

P - shaft version for shrink disc:  
For minimum length of torque reaction arm refer to the relevant data table, value "L<sub>min</sub>"

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

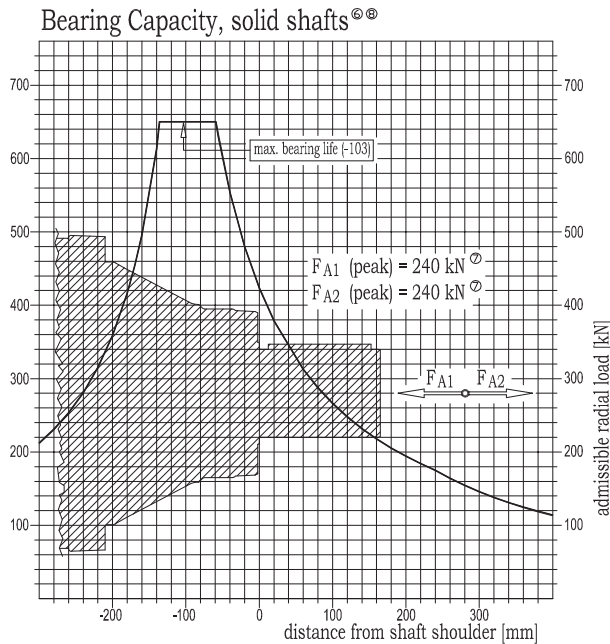
Dimensions, solid shafts																	Keyed										DIN Spined													
Model	A	B	db	vb	C	lc	df	lf	vf	la	le	e	df	lf	vf	p	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	Dk	lk	bk	hk	wk	d1	s1	o	code	Dx	lx	ls	di	li	de	le	d2	s2	o	code
300	432	122	390	16.5	18x20°	358	13.5	230	40	135	16	19	10°	210	154.5	196	265	319	100	165	28	106	140	M14	30	65	K 11	100x94	110	66	105	12	85	12	M14	30	65	X 12		
360	432	125	390	16.5	18x20°	358	13.5	230	40	135	16	19	10°	210	165.5	197	267	321	100	165	28	106	140	M14	30	65	K 11	100x94	110	66	105	12	85	12	M14	30	65	X 12		
420	432	125	390	16.5	18x20°	358	13.5	230	40	135	16	19	10°	210	165.5	197	282	336	120	165	32	127	140	M16	35	70	K 13	120x3	130	88	122	15	100	10	M16	35	70	X 14		
480	432	150	390	16.5	18x20°	358	13.5	230	40	135	16	19	10°	210	190.5	222	307	361	120	165	32	127	140	M16	35	70	K 13	120x3	130	88	122	15	100	10	M16	35	70	X 14		
560	432	150	390	16.5	18x20°	358	13.5	230	40	135	16	19	10°	210	190.5	242	326	395	120	165	32	127	140	M16	35	70	K 13	120x3	130	88	122	15	100	10	M16	35	70	X 14		

Dimensions, hollow shafts																	Hollow for Shrink Disc										Hollow Spined											
Model	A	B	db	vb	C	lc	df	lf	vf	la	le	e	p	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	Dp	lp	Dq	lq	Dw	lw	code	L <sub>min</sub>	la	p	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	Dz	lz	de	le	t	code	
300	432	390	16.5	18x20°	358	13.5	16	19	10°	122	230	40	135	220	154.5	196	265	319	130	115	100	175	165	100	P 24	800	117	88	149.5	191	260	314	100x94	78	102	15	110	Z 21
360	432	390	16.5	18x20°	358	13.5	16	19	10°	125	230	40	135	220	165.5	197	267	321	130	115	100	175	165	100	P 24	800	120	88	160.5	192	262	316	100x94	78	102	15	110	Z 21
420	432	390	16.5	18x20°	358	13.5	16	19	10°	125	230	40	135	220	165.5	197	282	336	130	115	100	175	165	100	P 24	800	120	88	160.5	192	277	331	100x94	78	102	15	110	Z 21
480	432	390	16.5	18x20°	358	13.5	16	19	10°	150	230	40	135	220	190.5	222	307	361	130	115	100	175	165	100	P 24	800	145	88	185.5	217	302	356	110x3	78	112	15	110	Z 23
560	432	390	16.5	18x20°	358	13.5	16	19	10°	150	230	40	135	220	190.5	242	326	395	130	115	100	175	165	100	P 24	800	145	88	185.5	237	321	390	110x3	78	112	15	110	Z 23

DIMENSIONS IN MM UNLESS OTHERWISE SPECIFIED

Model	300		360		420		480		560	
Torque Rating <sup>Ⓞ</sup>	30000 Nm		36000 Nm		42000 Nm		48000 Nm		56000 Nm	
L1	RATIO (ACT. RATING) 3.7 (A) 6.1 (B) 5.0 (B) 6.9 (C)		RATIO (ACT. RATING) 4.3 (A) 5.1 (B)		RATIO (ACT. RATING) 3.7 (A) 4.4 (A)		RATIO (ACT. RATING) 3.7 (A) 5.8 (C) 5.0 (B) 6.9 (D)		RATIO (ACT. RATING) 4.3 (A) 5.1 (B)	
n <sub>1</sub> nom./max.	1800 rpm	2500 rpm	1800 rpm	2500 rpm	1800 rpm	2500 rpm	1500 rpm	2000 rpm	1500 rpm	2000 rpm
P th. <sup>Ⓞ</sup> / P mech.	40 kW	280 kW	40 kW	290 kW	40 kW	300 kW	45 kW	330 kW	45 kW	360 kW
L2	NOM. RATIO <sup>Ⓞ</sup> (ACT. RATING) 14 (A) 36 (B) 19 (A) 42 (B) 22 (A) 48 (C) 26 (A) 30 (B)		NOM. RATIO <sup>Ⓞ</sup> (ACT. RATING) 14 (A)* 30 (A) 16 (A) 35 (B) 19 (B) 22 (A) 26 (A) * on request		NOM. RATIO <sup>Ⓞ</sup> (ACT. RATING) 12 (A)* 26 (A) 14 (A) 30 (A) 16 (A) 19 (A) 22 (A) * on request		NOM. RATIO <sup>Ⓞ</sup> (ACT. RATING) 12 (A)* 30 (B) 16 (A) 36 (C) 19 (A) 42 (D) 22 (A) 26 (B) * on request		NOM. RATIO <sup>Ⓞ</sup> (ACT. RATING) 16 (A) 35 (B) 19 (B) 22 (A) 25 (A) 30 (A)	
n <sub>1</sub> nom./max.	2000 rpm	3000 rpm	2000 rpm	3000 rpm	2000 rpm	3000 rpm	2000 rpm	3000 rpm	1800 rpm	2500 rpm
P th. <sup>Ⓞ</sup> / P mech.	25 kW	150 kW	25 kW	160 kW	25 kW	170 kW	30 kW	200 kW	30 kW	220 kW
L3	NOM. RATIO <sup>Ⓞ</sup> (ACT. RATING) 48 (A) 130 (A) 260 (B) 53 (A) 150 (A) 300 (B) 63 (A) 160 (A) 340 (C) 71 (A) 180 (A) 80 (A) 200 (B) 95 (A) 220 (B) 110 (A) 240 (B)		NOM. RATIO <sup>Ⓞ</sup> (ACT. RATING) 53 (A) 150 (A) 63 (B) 160 (A) 71 (A) 180 (A) 80 (A) 210 (B) 95 (A) 110 (A) 130 (A)		NOM. RATIO <sup>Ⓞ</sup> (ACT. RATING) 53 (A) 130 (A) 60 (A) 150 (A) 71 (A) 160 (A) 80 (A) 180 (A) 85 (A) 210 (A) 95 (A) 110 (A)		NOM. RATIO <sup>Ⓞ</sup> (ACT. RATING) 60 (A) 160 (A) 71 (A) 180 (B) 80 (A) 210 (B) 85 (A) 250 (C) 95 (A) 300 (D) 110 (A) 130 (A)		NOM. RATIO <sup>Ⓞ</sup> (ACT. RATING) 53 (A) 150 (A) 60 (A) 170 (A) 71 (B) 180 (A) 80 (A) 210 (A) 95 (A) 240 (B) 110 (A) 130 (A)	
n <sub>1</sub> nom./max.	2800 rpm	3800 rpm	2800 rpm	3800 rpm	2800 rpm	3800 rpm	2800 rpm	3800 rpm	2800 rpm	3800 rpm
P th. <sup>Ⓞ</sup> / P mech.	16 kW	70 kW	16 kW	75 kW	16 kW	80 kW	18.5 kW	90 kW	18.5 kW	100 kW
L4	NOM. RATIO <sup>Ⓞ</sup> (ACT. RATING) 200 (A) 560 (A) 1100 (A) 240 (A) 600 (A) 1250 (A) 260 (A) 670 (A) 1400 (B) 300 (A) 710 (A) 1500 (B) 320 (A) 750 (A) 1700 (B) 360 (A) 800 (A) 1800 (B) 420 (A) 900 (A) 2000 (B) 480 (A) 1050 (A) 2300 (C)		NOM. RATIO <sup>Ⓞ</sup> (ACT. RATING) 200 (A) 560 (A) 1500 (B) 240 (A) 670 (A) 260 (A) 750 (A) 300 (A) 800 (B) 360 (A) 900 (A) 380 (A) 1050 (A) 420 (A) 1200 (B) 480 (A) 1300 (A)		NOM. RATIO <sup>Ⓞ</sup> (ACT. RATING) 220 (A) 600 (A) 260 (A) 670 (A) 300 (A) 750 (A) 320 (A) 800 (A) 360 (A) 900 (A) 420 (A) 1050 (A) 480 (A) 1250 (A) 560 (A) 1400 (A)		NOM. RATIO <sup>Ⓞ</sup> (ACT. RATING) 200 (A) 500 (A) 900 (A) 220 (A) 530 (A) 1000 (A) 260 (A) 560 (A) 1100 (A) 300 (A) 600 (A) 1200 (B) 320 (A) 670 (A) 1300 (B) 360 (A) 710 (A) 1500 (B) 420 (A) 750 (A) 1700 (C) 480 (A) 800 (A) 2000 (D)		NOM. RATIO <sup>Ⓞ</sup> (ACT. RATING) 220 (A) 670 (A) 1400 (A) 260 (B) 750 (A) 1500 (B) 300 (A) 850 (A) 1700 (B) 360 (A) 900 (A) 420 (A) 950 (A) 480 (A) 1050 (A) 560 (A) 1200 (A) 600 (A) 1300 (A)	
n <sub>1</sub> nom./max.	3000 rpm	4000 rpm	3000 rpm	4000 rpm	3000 rpm	4000 rpm	3000 rpm	4000 rpm	2800 rpm	3800 rpm
P th. <sup>Ⓞ</sup> / P mech.	12 kW	28 kW	12 kW	29 kW	12 kW	30 kW	14 kW	31 kW	14 kW	33 kW
Actual Torque [Nm] <sup>Ⓞ</sup>	(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 <sup>Ⓞ</sup>	45000 Nm		52000 Nm		58000 Nm		65000 Nm		75000 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:

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