 (A) 670 (A)		220 (A) 800 (A)		260 (A) 1000 (A)	
R4	NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)	
	250 (A) 1000 (B)		300 (A)		300 (A) 750 (A)		240 (A) 900 (A)		300 (A) 1200 (B)	
	300 (A) 1050 (B)		340 (A)		340 (A) 800 (A)		260 (A) 1050 (B)		340 (A)	
	340 (A) 1250 (B)		400 (A)		360 (A) 850 (A)		300 (A) 1200 (B)		400 (A)	
	400 (A) 1400 (B)		450 (A)		400 (A) 900 (A)		340 (A) 1400 (C)		450 (A)	
R4	NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)	
	450 (A) 1600 (C)		480 (A)		420 (A) 1000 (A)		380 (A) 1600 (D)		500 (A)	
	500 (A)		530 (A)		450 (A)		420 (A)		560 (A)	
	560 (A)		630 (A)		480 (A)		450 (A)		630 (A)	
	630 (A)		750 (A)		500 (A)		500 (A)		670 (A)	
n ₁ nom./max.	3000 rpm	4000 rpm	3000 rpm	4000 rpm	3000 rpm	4000 rpm	3000 rpm	4000 rpm	3000 rpm	4000 rpm
P th. ^③ /max.	11.5 kW	22 kW	11.5 kW	23 kW	11.5 kW	24 kW	13 kW	25 kW	13 kW	26.5 kW
Actual Torque [Nm] ^④	(A) 18000 (B) 15000 (C) 13000		(A) 20500 (B) 18000		(A) 24000		(A) 29000 (B) 23000 (C) 21000 (D) 19000		(A) 32000 (B) 29000	
Peak Torque ^⑤	22000 Nm		26000 Nm		30000 Nm		33000 Nm		35000 Nm	

Data and dimensions are not binding and may be modified without prior notice

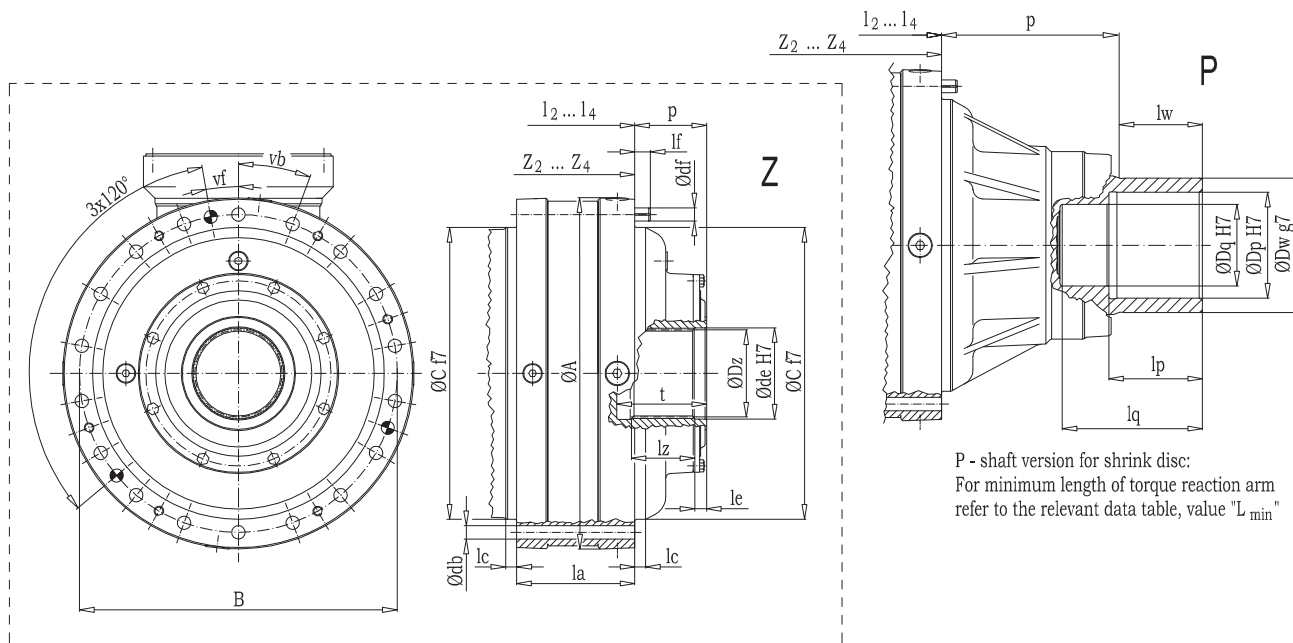
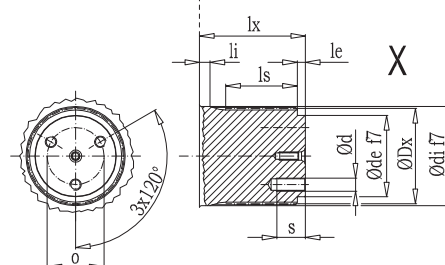


- ① Harmonized nominal value referring to Preferred Numbers R'40. Actual transmissible torque may vary depending on ratio, speed, application.
- ② Harmonized nominal value referring to Preferred Numbers R'40. For actual ratios see Annex C.
- ③ Thermal power limit. For actual figures based on speed, temperature and duty see Section B4, Specifications, Paragraph 8.
- ④ Mean value at rated conditions. For actual figures based on speed, service life and application/duty see Section B4, Specifications, Paragraph 6.
- ⑤ Restrictions may apply for hollow shaft for shrink disc, see Section G, Output Accessories. Customer to verify the mating shaft is capable of loads actually transmitted.
- ⑥ Mean values at rated conditions. For actual admissible loads based on speed, service life and application/duty see Section B4, Specifications, Paragraph 9.
- ⑦ Max. peak values, which must never be exceeded. Combined thrust and radial shaft loads might reduce bearing life. Please contact Plan-Star Engineering for accurate life calculation of your specific application.
- ⑧ Combination of high torque and heavy radial shaft load might require verification of the output shaft. If the following condition is not fulfilled, contact Plan-Star Engineering for accurate verification of your specific application:

$$\frac{\text{Radial Load (applied)}}{\text{Radial Load (admissible)}} \times \frac{\text{Torque (applied)}}{\text{Torque (nominal)}} < 0.5$$



Dimensions, Gearcase				
Model	version	Dy	R	Y
300	R2	242	187	270
	R3, R4	185	137	226
360	R2	242	187	270
	R3, R4	185	137	226
420	R2	242	187	270
	R3, R4	185	137	226
480	R2	242	187	270
	R3, R4	185	137	226
560	R2, R3	242	187	270
	R4	185	137	226



Data and dimensions are not binding and may be modified without prior notice

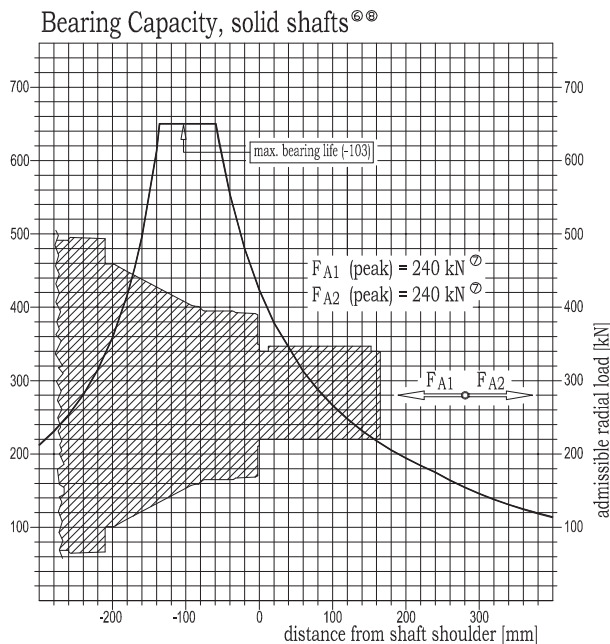
Dimensions, solid shafts																							Keyed										DIN Splined									
Model	A	la	B	db	vb	C	lc	E	le	e	df	lf	vf	p	l ₂	l ₃	l ₄	Z ₂	Z ₃	Z ₄	d	s	o	Dk	lk	bk	hk	wk	code	Dx	lx	ls	di	le	de	le	code					
300	432	122	390	16.5	18x20°	358	13.5	230	40	135	16	19	10°	210	331	331	394	434	410	473	M14	30	65	100	165	28	106	140	K 11	100x94	110	66	105	12	85	12	X 12					
360	432	125	390	16.5	18x20°	358	13.5	230	40	135	16	19	10°	210	331	334	396	434	413	475	M14	30	65	100	165	28	106	140	K 11	100x94	110	66	105	12	85	12	X 12					
420	432	125	390	16.5	18x20°	358	13.5	230	40	135	16	19	10°	210	331	334	411	434	413	490	M16	35	70	120	165	32	127	140	K 13	120x3	130	88	122	15	100	10	X 14					
480	432	150	390	16.5	18x20°	358	13.5	230	40	135	16	19	10°	210	356	359	436	459	438	515	M16	35	70	120	165	32	127	140	K 13	120x3	130	88	122	15	100	10	X 14					
560	432	150	390	16.5	18x20°	358	13.5	230	40	135	16	19	10°	210	356	476	461	459	579	540	M16	35	70	120	165	32	127	140	K 13	120x3	130	88	122	15	100	10	X 14					

Dimensions, hollow shafts										Hollow for Shrink Disc										Hollow Splined																						
Model	A	B	db	vb	C	lc	df	lf	vf	la	E	le	e	p	l ₂	l ₃	l ₄	Z ₂	Z ₃	Z ₄	D _p	l _p	D _q	l _q	D _w	l _w	code	L _{min}	la	p	l ₂	l ₃	l ₄	Z ₂	Z ₃	Z ₄	D _z	l _z	de	le	t	code
300	432	390	16.5	18x20°	358	13.5	16	19	10°	122	230	40	135	220	326	326	389	429	405	468	130	115	100	175	165	100	P 24	800	117	88	326	326	389	429	405	468	100x94	78	102	15	110	Z 21
360	432	390	16.5	18x20°	358	13.5	16	19	10°	125	230	40	135	220	326	329	391	429	408	470	130	115	100	175	165	100	P 24	800	120	88	326	329	391	429	408	470	100x94	78	102	15	110	Z 21
420	432	390	16.5	18x20°	358	13.5	16	19	10°	125	230	40	135	220	326	329	406	429	408	485	130	115	100	175	165	100	P 24	800	120	88	326	329	406	429	408	485	100x94	78	102	15	110	Z 21
480	432	390	16.5	18x20°	358	13.5	16	19	10°	150	230	40	135	220	351	354	431	454	433	510	130	115	100	175	165	100	P 24	800	145	88	351	354	431	454	433	510	110x3	78	112	15	110	Z 23
560	432	390	16.5	18x20°	358	13.5	16	19	10°	150	230	40	135	220	351	471	455	454	574	535	130	115	100	175	165	100	P 24	800	145	88	351	471	456	454	574	535	110x3	78	112	15	110	Z 23

DIMENSIONS IN MM UNLESS OTHERWISE SPECIFIED

Model	300		360		420		480		560	
Torque Rating ^①	30000 Nm		36000 Nm		42000 Nm		48000 Nm		56000 Nm	
R2	NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)	
	12 (A) 25 (B)		13 (A)		12 (A)		16 (B)		16 (B)	
	16 (B) 30 (B)		16 (B)		14 (A)		25 (B)			
	18 (A) 34 (C)		21 (A)		18 (A)		28 (C)			
	21 (C)		25 (B)		21 (A)		34 (D)			
n ₁ nom./max.	2250 rpm	3000 rpm	2250 rpm	3000 rpm	2250 rpm	3000 rpm	2250 rpm	3000 rpm	2250 rpm	3000 rpm
P th. ^③ /max.	37 kW	150 kW	37 kW	160 kW	37 kW	170 kW	45 kW	200 kW	45 kW	220 kW
R3	NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)	
	42 (A) 140 (B)		50 (A)		42 (A) 110 (A)		50 (A) 170 (C)		50 (A)	
	60 (A) 150 (B)		67 (A)		50 (A) 125 (A)		60 (A) 210 (D)		67 (A)	
	67 (A) 170 (B)		80 (A)		60 (A) 150 (A)		71 (A)		80 (A)	
	71 (B) 210 (B)		95 (A)		67 (A)		80 (A)		95 (A)	
R4	NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)	
	140 (A) 560 (A)		170 (A) 710 (A)		160 (A) 710 (A)		190 (A) 1050 (B)		170 (A) 670 (A)	
	160 (A) 630 (A)		200 (B) 800 (A)		190 (A) 800 (A)		220 (A) 1200 (C)		190 (A) 710 (B)	
	200 (A) 710 (A)		220 (A) 900 (A)		220 (A) 900 (A)		260 (A) 1400 (D)		220 (A) 750 (A)	
	220 (A) 800 (A)		250 (A) 1050 (B)		260 (A) 1000 (A)		300 (A)		250 (A) 850 (A)	
R4	NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)	
	250 (A) 900 (A)		280 (A)		300 (A)		340 (A)		300 (A) 900 (A)	
	260 (A) 1000 (B)		320 (A)		340 (A)		360 (A)		340 (A) 1000 (A)	
	300 (A) 1050 (B)		360 (A)		360 (A)		400 (A)		360 (A) 1050 (B)	
	340 (A) 1200 (B)		400 (A)		400 (A)		450 (A)		420 (A) 1200 (B)	
R4	NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)		NOM. RATIO ^② (ACT. RATING)	
	360 (A) 1250 (B)		450 (A)		450 (A)		500 (A)		480 (A)	
	400 (A) 1400 (B)		500 (A)		500 (A)		560 (A)		530 (A)	
	450 (A) 1600 (C)		560 (A)		560 (A)		670 (A)		560 (A)	
	500 (A)		630 (A)		630 (A)		800 (A)		630 (A)	
n ₁ nom./max.	3000 rpm	4000 rpm	3000 rpm	4000 rpm	3000 rpm	4000 rpm	3000 rpm	4000 rpm	3000 rpm	4000 rpm
P th. ^③ /max.	15 kW	28 kW	15 kW	29 kW	15 kW	30 kW	17 kW	31 kW	17 kW	33 kW
Actual Torque [Nm] ^④	(A) 37000 (B) 33000 (C) 28000		(A) 44000 (B) 39000		(A) 51000		(A) 56000 (B) 51000 (C) 47000 (D) 42500		(A) 65000 (B) 58000	
Peak Torque ^⑤	45000 Nm		52000 Nm		58000 Nm		65000 Nm		75000 Nm	

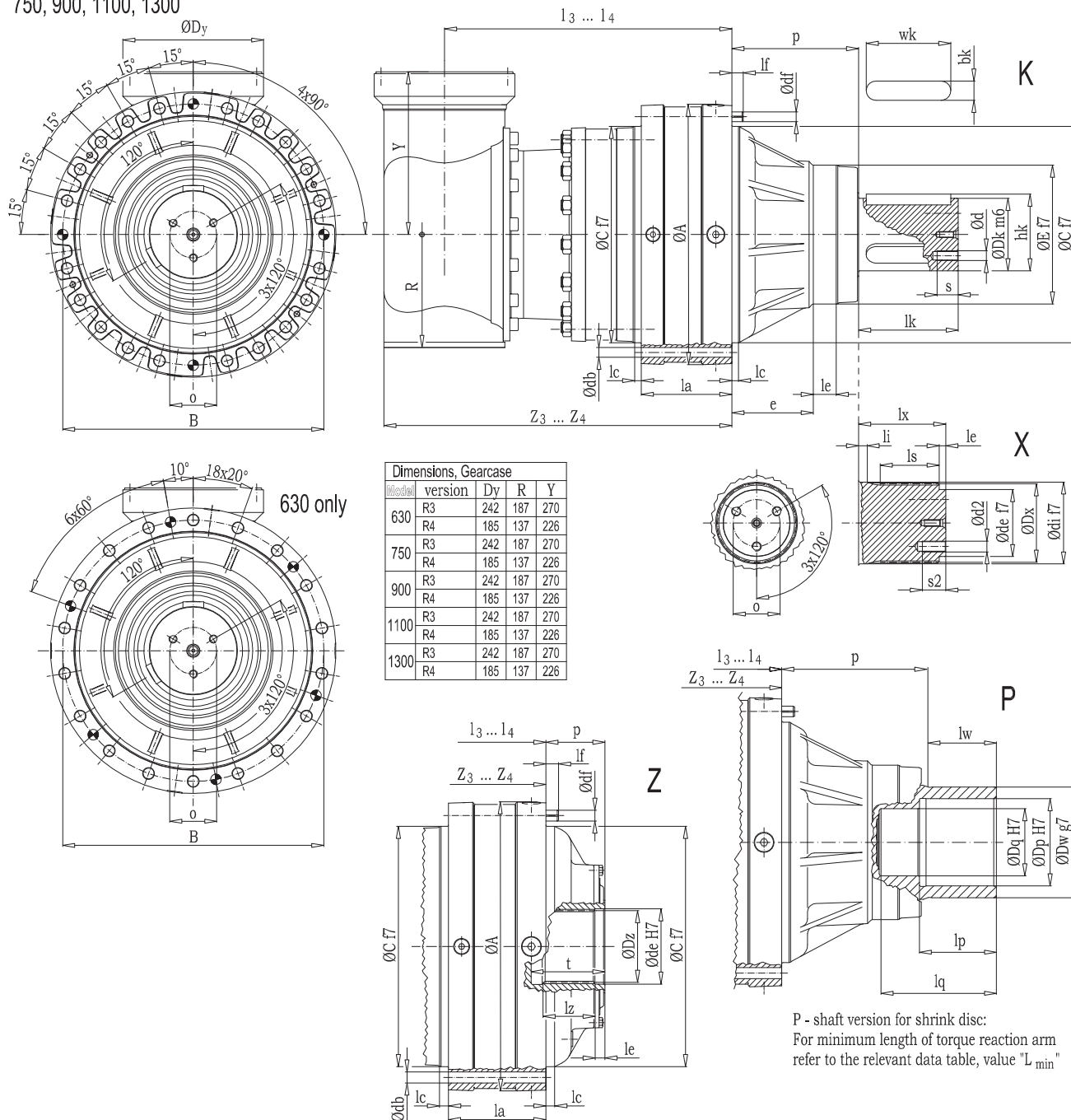
Data and dimensions are not binding and may be modified without prior notice



- ① Harmonized nominal value referring to Preferred Numbers R'40. Actual transmissible torque may vary depending on ratio, speed, application.
- ② Harmonized nominal value referring to Preferred Numbers R'40. For actual ratios see Annex C.
- ③ Thermal power limit. For actual figures based on speed, temperature and duty see Section B4, Specifications, Paragraph 8.
- ④ Mean value at rated conditions. For actual figures based on speed, service life and application/duty see Section B4, Specifications, Paragraph 6.
- ⑤ Restrictions may apply for hollow shaft for shrink disc, see Section G, Output Accessories. Customer to verify the mating shaft is capable of loads actually transmitted.
- ⑥ Mean values at rated conditions. For actual admissible loads based on speed, service life and application/duty see Section B4, Specifications, Paragraph 9.
- ⑦ Max. peak values, which must never be exceeded. Combined thrust and radial shaft loads might reduce bearing life. Please contact Plan-Star Engineering for accurate life calculation of your specific application.
- ⑧ Combination of high torque and heavy radial shaft load might require verification of the output shaft. If the following condition is not fulfilled, contact Plan-Star Engineering for accurate verification of your specific application:

$$\frac{\text{Radial Load (applied)}}{\text{Radial Load (admissible)}} \times \frac{\text{Torque (applied)}}{\text{Torque (nominal)}} < 0.5$$

750, 900, 1100, 1300



Data and dimensions are not binding and may be modified without prior notice

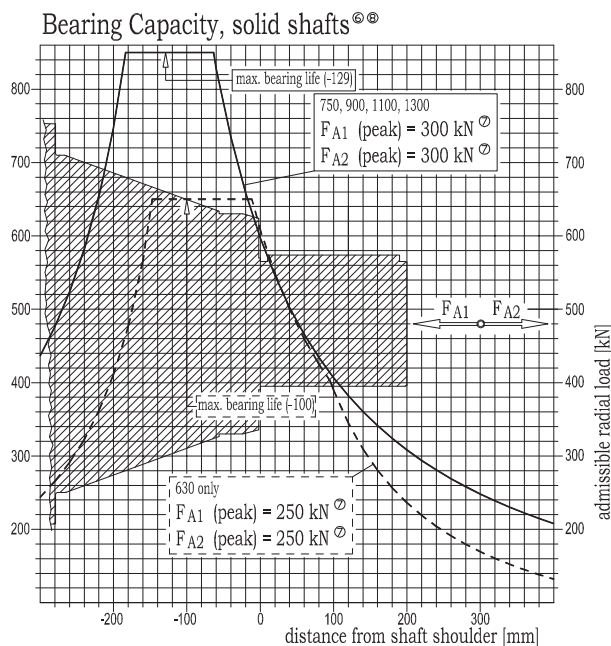
Dimensions, solid shafts																		Keyed														DIN Splined													
Media	A	la	la	db	C	lc	E	le	e	df	lf	p	l ₃	l ₄	Z ₃	Z ₄	Dk	lk	bk	hk	wk	d1	s1	o	code	Dx	lx	ls	di	li	de	le	d2	s2	o	code									
630	460	152	415	19	385	13	260	38	152	16	20	227	471	455	574	535	130	170	32	137	160	M16	35	70	K 11	130x3	130	188	132	15	110	10	M16	35	70	X 12									
750	550	154	503	21	460	13.5	300	30	224	20	25	279	497	497	600	576	150	200	36	158	180	M16	35	70	K 11	150x5	150	107	151	15	125	12	M16	35	70	X 12									
900	550	154	503	21	460	13.5	300	30	224	20	25	279	497	497	600	576	150	200	36	158	180	M16	35	70	K 11	150x5	150	107	151	15	125	12	M16	35	70	X 12									
1100	550	184	503	21	460	13.5	300	30	224	20	25	279	552	555	655	634	170	200	40	179	180	M16	35	90	K 13	170x5	170	120	171	15	145	12	M16	35	90	X 14									
1300	550	184	503	21	460	13.5	300	30	224	20	25	279	552	555	655	634	170	200	40	179	180	M16	35	90	K 13	170x5	170	120	171	15	145	12	M16	35	90	X 14									

Dimensions, hollow shafts										Hollow for Shrink Disc														Hollow Splined													
Media	A	B	db	C	lc	df	lf	A	E	le	e	p	l ₃	l ₄	Z ₃	Z ₄	Dp	lp	Dq	lq	Dw	lw	code	L _{min}	la	p	l ₃	l ₄	Z ₃	Z ₄	Dz	lz	de	le	t	code	
630	460	415	19	385	13	16	20	152	260	38	152	237	471	455	574	535	140	145	130	202	185	125	P 22	900	152	81	471	455	574	535	130x3	130	182	10	110	110	Z 21
750	550	503	21	460	13.5	20	25	154	300	30	224	287	497	497	600	576	160	160	130	220	200	140	P 22	1100	154	98	497	497	600	576	150x5	90	152	20	120	120	Z 21
900	550	503	21	460	13.5	20	25	154	300	30	224	287	497	497	600	576	160	160	130	227	200	140	P 22	1100	154	98	497	497	600	576	150x5	90	152	20	120	120	Z 21
1100	550	503	21	460	13.5	20	25	184	300	30	224	287	552	555	655	634	170	170	130	247	220	150	P 24	1100	184	98	552	555	655	634	160x5	93	162	20	120	120	Z 23
1300	550	503	21	460	13.5	20	25	184	300	30	224	287	552	555	655	634	170	170	130	247	220	150	P 24	1100	184	98	552	555	655	634	160x5	93	162	20	120	120	Z 23

DIMENSIONS IN MM UNLESS OTHERWISE SPECIFIED

Model	630		750		900		1100		1300	
Torque Rating ^①	63000 Nm		75000 Nm		90000 Nm		110000 Nm		130000 Nm	
R3	NOM. RATIO ^② (ACT. RATING) 53 (A) 71 (A) 80 (A) 95 (A) 110 (A) 130 (A) 150 (A)		NOM. RATIO ^② (ACT. RATING) 40 (B) 100 (A) 45 (A) 110 (B) 53 (B) 120 (A) 60 (B) 140 (A) 63 (A) 160 (B) 75 (A) 180 (B) 80 (B) 90 (A)		NOM. RATIO ^② (ACT. RATING) 40 (B) 100 (A) 45 (A) 110 (B) 53 (B) 120 (A) 60 (B) 140 (A) 63 (A) 160 (B) 75 (A) 180 (B) 80 (B) 90 (A)		NOM. RATIO ^② (ACT. RATING) 40 (B) 100 (A) 45 (A) 110 (B) 53 (B) 120 (A) 60 (B) 140 (A) 63 (A) 150 (B) 75 (A) 180 (B) 80 (B) 90 (A)		NOM. RATIO ^② (ACT. RATING) 53 (B) 140 (A) 60 (B) 150 (B) 63 (A) 180 (B) 75 (A) 80 (B) 90 (A) 95 (B) 120 (A)	
n ₁ nom./max.	2250 rpm	3000 rpm	2250 rpm	3000 rpm	2250 rpm	3000 rpm	2250 rpm	3000 rpm	2250 rpm	3000 rpm
P th. ^③ /max.	28 kW	110 kW	37 kW	150 kW	41 kW	160 kW	45 kW	200 kW	50 kW	220 kW
R4	NOM. RATIO ^② (ACT. RATING) 170 (A) 1050 (A) 200 (A) 240 (A) 280 (A) 320 (A) 360 (A) 420 (A) 480 (A) 560 (A) 630 (A) 750 (A) 900 (A)		NOM. RATIO ^② (ACT. RATING) 150 (B) 630 (A) 180 (A) 710 (A) 200 (B) 750 (B) 240 (A) 850 (A) 280 (A) 950 (A) 320 (A) 1100 (B) 360 (A) 1200 (B) 400 (A) 450 (A) 500 (A) 530 (A) 600 (A)		NOM. RATIO ^② (ACT. RATING) 150 (B) 630 (A) 180 (A) 710 (A) 200 (B) 750 (B) 240 (A) 850 (A) 280 (A) 950 (A) 320 (A) 1100 (B) 360 (A) 1200 (B) 400 (A) 450 (A) 500 (A) 530 (A) 600 (A)		NOM. RATIO ^② (ACT. RATING) 180 (A) 710 (A) 200 (B) 750 (B) 240 (A) 850 (A) 280 (A) 950 (A) 320 (A) 1100 (B) 360 (A) 1200 (B) 400 (A) 450 (A) 500 (A) 530 (A) 600 (A) 630 (A)		NOM. RATIO ^② (ACT. RATING) 180 (A) 710 (A) 200 (B) 750 (B) 240 (A) 850 (A) 280 (A) 950 (A) 320 (A) 1100 (B) 360 (A) 1200 (B) 400 (A) 450 (A) 500 (A) 530 (A) 600 (A) 630 (A)	
n ₁ nom./max.	3000 rpm	4000 rpm	3000 rpm	4000 rpm	3000 rpm	4000 rpm	3000 rpm	4000 rpm	3000 rpm	4000 rpm
P th. ^③ /max.	17 kW	37 kW	24 kW	63 kW	26.5 kW	70 kW	30 kW	90 kW	33 kW	100 kW
Actual Torque [Nm] ^④	(A) 73000		(A) 89000 (B) 75000		(A) 110000 (B) 92000		(A) 133000 (B) 112000		(A) 160000 (B) 135000	
Peak Torque ^⑤	100000 Nm		140000 Nm		160000 Nm		190000 Nm		215000 Nm	

Data and dimensions are not binding and may be modified without prior notice



- ① Harmonized nominal value referring to Preferred Numbers R'40. Actual transmissible torque may vary depending on ratio, speed, application.
- ② Harmonized nominal value referring to Preferred Numbers R'40. For actual ratios see Annex C.
- ③ Thermal power limit. For actual figures based on speed, temperature and duty see Section B4, Specifications, Paragraph 8.
- ④ Mean value at rated conditions. For actual figures based on speed, service life and application/duty see Section B4, Specifications, Paragraph 6.
- ⑤ Restrictions may apply for hollow shaft for shrink disc, see Section G, Output Accessories. Customer to verify the mating shaft is capable of loads actually transmitted.
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