VT67EDC or T67EDCS - 062 - B35 - 010 - 1 R 00 - A 1 - M1 - *

T67EDC Series-ISO 4 bolts 3019-2
Mounting flange 250 B4HW
T67EDCS Series - SAE E
Mounting flange J744c

P1 **P2** **P3**

Cam ring for "P1"

Volumetric displacement cm^3 /rev (in^3 /rev)

042 = 132.3 (8.07) 057 = 183.2 (11.18)
045 = 142.6 (8.70) 062 = 196.6 (12.00)
050 = 158.5 (9.67) 066 = 213.0 (13.00)
052 = 163.9 (10.00) 072 = 227.2 (13.86)
054 = 170.9 (10.43) 085 = 269.8 (16.40)

Cam ring for "P2"

Volumetric displacement cm^3 /rev (in^3 /rev)

B14 = 43.9 (2.68) B31 = 99.1 (6.05)
B17 = 55.0 (3.36) B35 = 113.4 (6.92)
B20 = 66.0 (4.03) B38 = 120.6 (7.36)
B22 = 70.3 (4.29) B42 = 137.5 (8.39)
B24 = 81.1 (4.95) 045 = 145.7 (8.89)
B28 = 89.9 (5.49) 050 = 158.0 (9.64)

Cam ring for "P3"

Volumetric displacement cm^3 /rev (in^3 /rev)

003 = 10.8 (0.66) 017 = 58.3 (3.56)
005 = 17.2 (1.05) 020 = 63.7 (3.89)
006 = 21.3 (1.30) 022 = 70.3 (4.29)
008 = 26.3 (1.61) 025 = 79.3 (4.84)
010 = 34.0 (2.08) 028 = 88.8 (5.42)
012 = 37.0(2.26) 031 = 100 (6.10)
014 = 46.0 (2.81)

Modifications

Mounting w/connection variables

4 bolts SAE flanges J518

P1=1-1/2" P2=1-1/4" S=4"			
Type	P3	UNC	Metric
T67EDC	1"		M0
T67EDC	3/4"		M1
T67EDCS	1"	00	M0
T67EDCS	3/4"	01	M1

Seal class

1 = S1 (for minreal oil)
4 = S4(for fire resistant fluids)
5 = S5(for mineral oil and fire resistant fluids)

Design letter

Porting combination (see page CI-1-4,5)

00 = Standard

Direction of rotation (view on the shaft)
R - Clockwise
L - Counter - clockwise

Type of Shaft T67EDC

1 - Keyed (G45N-ISO 3019-2)

Type of Shaft T67EDCS

2 - Keyed (SAE D&E)
3 - Splined (SAE D&E)

VP
TP

OPERATING CHARACTERISTICS - TYPICAL (24 cST) (Input power p (KW) for one cartridge only)

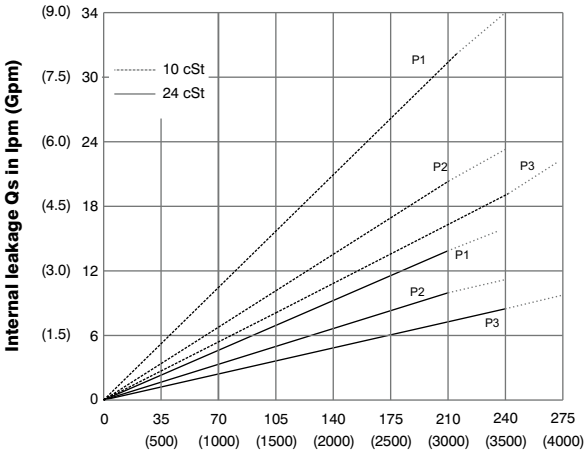
Pressure port	Series	Volumetric Displacement Vp		Flow q & n = 1800 rpm						Input power p & n = 1800 rpm					
				p = 0 bar (0 psi)		p = 140 bar (2000 psi)		p = 240 bar (3500 psi)		p = 7 bar (100 psi)		p = 140 bar (2000 psi)		p = 240 bar (3500 psi)	
		in^3 /rev	cm^3 /rev	gpm	lpm	gpm	lpm	gpm	lpm	hp	kw	hp	kw	hp	kw
P1	042	8.07	132.3	62.92	239.1	60.37	229.4	58.52	222.4	8.09	6.03	78.44	58.49	133.80	99.8
	045	8.70	142.5	67.72	257.3	65.17	247.6	63.32	240.6	8.37	6.24	84.04	62.67	143.60	107.1
	050	9.67	158.5	75.38	286.3	72.83	276.8	70.98	269.7	8.82	6.58	92.97	69.30	159.24	118.8
	052	10.00	163.9	78.37	297.8	75.82	288.1	73.97	281.1	8.99	6.70	96.47	71.94	165.36	123.4
	054	10.43	170.9	81.27	308.8	78.72	299.1	76.87	292.1	9.17	6.84	99.75	74.40	177.46	132.4
	057	11.18	183.2	87.12	331.1	84.57	321.4	82.72	314.3	9.51	7.09	106.57	79.5	189.84	141.6
	062	12.00	196.7	93.54	355.5	90.99	345.8	89.14	338.7	9.88	7.37	114.17	85.2	196.34	146.5
	066	13.00	213.0	101.44	385.5	98.89	375.8	97.04	368.8	10.34	7.71	123.38	92.01	212.46	158.5
	072	13.86	227.1	108.00	410.4	105.45	400.7	103.60	393.7	10.72	8.00	131.04	97.8	225.86	168.5
	085 [1]	16.40	268.7	127.79	485.6	126.13	479.3	--	--	11.88	8.86	101.66	75.8	--	--
P2				p = 0 bar (0 psi)		p = 140 bar (2000 psi)		p = 250 bar (3630 psi)		p = 7 bar (100 psi)		p = 140 bar (2000 psi)		p = 250 bar (3630 psi)	
	B14	2.68	43.93	20.92	79.50	19.18	72.88	17.81	67.7	3.46	2.6	27.77	20.7	47.03	35.1
	B17	3.36	55.07	26.16	99.41	24.41	92.76	23.04	87.6	3.77	2.8	33.88	25.3	57.71	43.1
	B20	4.03	66.05	31.39	119.28	29.64	112.63	28.27	107.4	4.07	3.0	39.98	29.8	68.39	51.0
	B22	4.29	70.31	33.43	127.03	31.69	120.42	30.32	115.2	4.19	3.1	42.37	31.6	72.57	54.1
	B24	4.95	81.13	38.50	146.30	36.82	139.92	35.45	134.7	4.49	3.3	48.36	36.1	83.06	62.0
	B28	5.49	89.98	42.80	162.64	41.06	156.03	39.69	150.8	4.74	3.5	53.3	39.8	91.7	68.4
	B31	6.05	99.16	47.18	179.28	45.43	172.63	44.06	167.4	4.99	3.7	58.41	43.6	100.63	75.1
	B35	6.92	113.42	53.93	204.93	52.18	198.28	50.81	193.1	5.39	4.0	66.29	49.5	114.42	85.4
	B38	7.36	120.63	57.30	217.74	55.61	211.32	54.24	206.1	5.59	4.2	70.28	52.4	121.42	90.6
	B42 [2]	8.39	137.51	65.30	248.14	63.35	240.73	62.28	236.7	6.05	4.5	79.66	59.4	137.83	102.8
	045 [2]	8.89	145.71	69.20	262.96	67.11	255.02	65.31	248.2	6.74	5.0	83.75	62.5	145.79	108.8
	050 [2, 3]	9.64	158	75.14	285.53	72.96	277.2	71.78	272.8	7.08	5.3	90.58	67.6	134.5	100.3
P3				p = 0 bar (0 psi)		p = 140 bar (2000 psi)		p = 275 bar (4000 psi)		p = 7 bar (100 psi)		p = 140 bar (2000 psi)		p = 275 bar (4000 psi)	
	003	0.66	10.82	5.14	19.53	3.85	14.6	--	--	2.11	1.6	8.45	6.3	--	--
	005	1.05	17.21	8.18	31.08	6.89	26.2	5.68	21.6	2.29	1.7	12.0	9.0	19.81	14.8
	006	1.30	21.31	10.13	38.49	8.84	33.6	7.63	29.0	2.4	1.8	14.28	10.7	23.79	17.7
	008	1.61	26.39	12.55	47.69	11.26	42.8	10.05	38.2	2.54	1.9	17.11	12.8	28.75	21.4
	010	2.08	34.09	16.22	61.64	14.93	56.7	13.71	52.1	2.76	2.1	21.38	15.9	36.22	27.0
	012	2.26	37.04	17.64	67.03	16.35	62.1	15.14	57.5	2.84	2.1	23.05	17.2	39.14	29.2
	014	2.81	46.06	21.88	83.14	20.59	78.2	19.37	73.6	3.09	2.3	27.99	20.9	47.78	35.6
	017	3.56	58.35	27.73	105.37	26.44	100.5	25.22	95.8	3.43	2.6	34.81	26.0	59.73	44.6
	020	3.89	63.76	30.34	115.29	29.05	110.4	27.84	105.8	3.58	2.7	37.86	28.2	65.07	48.5
	022 [5]	4.29	70.31	33.43	127.03	32.14	122.1	30.93	117.5	3.76	2.8	41.47	30.9	71.38	53.2
	025 [4, 6]	4.84	79.33	37.71	143.30	36.42	138.4	35.21	133.8	4.01	3.0	46.46	34.7	80.12	59.8
	028 [4, 7]	5.42	88.83	42.23	160.47	40.94	155.6	40.32	153.2	4.27	3.2	51.74	38.6	76.73	57.2
	031 [4, 7]	6.10	99.98	47.56	180.73	46.27	175.8	45.65	173.5	4.58	3.4	57.95	43.2	86.06	64.2

-- We do not recommend to use this 003 at 275 bar (4000 psi) and 1500 rpm since internal leakage is over 50 of theoritical flow.

1) 085 = 90 bar (1300 psi) max. int 2) 042-045-050 = 2200 RPM max. 3) 050=210 bar (3000 psi) max. int,
4) 025-028-031 = 2500 R.P.M. max. 5) 022= 275 bar max. int, 6) 025 = 240 bar max. int, 7) 028-031 = 210 bar (3000 psi) max. int.

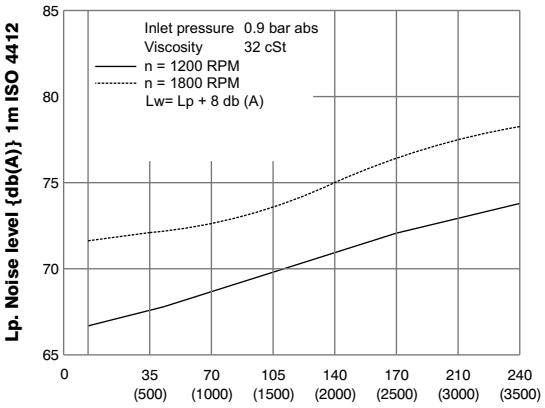
Note: Product details are liable to change without any notice

INTERNAL LEAKAGE (TYPICAL)



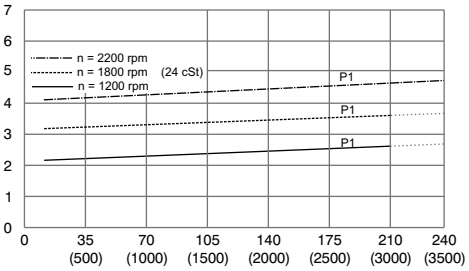
Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is more than 50 of theoretical flow.
Total leakage is the sum of each section loss at its operating conditions.

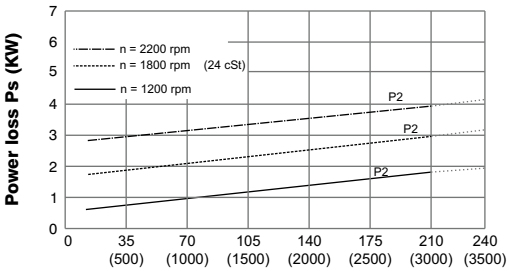
NOISE LEVEL (TYPICAL)
VT67EDCS- 062-B35-022

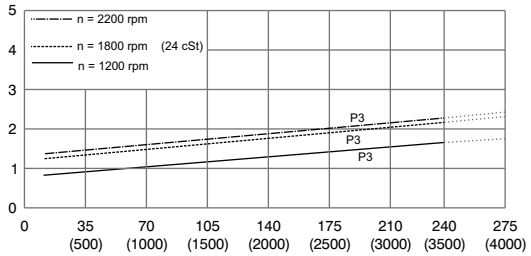


Triple pump noise level is given with each section discharging at the pressure noted on the curve.

HYDROMECHANICAL POWER LOSS (TYPICAL)



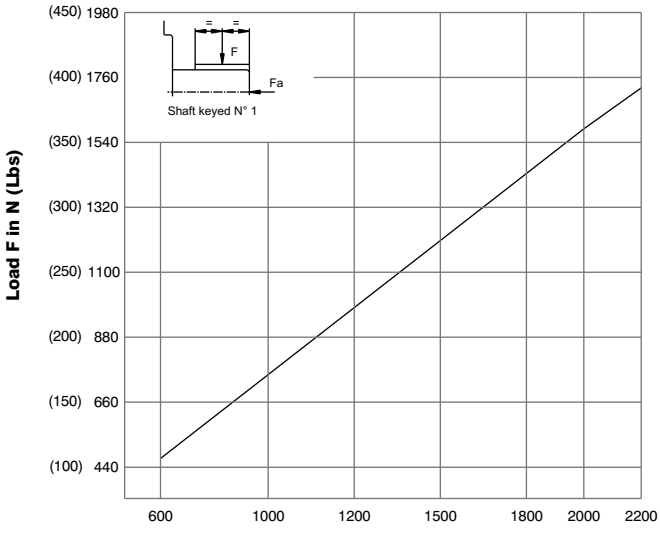




Pressure in bar (psi)

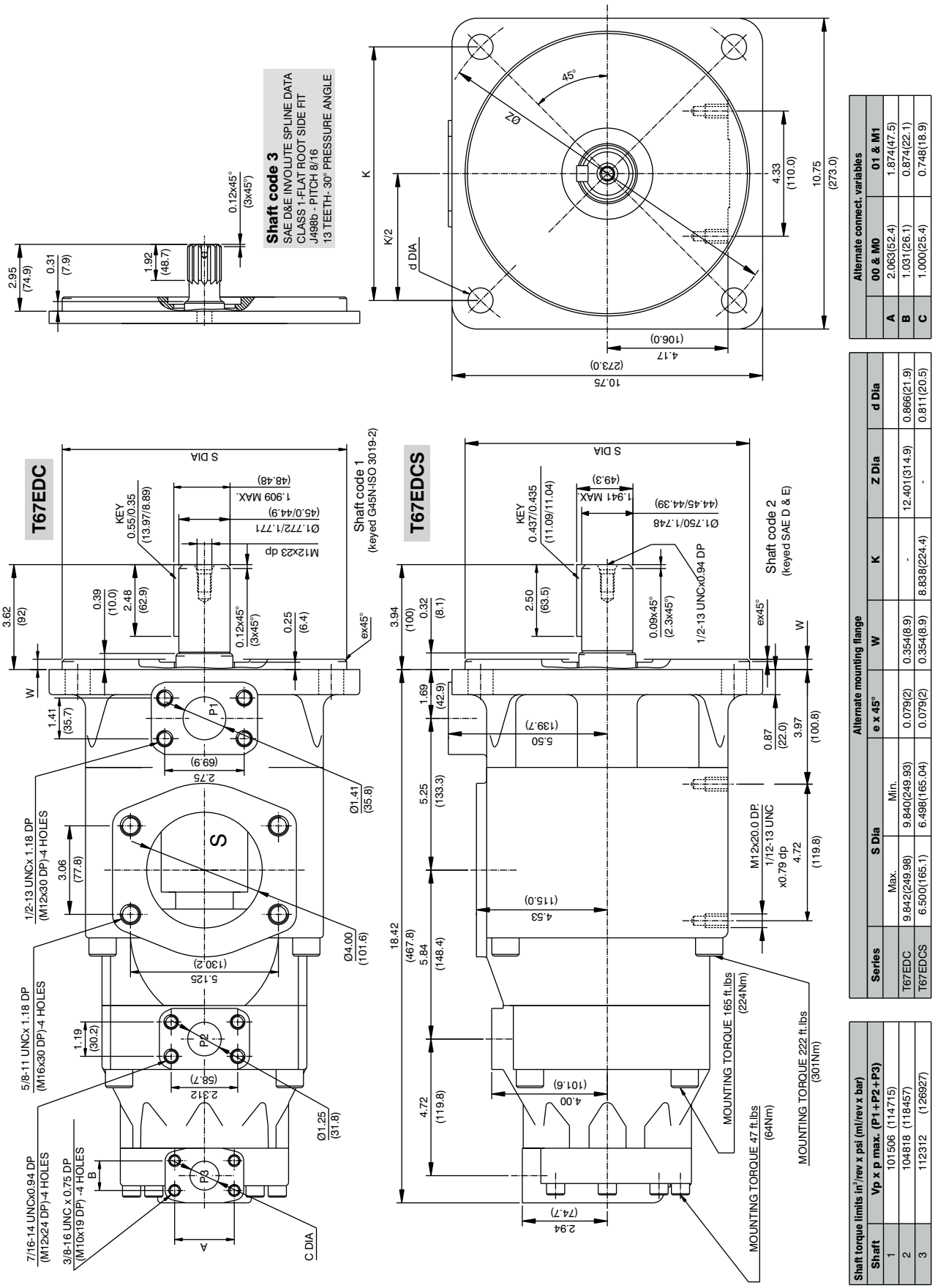
Total hydromechanical power loss is the sum of each section at its operating conditions

PERMISSIBLE RADIAL LOAD



Maximum permissible axial load Fa=2000 N (449 Lbs)

VP
TP



Alternate connect. variables		
	00 & M0	01 & M1
A	2.063(52.4)	1.874(47.5)
B	1.031(26.1)	0.874(22.1)
C	1.000(25.4)	0.748(18.9)

Alternate mounting flange								
Series	S Dia		e x 45°	W	K	Z Dia	d Dia
	Max.	Min.					
T67EDC	9.842(249.98)	9.840(249.93)	0.079(2)	0.354(8.9)	-	12.401(314.9)	0.866(21.9)
T67EDCS	6.500(165.1)	6.498(165.04)	0.079(2)	0.354(8.9)	8.838(224.4)	-	0.811(20.5)

Shaft torque limits in³/rev x psi (ml/rev x bar)		
Shaft	Vp x p max. (P1+P2+P3)	
1	101506	(114715)
2	104818	(118457)
3	112312	(126927)

Note: Product details are liable to change without any notice