

**300**

**NPC**

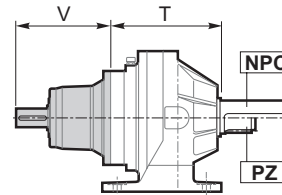
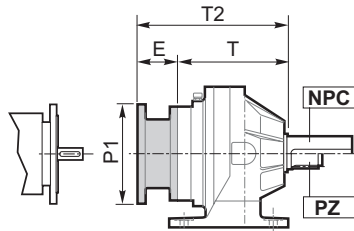
**PZ**

**25.0 - INSTALLATION DRAWINGS**

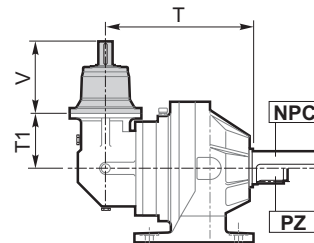
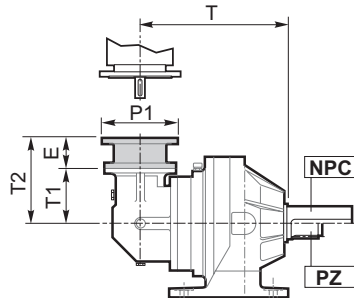
**NEMA input**

**Solid input shaft**

**300L**



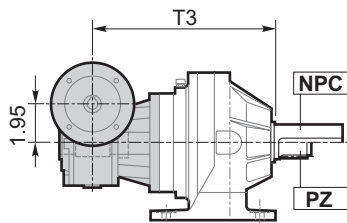
**300R**



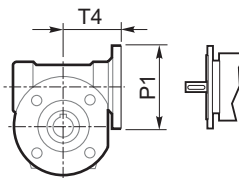
300 L1, L2, L3, L4 300 R2, R3, R4		
Solid input shaft		
	NV01A	NV01B
V	6.00	6.44
V1	1.125	1.625
V2	2.00	2.50
V4	4.72	4.72
V5	7.32	7.32
A	0.250	0.375
B	0.250	0.375
F	1.236	1.791
L	1.75	2.00
D	3/8 - 16UNC	1/2 - 13UNC
U	0.87	1.10
Lbs	13.2	15.4

(mm)	inch	T
—	1.125 h6	$\begin{matrix} 0 \\ -0.00051 \end{matrix}$
—	1.625 h6	$\begin{matrix} 0 \\ -0.00063 \end{matrix}$

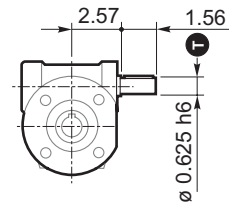
**3/V 00L3**



**NEMA input**

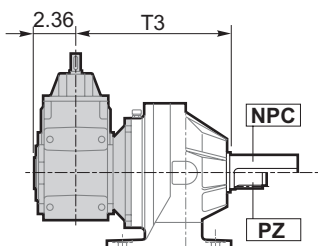


**Solid input shaft**

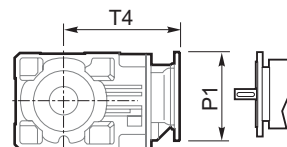


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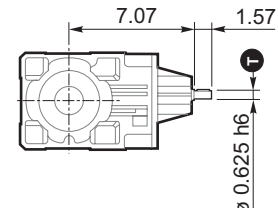
**3/A 00L2**



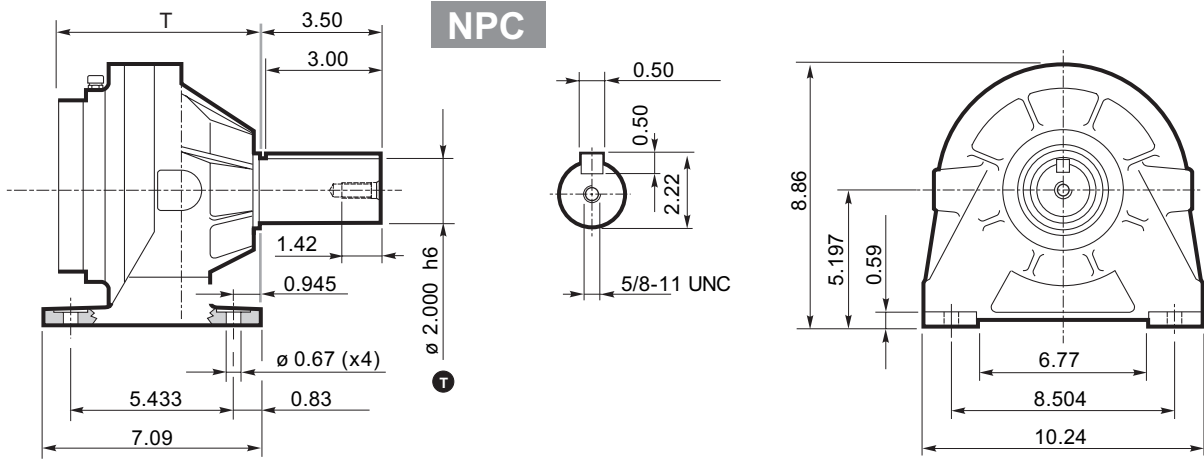
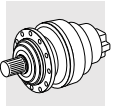
**NEMA input**



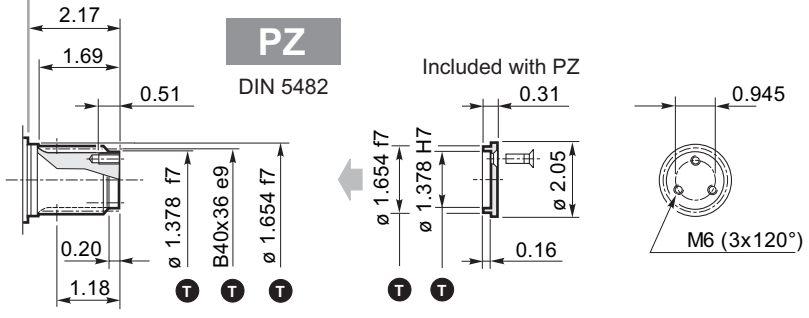
**Solid input shaft**



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(mm)	inch	T
—	0.625 h6	0 -0.00043
—	0.750 h6	0 -0.00051
(35)	1.378 f7	-0.00098 -0.00197
(35)	1.378 H7	+0.00098 0
(42)	1.654 f7	-0.00098 -0.00197
—	2.000 h6	0 -0.00075
B40x36 e9		DIN 5482

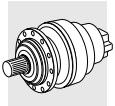


	300 L1	300 L2	300 L3	300 L4	300 R2	300 R3	300 R4
<b>T</b>	4.77	6.85	8.94	11.03	8.39	10.47	12.56
<b>T1</b>	—	—	—	—	4.80	4.80	4.80
<b>Lbs</b>	50.7	59.5	68.4	77.2	81.6	90.4	99.2

	3/V 00L3	3/A 00L2
<b>T3</b>	11.66	9.21
<b>Lbs</b>	66.2	94.8

NEMA Input										
	P1	E	T2							
<b>N56C</b>	9.84	4.51	9.27	11.36	13.45	15.53	9.31	9.31	9.31	
<b>N140TC</b>	9.84	4.51	9.27	11.36	13.45	15.53	9.31	9.31	9.31	
<b>N180TC</b>	8.82	5.22	9.98	12.07	14.16	16.24	10.02	10.02	10.02	
<b>N210TC</b>	8.82	5.22	9.98	12.07	14.16	16.24	10.02	10.02	10.02	
<b>N250TC</b>	8.82	5.22	9.98	12.07	14.16	16.24	10.02	10.02	10.02	
<b>N280TC</b>	11.81	6.28	11.05	13.13	15.22	17.31	11.08	11.08	11.08	

	P1	T4	P1	T4
	6.54	3.48	6.50	9.15
	—	—	6.50	9.15
	—	—	9.00	9.90
	—	—	—	—
	—	—	—	—
	—	—	—	—



300

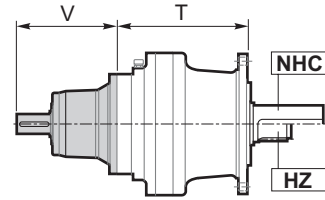
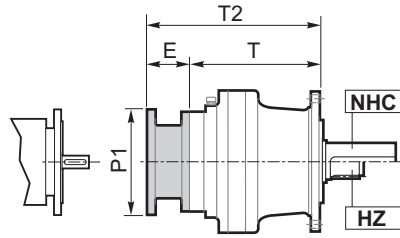
NHC

HZ

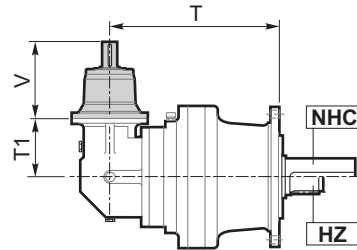
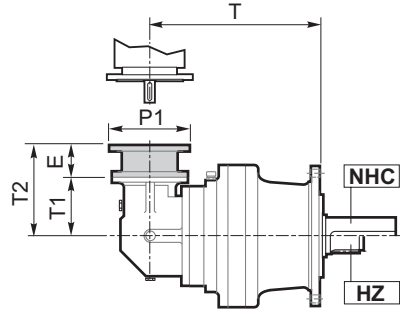
NEMA input

Solid input shaft

300L



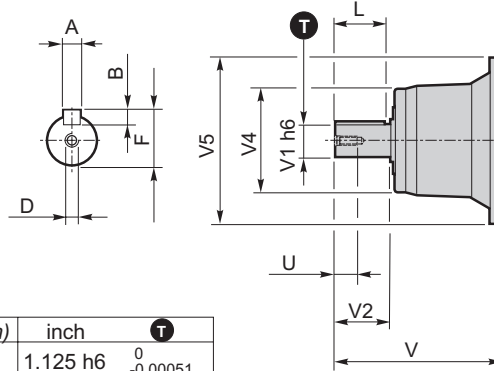
300R



300 L1, L2, L3, L4 300 R2, R3, R4		
Solid input shaft		
	NV01A	NV01B
V	6.00	6.44
V1	1.125	1.625
V2	2.00	2.50
V4	4.72	4.72
V5	7.32	7.32
A	0.250	0.375
B	0.250	0.375
F	1.236	1.791
L	1.75	2.00
D	3/8 - 16UNC	1/2 - 13UNC
U	0.87	1.10
Lbs	13.2	15.4

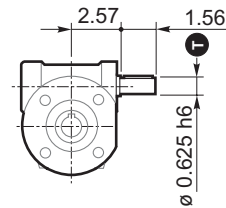
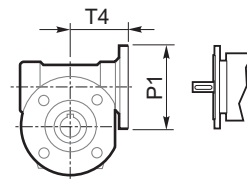
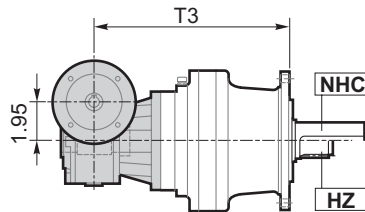
(mm)	inch	T
— 1.125 h6	0	-0.00051
— 1.625 h6	0	-0.00063



3/V 00L3

NEMA input

Solid input shaft

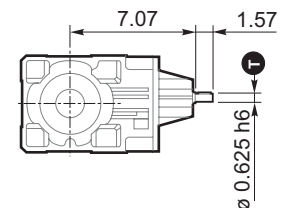
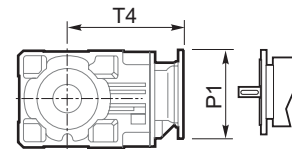
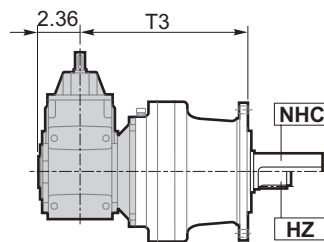


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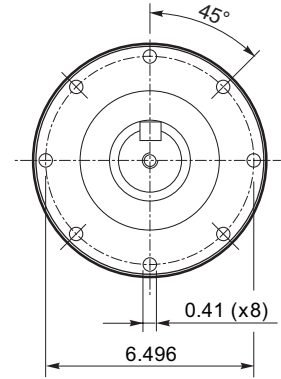
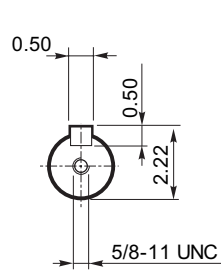
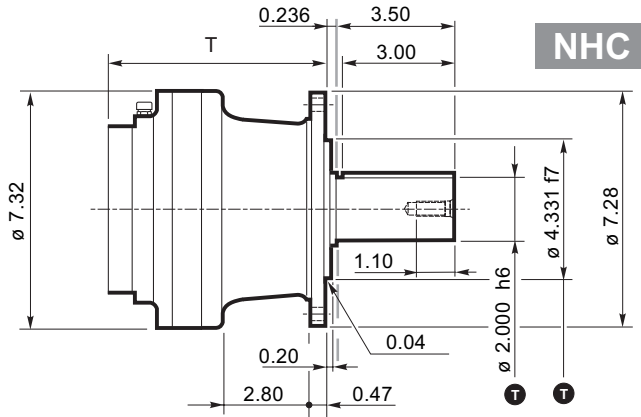
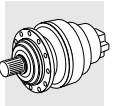
3/A 00L2

NEMA input

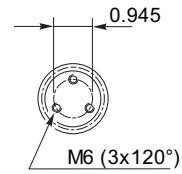
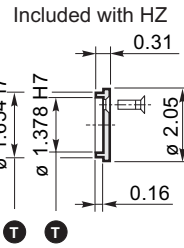
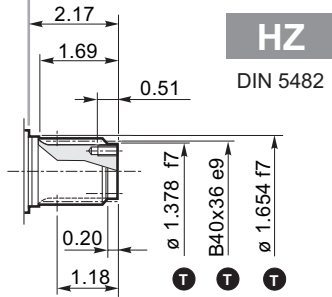
Solid input shaft



268



(mm)	inch	T
—	0.625 h6	<sup>0</sup> <sub>-0.00043</sub>
(35)	1.378 f7	<sup>-0.00098</sup> <sub>-0.00197</sub>
(35)	1.378 H7	<sup>+0.00098</sup> <sub>0</sub>
(42)	1.654 f7	<sup>-0.000988</sup> <sub>-0.00197</sub>
—	2.000 h6	<sup>0</sup> <sub>-0.00075</sub>
—	4.331 f7	<sup>-0.00142</sup> <sub>-0.00280</sub>
B40x36 e9		DIN 5482

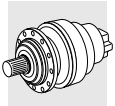


	300 L1	300 L2	300 L3	300 L4	300 R2	300 R3	300 R4
<b>T</b>	4.53	6.61	8.70	10.79	8.15	10.24	12.32
<b>T1</b>	—	—	—	—	4.80	4.80	4.80
<b>Lbs</b>	44.1	52.9	61.7	70.6	75.0	83.8	92.6

	3/V 00L3	3/A 00L2
<b>T3</b>	11.42	8.98
<b>Lbs</b>	59.5	88.2

NEMA Input									
	P1	E	T2						
<b>N56C</b>	9.84	4.51	9.04	11.12	13.21	15.30	9.31	9.31	9.31
<b>N140TC</b>	9.84	4.51	9.04	11.12	13.21	15.30	9.31	9.31	9.31
<b>N180TC</b>	8.82	5.22	9.74	11.83	13.92	16.00	10.02	10.02	10.02
<b>N210TC</b>	8.82	5.22	9.74	11.83	13.92	16.00	10.02	10.02	10.02
<b>N250TC</b>	8.82	5.22	9.74	11.83	13.92	16.00	10.02	10.02	10.02
<b>N280TC</b>	11.81	6.28	10.81	12.89	14.98	17.07	11.08	11.08	11.08

	P1	T4	P1	T4
	6.54	3.48	6.50	9.15
	—	—	6.50	9.15
	—	—	9.00	9.90
	—	—	—	—
	—	—	—	—
	—	—	—	—



300

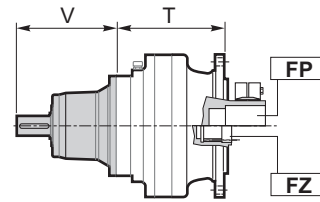
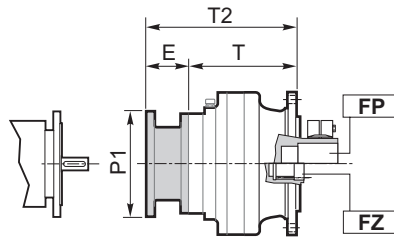
FP

FZ

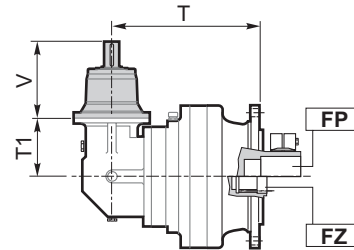
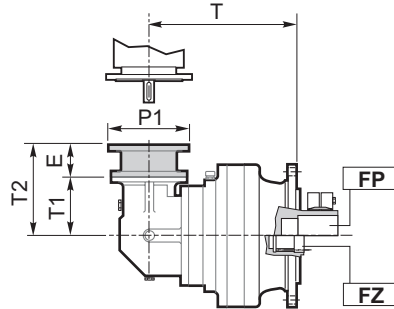
NEMA input

Solid input shaft

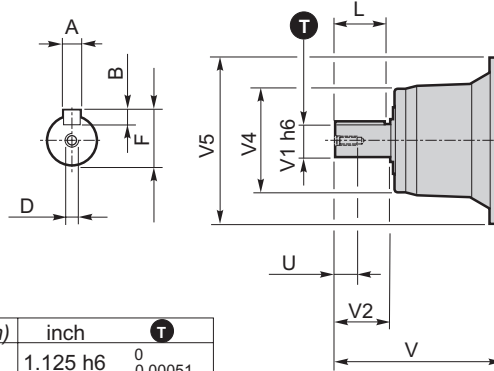
300L



300R



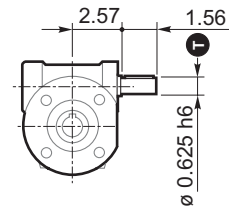
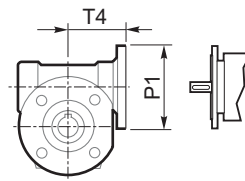
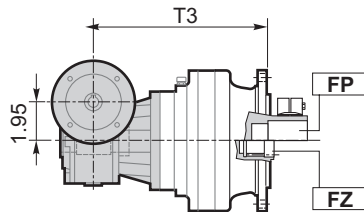
300 L1, L2, L3, L4 300 R2, R3, R4		
Solid input shaft		
	NV01A	NV01B
V	6.00	6.44
V1	1.125	1.625
V2	2.00	2.50
V4	4.72	4.72
V5	7.32	7.32
A	0.250	0.375
B	0.250	0.375
F	1.236	1.791
L	1.75	2.00
D	3/8 - 16UNC	1/2 - 13UNC
U	0.87	1.10
Lbs	13.2	15.4



3/V 00L3

NEMA input

Solid input shaft

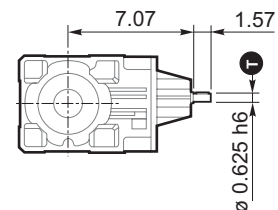
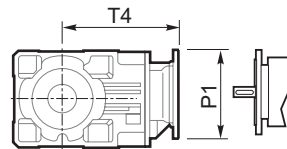
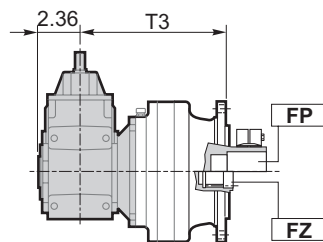


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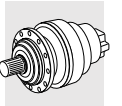
3/A 00L2

NEMA input

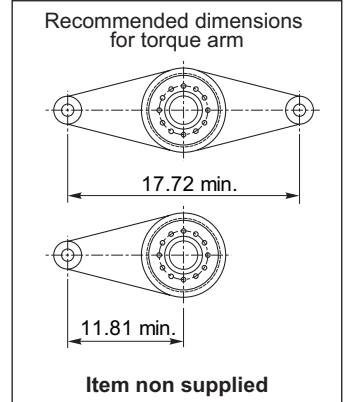
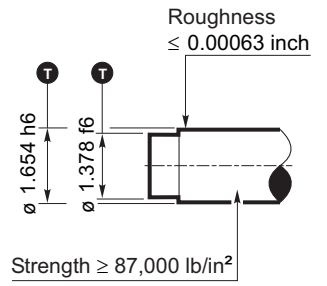
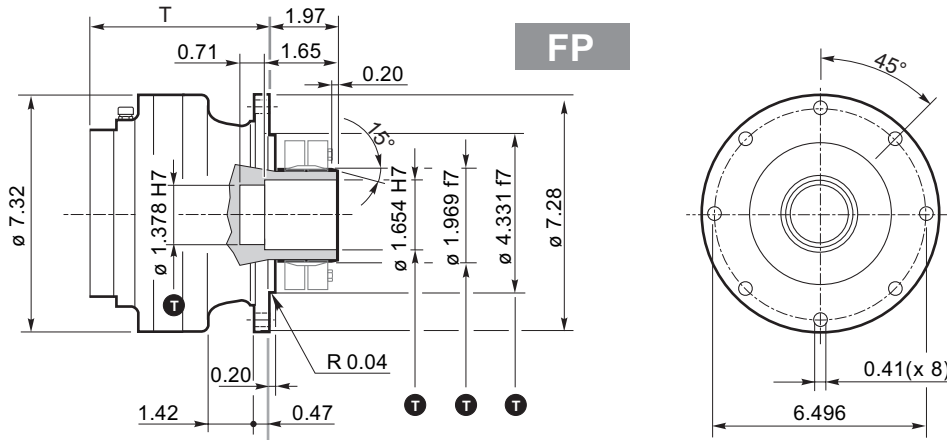
Solid input shaft



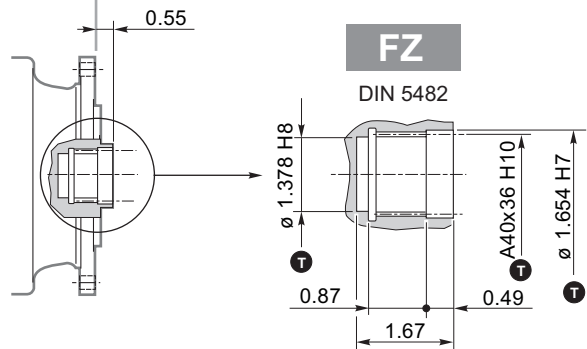
268



FP  $T_{2max} = 10,600 \text{ in.lbs}$



(mm)	inch	T
—	0.625 h6	$\begin{matrix} 0 \\ -0.00043 \end{matrix}$
(35)	1.378 f6	$\begin{matrix} -0.00098 \\ -0.00161 \end{matrix}$
(35)	1.378 H7	$\begin{matrix} +0.00098 \\ 0 \end{matrix}$
(42)	1.654 h6	$\begin{matrix} 0 \\ -0.00063 \end{matrix}$
(42)	1.654 H7	$\begin{matrix} +0.00098 \\ 0 \end{matrix}$
(50)	1.969 f7	$\begin{matrix} -0.00098 \\ -0.00197 \end{matrix}$
(110)	4.331 f7	$\begin{matrix} -0.00142 \\ -0.00280 \end{matrix}$
A40x36 H10		DIN 5482



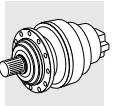
	300 L1	300 L2	300 L3	300 L4	300 R2	300 R3	300 R4
T	3.15	5.24	7.32	9.41	6.77	8.86	10.94
T1	—	—	—	—	4.80	4.80	4.80
Lbs	35.3	44.1	52.9	61.7	66.2	75.0	83.8

	3/V 00L3	3/A 00L2
T3		
	10.04	7.60
Lbs	66.2	94.8

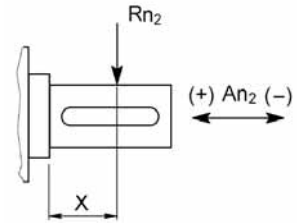
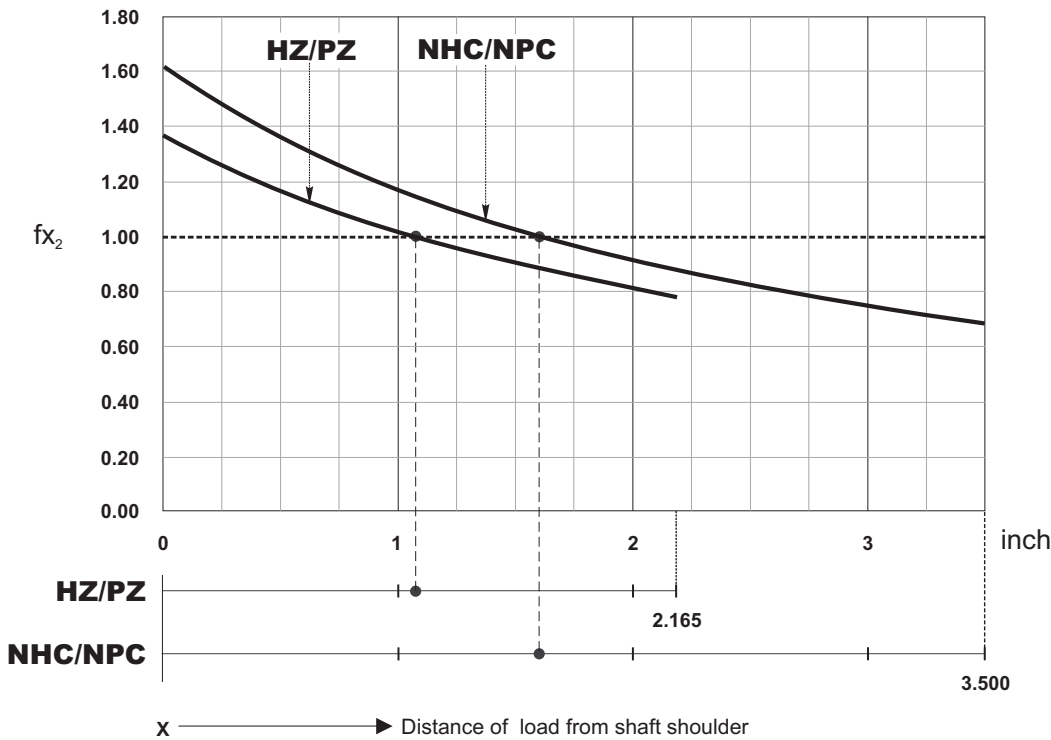
NEMA Input				T2					
	P1	E							
N56C	9.84	4.51	7.66	9.74	11.83	13.92	9.31	9.31	9.31
N140TC	9.84	4.51	7.66	9.74	11.83	13.92	9.31	9.31	9.31
N180TC	8.82	5.22	8.37	10.45	12.54	14.63	10.02	10.02	10.02
N210TC	8.82	5.22	8.37	10.45	12.54	14.63	10.02	10.02	10.02
N250TC	8.82	5.22	8.37	10.45	12.54	14.63	10.02	10.02	10.02
N280TC	11.81	6.28	9.43	11.52	13.60	15.69	11.08	11.08	11.08

	P1	T4	P1	T4
	6.54	3.48	6.50	9.15
	—	—	6.50	9.15
	—	—	9.00	9.90
	—	—	—	—
	—	—	—	—
	—	—	—	—



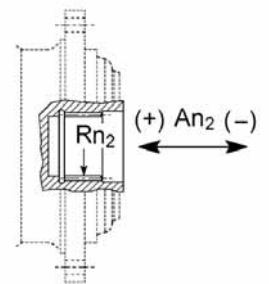


**Load application factor for calculation of admissible overhung load on output shaft**



$$R_{x2} = Rn_2 \cdot fx_2$$

$An_2 (\pm) = Rn_2 \cdot fa_2(\pm)$		
	<b>fa<sub>2</sub> (+)</b>	<b>fa<sub>2</sub> (-)</b>
HZ/PZ	0.74	0.59
NHC/NPC	0.86	0.69



$An_2 (\pm) = Rn_2 \cdot fa_2(\pm)$		
	<b>fa<sub>2</sub> (+)</b>	<b>fa<sub>2</sub> (-)</b>
FZ	1.04	1.04

**Permitted overhung load on input shaft**

(based on input speed  $n_1 = 1000$  rpm and theoretical lifetime  $L_h = 5000$  hours).  
For different operating conditions refer to Par. 12 (c<sub>2</sub>).

