High Pressure Pumps
TFS3, FFS3

Screw spindles

60 Hz

CC311B

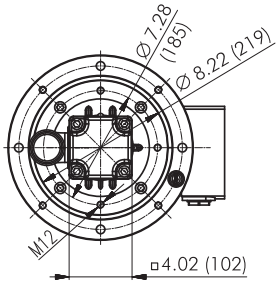
	2-pole motor rotation speed 3500 RPM						4-pole motor rotation speed 1750 RPM					
Pressure max.	Flow at viscosity		Power consumption of viscosity		Motor	Weight	Flow at viscosity		Power consumption of viscosity		Motor	Weight
	5 SSU	*90 SSU*	5 SSU	*90 SSU*	NEMA		5 SSU	*90 SSU*	5 SSU	*90 SSU*	NEMA	
Type / bar / *PSI*	GPM	*GPM*	HP	*HP*	HP	Lbs	GPM	*GPM*	HP	*HP*	HP	Lbs
TFS348/	**Q_{Th}[1] 20.4**		–	–	–	–	**Q_{Th}[1] 10.2**		–	–	–	–
10 / *145*	19.4	*20.0*	2.4	*2.5*	4	121	9.1	*9.7*	1.1	*1.1*	1.5	97
20 / *290*	19.0	*19.7*	4.2	*4.4*	5	137	8.7	*9.5*	2.0	*2.0*	3	104
30 / *435*	18.6	*19.5*	5.9	*6.2*	7.5	159	8.4	*9.3*	2.8	*3.0*	4	128
40 / *580*	18.2	*19.3*	7.6	*8.0*	10	190	8.0	*9.1*	3.8	*3.9*	5	128
50 / *725*	17.9	*19.2*	9.3	*9.8*	15	232	7.6	*8.9*	4.6	*4.8*	7.5	137
60 / *870*	17.5	*19.0*	11.0	*11.5*	15	232	7.3	*8.7*	5.5	*5.8*	7.5	205
70 / *1015*	17.2	*18.8*	12.7	*13.4*	15	232	7.0	*8.6*	6.3	*6.7*	7.5	205
80 / *1160*	16.9	*18.6*	14.5	*15.2*	20	251	6.7	*8.4*	7.2	*7.6*	10	205
90 / *1305*	16.6	*18.5*	16.2	*17.0*	20	251	6.3	*8.3*	8.0	*8.6*	10	205
100 / *1450*	16.4	*18.3*	18.0	*18.8*	20	251	6.0	*8.1*	9.0	*9.5*	10	205
110 / *1595*	15.9	*18.2*	19.7	*20.5*	25	273	-	*8.0*	-	*10.5*	15	205
120 / *1740*	15.4	*18.1*	21.3	*22.4*	25	273	-	*7.9*	-	*11.4*	15	249
130 / *1885*	15.0	*18.0*	23.1	*24.1*	25	273	-	*7.7*	-	*12.3*	15	249
140 / *2030*	14.5	*17.9*	24.8	*25.9*	30	351	-	*7.6*	-	*13.3*	15	351
150 / *2175*	14.1	*17.8*	26.6	*27.8*	30	351	-	*7.6*	-	*14.2*	15	249
TFS364/	**Q_{Th}[1] 27.3**		–	–	–	–	**Q_{Th}[1] 13.6**		–	–	–	–
10 / *145*	25.8	*26.6*	3.0	*3.2*	7.5	159	12.1	*13.0*	1.5	*1.5*	2	104
20 / *290*	25.3	*26.3*	5.2	*5.6*	7.5	159	11.7	*12.7*	2.5	*2.7*	3	128
30 / *435*	24.8	*26.1*	7.6	*8.0*	10	190	11.2	*12.4*	3.8	*3.9*	5	128
40 / *580*	24.4	*25.8*	9.9	*10.3*	15	232	10.8	*12.2*	4.8	*5.1*	7.5	137
50 / *725*	24.0	*25.6*	12.2	*12.7*	15	232	10.3	*12.0*	6.0	*6.3*	7.5	205
60 / *870*	23.5	*25.4*	14.5	*15.2*	20	251	9.9	*11.8*	7.2	*7.5*	10	205
70 / *1015*	23.1	*25.2*	16.8	*17.6*	20	251	9.5	*11.5*	8.3	*8.7*	10	205
80 / *1160*	22.7	*25.0*	19.2	*20.0*	25	273	9.1	*11.3*	9.5	*9.9*	15	205
90 / *1305*	22.4	*24.8*	21.5	*22.4*	25	273	8.7	*11.1*	10.6	*11.1*	15	205
100 / *1450*	22.0	*24.6*	23.7	*24.7*	30	351	8.2	*11.0*	11.8	*12.3*	15	249
110 / *1595*	21.4	*24.4*	26.0	*27.1*	30	351	-	*10.8*	-	*13.5*	15	249
120 / *1740*	20.8	*24.3*	28.4	*29.5*	30	351	-	*10.6*	-	*14.8*	15	249
130 / *1885*	20.2	*23.9*	30.7	*31.9*	40	454	–	–	–	–	–	–
140 / *2030*	19.6	*23.5*	33.0	*34.3*	40	454	–	–	–	–	–	–
150 / *2175*	19.1	*23.1*	35.3	*36.6*	40	454	–	–	–	–	–	–
TFS376/	**Q_{Th}[1] 32.4**		–	–	–	–	**Q_{Th}[1] 16.2**		–	–	–	–
10 / *145*	30.7	*31.6*	3.4	*3.8*	10	190	14.5	*15.4*	1.6	*1.7*	3	104
20 / *290*	30.1	*31.3*	6.2	*6.6*	10	190	13.9	*15.1*	3.0	*3.2*	4	128
30 / *435*	29.6	*31.0*	8.9	*9.5*	15	232	13.4	*14.8*	4.4	*4.7*	7.5	137
40 / *580*	29.1	*30.7*	11.7	*12.3*	15	232	12.9	*14.5*	5.8	*6.2*	7.5	205
50 / *725*	28.5	*30.4*	14.3	*15.2*	20	251	12.3	*14.2*	7.1	*7.6*	10	205
60 / *870*	28.0	*30.1*	17.2	*18.1*	20	251	11.8	*14.0*	8.4	*9.0*	10	205
70 / *1015*	27.5	*29.9*	19.8	*20.9*	25	273	11.3	*13.7*	9.8	*10.5*	15	205
80 / *1160*	27.0	*29.7*	22.5	*23.9*	30	351	10.8	*13.5*	11.3	*11.9*	15	249
90 / *1305*	26.5	*29.4*	25.3	*26.7*	30	351	10.3	*13.3*	12.6	*13.4*	15	249
100 / *1450*	26.0	*29.2*	28.0	*29.5*	40	454	9.8	*13.1*	13.9	*14.9*	20	249
110 / *1595*	25.2	*29.0*	30.8	*32.5*	40	454	-	*12.8*	-	*16.4*	20	287
120 / *1740*	24.5	*28.9*	33.5	*35.3*	40	454	-	*12.7*	-	*17.8*	20	287
130 / *1885*	23.7	*28.4*	36.3	*38.2*	40	454	–	–	–	–	–	–
140 / *2030*	23.0	*27.9*	39.0	*41.0*	50	501	–	–	–	–	–	–
150 / *2175*	22.2	*27.5*	41.7	*43.9*	50	501	–	–	–	–	–	–

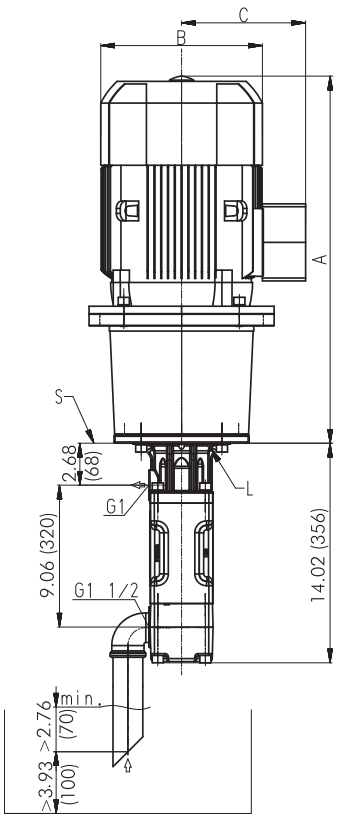
[1] Q_{Th}: Theoretical flow rate ; Viscosity > 90 SSU more power consumption.
Higher pressure for water soluble coolants (up to 2900 psi / 200 bar) upon request.

Characteristics and dimensions
TFS3, FFS3

60 Hz

CC311B

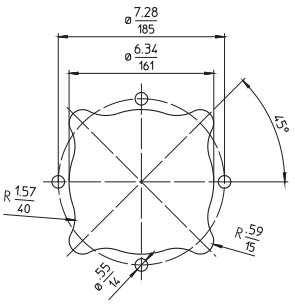




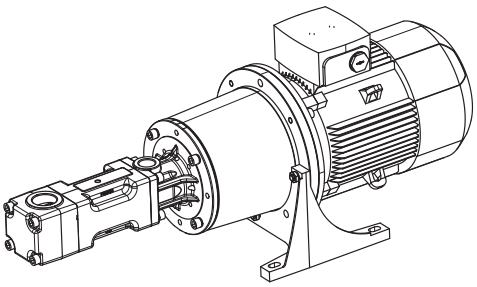
*) Dimensions for 4-pole standard motor upon request
L = Leakage hole
S = Mounting plate, please refer to the cut-out of mounting hole

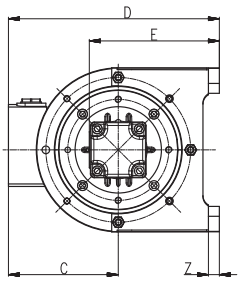
Mounting hole patterns

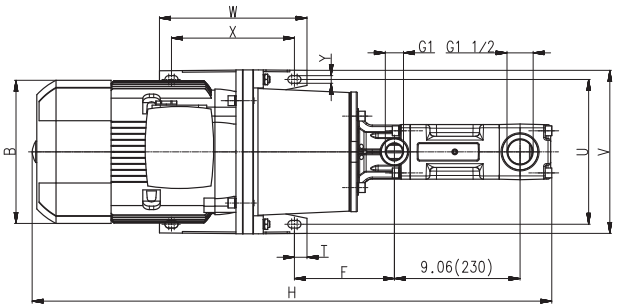
TFS3 / TFS4



Dimensions in Inches / mm
All corners must be deburred!
According to ISO 2768-m







Power 2-poles HP	Power 4-poles HP	A Inch	B Inch	C Inch	D Inch	E Inch	F Inch	H Inch	T Inch	U Inch	V Inch	W Inch	X Inch	Y Inch	Z Inch
–	1.5 / 2	18.74	7.01	4.96	9.37	6.50	6.57	33.35	0.59	7.09	8.27	3.54	2.36	0.43	0.47
4	3 / 4	22.36	7.80	6.54	12.64	8.19	7.32	36.38	0.89	8.46	9.84	9.06	7.28	0.55	0.59
5	5	21.69	8.74	6.97	13.07	8.19	7.32	35.71	0.89	8.46	9.84	9.06	7.28	0.55	0.59
7.5	–	23.43	10.31	7.95	15.24	9.37	7.20	37.44	0.89	10.43	11.81	10.63	8.86	0.55	0.71
10	7.5	25.39	10.31	7.95	15.24	9.37	7.20	39.41	0.89	10.43	11.81	10.63	8.86	0.55	0.71
–	10	25.75	10.31	7.95	15.24	9.37	7.20	39.76	0.89	10.43	11.81	10.63	8.86	0.55	0.71
15 / 20	15	30.08	12.36	9.33	18.58	11.34	8.74	44.09	0.79	11.81	13.78	12.01	10.43	0.71	0.71
25	20	32.44	12.36	9.33	18.58	11.34	8.74	46.46	0.79	11.81	13.78	12.01	10.43	0.71	0.71
30	–	32.44	14.02	11.26	20.51	11.34	8.74	46.46	0.79	11.81	13.78	12.01	10.43	0.71	0.71
40	–	34.68	15.59	12.40	22.64	12.32	8.35	48.70	0.98	13.78	15.75	13.78	11.81	0.71	0.79
50	–	35.67	15.59	12.40	22.64	12.32	8.35	49.68	0.98	13.78	15.75	13.78	11.81	0.71	0.79