

ENGINEERING TOMORROW

Datasheets

Danfoss Reciprocating compressors **MT / MTZ / NTZ**



FRCC.UD.171020.092537

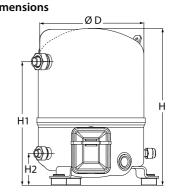
Datasheet, technical data

Maneurop reciprocating compressor, MT036-4

Danfoss

General Characteristics

Model number (on compressor nameplate)		MT36JG4FVE		
Code number for Singlepack*	MT36-4VI			
Code number for Industrial pack**		MT36-4VM		
Drawing number		8501025f		
Suction and discharge connections		Rotolock		
Suction connection		1-1/4 " Rotolock		
Discharge connection		1 " Rotolock		
Suction connection with supplied sleeve		5/8 " ODF		
Discharge connection with supplied sleeve		1/2 " ODF		
Oil sight glass		Threaded		
Oil equalisation connection		3/8" flare SAE		
Oil drain connection		None		
LP gauge port		Schrader		
IPR valve		None		
Cylinders	1	I		
Swept volume	60.47 cm3/rev			
Displacement @ Nominal speed	10.5 m3/h @ 2900 rpm - 12.7 m3/h @ 3500 rpm			
Net weight	25 kg			
Oil charge	0.95 litre, Mineral - 160P			
Maximum system test pressure Low Side / High side	25 bar(g) / 30 bar(g)			
Maximum differential test pressure	30	bar		
Maximum number of starts per hour	1	2		
Refrigerant charge limit	2.5	kg		
Approved refrigerants	R22, R417	7A-160PZ		



D=224 mm H=356 mm H1=263 mm H2=68 mm H3=- mm

Electrical Characteristics

Nominal voltage	380-400V/3/50Hz - 460V/3/60Hz
Voltage range	340-440 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance (between phases) +/- 7% at 25°C	5.8 Ω
Maximum Continuous Current (MCC)	9 A
Locked Rotor Amps (LRA)	38 A
Motor protection	Internal overload protector

Recommended Installation torques

Oil sight glass	50 Nm
Power connections / Earth connection	2 Nm / 2 Nm
Mounting bolts	15 Nm

Parts shipped with compressor

Mounting kit with grommets, bolts, nuts, sleeves and washers

Suction & Discharge solder sleeves, rotolock nuts and gaskets (shipped with rotolock version only) Initial oil charge

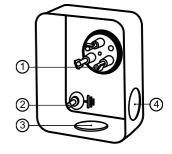
Installation instructions

Approvals : CE certified, UL certified (file SA6873), CCC certified

*Singlepack: Compressor in cardboard box

**Industrial pack: 12 Unboxed compressors on pallet (order per multiples of 12)

Terminal box



IP55 (with cable gland)

- 1: Spade connectors 1/4"
 - Earth M4-12

2:

- 3: Knock-out Ø 21 mm (0.83")
- 4: Hole Ø 21 mm (0.83")

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Datasheet, accessories and spare parts

Maneurop reciprocating compressor, MT036-4

Rotolock accessories, suction side	Code no.	
Solder sleeve, P09 (1-1/4" Rotolock, 5/8" ODF)	8153011	
Angle adapter, C09 (1-1/4" Rotolock, 5/8" ODF)	8168009	
Rotolock valve, V09 (1-1/4" Rotolock, 5/8" ODF)	8168033	Gaskets, sleeves and nuts
Gasket, 1-1/4"	8156131	
Rotolock accessories, discharge side	Code no.	
Solder sleeve, P06 (1" Rotolock, 1/2" ODF)	8153007	
Angle adapter, C06 (1" Rotolock, 1/2" ODF)	8168007	
Rotolock valve, V06 (1" Rotolock, 1/2" ODF)	8168031	
Gasket, 1"	8156130	1 2 3
Rotolock accessories, sets	Code no.	1: Gasket
Angle adapter set, C09 (1-1/4"~5/8"), C06 (1"~1/2")	7703012	2: Solder sleeve
Valve set, V09 (1-1/4"~5/8"), V06 (1"~1/2")	7703005	3: Rotolock nut
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009	
Oil / lubricants	Code no.	
Mineral oil, 160P, 2 litre can	7754001	
Mineral oil, 160P, 5 litre can	7754002	
Crankcase heaters	Code no.	Mounting kit
PTC heater 27W,CE mark, UL	120Z0459	
Belt type crankcase heater, 54 W, 230 V, CE mark, UL	7773106	1
Belt type crankcase heater, 54 W, 400 V, UL	7773013	
Miscellaneous accessories	Code no.	
Electronic soft start kit, MCI 15 C	7705006	
Acoustic hood for 1 cylinder compressor	120Z0575	
Oil equalisation nut	8153127	5
· · ·		6
Spare parts	Code no.	
Mounting kit for 1 and 2 cylinder compressor, including 3 grommets, 3 bolts	8156001	
Oil sight glass with gaskets (black & white)	8156019	1: Bolt (3x)
Gasket for oil sight glass (black chloroprene)	8156145	2: Lock washer (3x)
Service kit for terminal box 80 x 96 mm, including 1 cover, 1 clamp	8156134	3: Flat washer (3x)
		4: Sleeve (3x)
		5: Grommet (3x)

5: Grommet (3x) 6: Nut (3x)

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Maneurop reciprocating compressor. MT036-4

Performance data at 50 Hz, EN 12900 rating conditions

Cond. temp. in		1		-	ting temperatu		1		
°C (tc)	-25	-20	-15	-10	-5	0	5	10	15
Cooling capacit	y in W								-
30	2 741	3 691	4 782	6 027	7 436	9 021	10 794	12 767	14 950
35	2 435	3 362	4 424	5 632	6 999	8 535	10 252	12 161	14 275
40	2 130	3 029	4 057	5 225	6 544	8 026	9 683	11 525	13 565
45	1 825	2 693	3 682	4 805	6 073	7 497	9 088	10 859	12 820
50	-	2 354	3 301	4 374	5 586	6 947	8 469	10 164	12 042
55	-	-	2 914	3 934	5 085	6 379	7 827	9 441	11 231
60	_	_	-	3 485	4 571	5 793	7 163	8 691	10 389
65	_	_	-	-	4 045	5 191	6 477	7 914	9 515
00					1010	0 101	0 111	7011	0010
Power input in V	N								
30	1 524	1 713	1 894	2 061	2 208	2 327	2 414	2 461	2 462
35	1 580	1 779	1 973	2 156	2 208	2 465	2 4 14	2 401	2 402
40	1 631	1 842	2 051	2 253	2 441	2 607	2 747	2 854	2 921
45	1 676	1 902	2 128	2 351	2 562	2 756	2 925	3 065	3 168
50	-	1 957	2 204	2 449	2 686	2 908	3 110	3 285	3 426
55	-	-	2 276	2 546	2 811	3 065	3 301	3 513	3 695
60	-	-	-	2 643	2 938	3 225	3 497	3 749	3 973
65	-	-	-	-	3 065	3 387	3 698	3 991	4 261
Current consun	ption in A						•		
30	3.35	3.54	3.74	3.94	4.12	4.27	4.38	4.44	4.44
35	3.41	3.61	3.83	4.05	4.26	4.45	4.60	4.71	4.75
40	3.47	3.68	3.92	4.17	4.41	4.64	4.84	4.99	5.10
45	3.51	3.75	4.02	4.30	4.58	4.85	5.09	5.30	5.47
50	-	3.81	4.11	4.43	4.75	5.07	5.37	5.64	5.86
55	-	-	4.20	4.56	4.93	5.30	5.66	5.99	6.29
60	-	-	-	4.70	5.12	5.54	5.96	6.36	6.73
65	_	-	-	-	5.31	5.80	6.29	6.76	7.21
				1					
Mass flow in kg	/h								
30	60	79	102	126	154	184	218	255	296
35	55	75	98	123	150	181	215	252	293
40	50	73	93	119	136	177	213	249	290
	45	66			140		207	249	290
45			89	114		173			
50	-	60	83	109	137	168	202	239	280
55	-	-	77	103	131	161	195	233	273
60	-	-	-	96	124	155	188	225	266
65	-	-	-	-	116	147	180	217	257
· · ·	erformance (C.C	,			1		T		
30	1.80	2.15	2.53	2.92	3.37	3.88	4.47	5.19	6.07
35	1.54	1.89	2.24	2.61	3.01	3.46	3.98	4.58	5.32
40	1.31	1.64	1.98	2.32	2.68	3.08	3.52	4.04	4.64
45	1.09	1.42	1.73	2.04	2.37	2.72	3.11	3.54	4.05
50	-	1.20	1.50	1.79	2.08	2.39	2.72	3.09	3.51
55	-	-	1.28	1.55	1.81	2.08	2.37	2.69	3.04
60	-	-	-	1.32	1.56	1.80	2.05	2.32	2.61
65	-	-	-	-	1.32	1.53	1.75	1.98	2.23
		•		•	•			•	
	mance at to = 5	°C, tc = 50 °C				Pressure switch	settings		
Nominal perfori		8 469	W			Maximum HP swit	-	27.9	bar(g)
		3 110	W			Minimum LP swite	•	0.7	bar(g)
Cooling capacity Power input		5.37	A			LP pump down se	etting	0.9	bar(g)
Cooling capacity Power input Current consum	otion								
Cooling capacity Power input Current consump Mass flow	otion	202	kg/h						
Cooling capacity Power input Current consump Mass flow	otion		kg/h			Sound power dat			100 (1)
Cooling capacity Power input Current consump Mass flow C.O.P.	emperature at de	202 2.72	kg/h			Sound power dat Sound power leve With accoustic ho	el	67 61	dB(A) dB(A)

Rating conditions : Superheat = 10 K , Subcooling = 0 K

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R22

Maneurop reciprocating compressor. MT036-4

Performance data at 50 Hz, ARI rating conditions

Performanc	e data at 5	0 Hz, ARI ratir	ng conditio	ns					R22
Cond. temp. in				Evapor	ating temperatu	re in °C (to)			
°C (tc)	-25	-20	-15	-10	-5	0	5	10	15
Cooling capacity	-		/						(
30	2 911	3 917	5 071	6 386	7 873	9 545	11 413	13 490	15 787
35	2 596	3 580	4 707	5 988	7 435	9 059	10 874	12 890	15 120
40	2 279	3 239	4 333	5 576	6 977	8 550	10 307	12 258	14 417
45	1 962	2 892	3 950	5 150	6 502	8 019	9 713	11 596	13 679
50	-	2 541	3 559	4 711	6 010	7 467	9 094	10 903	12 906
55	-	-	3 161	4 262	5 502	6 894	8 450	10 182	12 100
60	-	-	-	3 801	4 979	6 302	7 783	9 432	11 262
65	-	-	-	-	4 442	5 692	7 092	8 655	10 392
Power input in V	v								
30	1 524	1 713	1 894	2 061	2 208	2 327	2 414	2 461	2 462
35	1 580	1 779	1 973	2 156	2 322	2 465	2 577	2 652	2 685
40	1 631	1 842	2 051	2 253	2 441	2 607	2 747	2 854	2 921
45	1 676	1 902	2 128	2 351	2 562	2 756	2 925	3 065	3 168
50	-	1 957	2 204	2 449	2 686	2 908	3 110	3 285	3 426
55	-	-	2 276	2 546	2 811	3 065	3 301	3 513	3 695
60	-	-	-	2 643	2 938	3 225	3 497	3 749	3 973
65	-	-	-	-	3 065	3 387	3 698	3 991	4 261
Current consum	ntion in A								
30	3.35	3.54	3.74	3.94	4.12	4.27	4.38	4.44	4.44
35	3.41	3.61	3.83	4.05	4.12	4.45	4.60	4.71	4.75
40	3.47	3.68	3.92	4.17	4.41	4.64	4.84	4.99	5.10
40	3.51	3.75	4.02	4.17	4.58	4.85	5.09	5.30	5.47
45 50	-							5.64	
50 55	-	3.81	4.11	4.43 4.56	4.75	5.07 5.30	5.37 5.66	5.99	5.86 6.29
	-	-							
60 65	-	-	-	4.70	5.12 5.31	5.54 5.80	5.96 6.29	6.36 6.76	6.73 7.21
05	-	-	-	-	5.51	5.80	0.29	0.70	1.21
Mass flow in kg/	'n				1		r	-	
30	59	79	101	126	153	183	217	254	294
35	55	75	97	122	150	180	214	251	292
40	50	70	93	118	146	176	210	247	288
45	45	65	88	113	141	172	206	243	283
50	-	60	83	108	136	167	200	238	278
55	-	-	77	102	130	161	194	231	272
60	-	-	-	95	123	154	187	224	264
65	-	-	-	-	116	146	179	216	256
Coefficient of pe	erformance (C.)	O.P.)							
30	1.91	2.29	2.68	3.10	3.57	4.10	4.73	5.48	6.41
35	1.64	2.01	2.39	2.78	3.20	3.68	4.22	4.86	5.63
40	1.40	1.76	2.00	2.47	2.86	3.28	3.75	4.30	4.94
45	1.17	1.52	1.86	2.19	2.54	2.91	3.32	3.78	4.32
43 50	-	1.30	1.62	1.92	2.24	2.57	2.92	3.32	3.77
55	-	-	1.39	1.67	1.96	2.25	2.52	2.90	3.27
60	-	-	-	1.44	1.90	1.95	2.30	2.52	2.83
65	-	-	-	-	1.09	1.95	1.92	2.52	2.83
		0.00 ft =				Dura	44		
		<u>.2 °C, tc = 54.4 °C</u>	10/			Pressure switch		07.0	h = =(=)
Cooling capacity Power input		9 272 3 373	W			Maximum HP swite Minimum LP swite	•	27.9 0.7	bar(g) bar(g)
Current consump	ition	5.77	A			LP pump down se	•	0.7	bar(g) bar(g)
Vass flow		211	kg/h					0.0	201(9)
C.O.P.		2.75				Sound power da	ta		
_						Sound power leve		67	dB(A)
 Evanorating te 						With accoustic ho		61	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

With accoustic hood

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61

dB(A)



Maneurop reciprocating compressor. MT036-4

Performance data at 60 Hz, EN 12900 rating conditions

Cond. temp. in				Evapora	ting temperatur	e in °C (to)			
°C (tc)	-25	-20	-15	-10	-5	0	5	10	15
Cooling capacity	in W								
30	3 289	4 429	5 738	7 232	8 923	10 825	12 953	15 320	17 940
35	2 923	4 035	5 309	6 759	8 398	10 242	12 302	14 593	17 130
40	2 556	3 635	4 868	6 270	7 853	9 631	11 619	13 830	16 278
45	2 190	3 231	4 419	5 766	7 287	8 996	10 906	13 031	15 384
50	-	2 825	3 961	5 249	6 703	8 337	10 163	12 197	14 450
55	-	-	3 497	4 721	6 102	7 655	9 393	11 329	13 477
60	-	-	-	4 182	5 485	6 952	8 595	10 429	12 466
65	-	-	-	-	4 854	6 229	7 772	9 497	11 418
ł		1				ł		1	
Power input in W									
30	1 829	2 055	2 273	2 473	2 649	2 793	2 897	2 953	2 954
35	1 896	2 134	2 367	2 587	2 787	2 957	3 092	3 183	3 222
40	1 957	2 210	2 462	2 704	2 929	3 129	3 297	3 425	3 505
45	2 012	2 282	2 554	2 821	3 074	3 307	3 511	3 678	3 802
50	-	2 349	2 644	2 938	3 223	3 490	3 732	3 942	4 112
55	-	-	2 732	3 055	3 373	3 678	3 961	4 216	4 434
60	-	-	-	3 171	3 525	3 870	4 197	4 499	4 768
65	-	_	-	-	3 678	4 064	4 438	4 790	5 113
		1							
Current consump	otion in A								
30	3.35	3.54	3.74	3.94	4.12	4.27	4.38	4.44	4.44
35	3.41	3.61	3.83	4.05	4.26	4.45	4.60	4.71	4.75
40	3.47	3.68	3.92	4.17	4.41	4.64	4.84	4.99	5.10
45	3.51	3.75	4.02	4.30	4.58	4.85	5.09	5.30	5.47
50	-	3.81	4.11	4.43	4.75	5.07	5.37	5.64	5.86
55	-	-	4.20	4.56	4.93	5.30	5.66	5.99	6.29
60	-	-	-	4.70	5.12	5.54	5.96	6.36	6.73
65	-	-	_	-	5.31	5.80	6.29	6.76	7.21
00					0.01	0.00	0.20	0.10	7.21
Mass flow in kg/h	1								
30	72	96	122	152	185	222	262	307	356
35	66	90	117	147	181	218	258	303	352
40	60	85	112	142	176	213	254	298	348
45	54	79	106	137	170	207	248	293	342
50	-	72	100	130	164	201	242	287	336
55	-	-	93	123	157	194	234	279	328
60	-		-	115	137	186	234	279	319
65	-	-	-	115	149	176	220	260	309
05	-	-	-	-	139	170	210	200	209
Coefficient of per	formance (C.C).P.)							
30	1.80	2.15	2.53	2.92	3.37	3.88	4.47	5.19	6.07
35	1.60	1.89	2.55	2.92	3.01	3.46	3.98	4.58	5.32
40				2.01					
	1.31	1.64	1.98		2.68	3.08	3.52	4.04	4.64
45	1.09	1.42	1.73	2.04	2.37	2.72	3.11	3.54	4.05
50	-	1.20	1.50	1.79	2.08	2.39	2.72	3.09	3.51
55	-	-	1.28	1.55	1.81	2.08	2.37	2.69	3.04
60	-	-	-	1.32	1.56	1.80	2.05	2.32	2.61
65	-	-	-	-	1.32	1.53	1.75	1.98	2.23
lominal norfer		C to - 50 °C				Brocours cuitel	ottinco		
lominal perform Cooling capacity	ance at to = 5 `	-	W	_		Pressure switch s Maximum HP swite	-	27.9	har(a)
Power input		10 163 3 732	W			Minimum LP switc	•	27.9 0.7	bar(g) bar(g)
Current consumpti	ion	5.37	A			LP pump down set	•	0.9	bar(g)
		242	kg/h				Č.		- \0/
Aass flow				1		0	•		
Mass flow C.O.P.		2.72				Sound power dat	a		
						Sound power dat Sound power level With accoustic hoo	l	70 64	dB(A) dB(A)

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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R22

Maneurop reciprocating compressor. MT036-4

Performanc	e data at 6	0 Hz, ARI rati	ng conditio	ns					R22
Cond. temp. in				Evapora	ating temperatur	re in °C (to)			
°C (tc)	-25	-20	-15	-10	-5	0	5	10	15
0									
Cooling capacity 30	3 493	4 700	6 085	7 663	9 447	11 454	13 696	16 187	18 944
35	3 115	4 297	5 649	7 185	8 922	10 871	13 090	15 468	18 144
40	2 735	3 886	5 200	6 691	8 373	10 261	12 368	14 710	17 301
45	2 355	3 470	4 740	6 180	7 803	9 623	11 656	13 915	16 415
50	-	3 049	4 271	5 654	7 212	8 960	10 913	13 084	15 488
55	-	-	3 793	5 114	6 603	8 273	10 140	12 218	14 521
60	-	-	-	4 561	5 975	7 563	9 339	11 318	13 514
65	-	-	-	-	5 331	6 831	8 511	10 386	12 471
Power input in W	ı								
30	1 829	2 055	2 273	2 473	2 649	2 793	2 897	2 953	2 954
35	1 896	2 134	2 367	2 587	2 787	2 957	3 092	3 183	3 222
40	1 957	2 210	2 462	2 704	2 929	3 129	3 297	3 425	3 505
45	2 012	2 282	2 554	2 821	3 074	3 307	3 511	3 678	3 802
50	-	2 349	2 644	2 938	3 223	3 490	3 732	3 942	4 112
55	-	-	2 732	3 055	3 373	3 678	3 961	4 216	4 434
60	-	-	-	3 171	3 525	3 870	4 197	4 499	4 768
65	-	-	-	-	3 678	4 064	4 438	4 790	5 113
Current consum	ption in A								
30	3.35	3.54	3.74	3.94	4.12	4.27	4.38	4.44	4.44
35	3.41	3.61	3.83	4.05	4.26	4.45	4.60	4.71	4.75
40	3.47	3.68	3.92	4.17	4.41	4.64	4.84	4.99	5.10
45	3.51	3.75	4.02	4.30	4.58	4.85	5.09	5.30	5.47
50	-	3.81	4.11	4.43	4.75	5.07	5.37	5.64	5.86
55	-	-	4.20	4.56	4.93	5.30	5.66	5.99	6.29
60	-	-	-	4.70	5.12	5.54	5.96	6.36	6.73
65	-	-	-	-	5.31	5.80	6.29	6.76	7.21
Mass flow in kg/	h								
30	71	95	121	151	184	220	261	305	354
35	66	90	117	147	180	216	257	301	350
40	60	84	111	141	175	212	252	297	346
45	54	78	106	136	169	206	247	291	340
50	-	72	99	130	163	200	241	285	334
55	-	-	92	122	156	193	233	278	326
60	-	-	-	115	148	185	225	269	317
65	-	-	-	-	139	175	215	259	307
Coefficient of pe	•							1	
30	1.91	2.29	2.68	3.10	3.57	4.10	4.73	5.48	6.41
35	1.64	2.01	2.39	2.78	3.20	3.68	4.22	4.86	5.63
40	1.40	1.76	2.11	2.47	2.86	3.28	3.75	4.30	4.94
45	1.17	1.52	1.86	2.19	2.54	2.91	3.32	3.78	4.32
50	-	1.30	1.62	1.92	2.24	2.57	2.92	3.32	3.77
55	-	-	1.39	1.67	1.96	2.25	2.56	2.90	3.27
60 65	-	-	-	1.44	1.69 1.45	1.95	2.23 1.92	2.52 2.17	2.83
60	-		-		1.45	1.68	1.92	2.17	2.44
	nance at to = 7.	2 °C, tc = 54.4 °C		_		Pressure switch	-		
Cooling capacity		11 127				Maximum HP swi	•	27.9	bar(g)
Power input Current consumption	tion	4 047 5.77	W A			Minimum LP swite LP pump down se	•	0.7 0.9	bar(g) bar(g)
Mass flow		253	kg/h					0.0	Sur(g)
C.O.P.		2.75	-			Sound power da			
						Sound power leve		70	dB(A)

to: Evaporating temperature at	dew point
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tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

Sound power level

With accoustic hood

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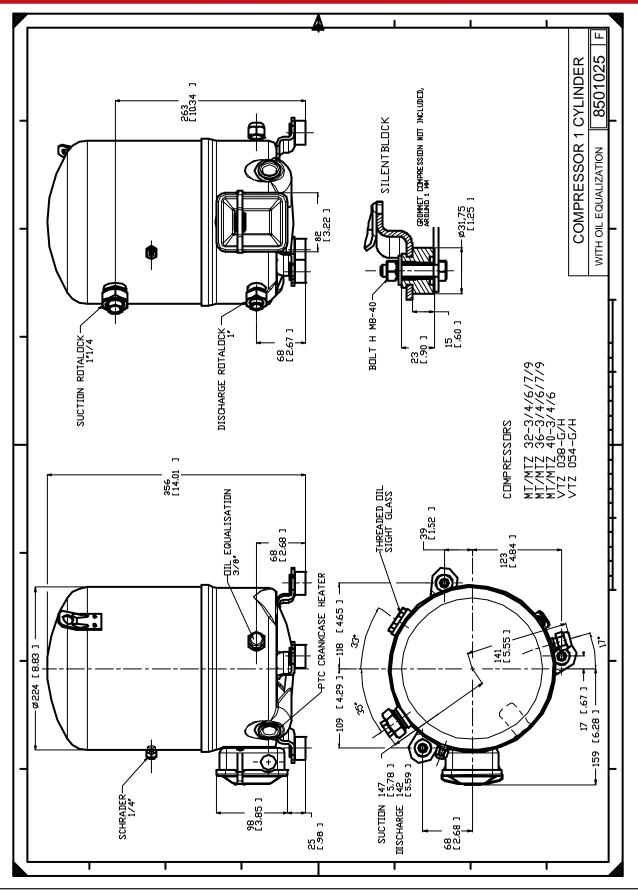
64

dB(A)

dB(A)







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