



Minimum Evaporating Temp. With:

10 K Suction Superheat

Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Additional restrictions, please see application guidelines

50 Hz

ZR108KRE-TFD

R513A

Cond °C	Cooling Capacity, kW													
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0	30.0	35.0	40.0
20.0	9.68	11.90	14.60	17.85	21.70	23.50								
25.0	9.08	11.30	13.95	17.10	20.80	22.50	25.20							
30.0	8.47	10.65	13.20	16.30	19.90	21.50	24.10	26.50	29.10					
35.0	7.83	9.95	12.45	15.40	18.90	20.50	23.00	25.30	27.70					
40.0	7.17	9.24	11.65	14.50	17.85	19.35	21.70	23.90	26.30	31.50				
45.0	6.50	8.50	10.80	13.55	16.75	18.15	20.40	22.50	24.70	29.70	35.40			
50.0		7.72	9.95	12.55	15.55	16.90	19.05	21.00	23.10	27.80	33.20	39.40		
55.0		6.92	9.03	11.50	14.30	15.60	17.65	19.45	21.50	25.90	31.00	36.80	43.40	
60.0			8.08	10.35	13.05	14.20	16.10	17.85	19.70	23.90	28.60	34.10	40.30	47.40
65.0			7.09	9.21	11.70	12.75	14.55	16.15	17.90	21.70	26.20	31.30	37.20	43.80
70.0				8.01	10.25	11.25	12.90	14.35	15.95	19.55	23.70	28.40	33.90	40.10
75.0				6.75	8.80	9.71	11.20	12.55	14.00	17.25	21.00	25.40	30.50	36.30
80.0							9.40	10.60	11.90	14.85	18.30	22.30	27.00	32.40
85.0										12.40	15.50	19.15	23.40	28.30

Cond °C	Power, kW													
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0	30.0	35.0	40.0
20.0	2.74	2.74	2.77	2.81	2.86	2.89								
25.0	2.99	3.00	3.03	3.07	3.12	3.15	3.19							
30.0	3.27	3.29	3.31	3.35	3.41	3.43	3.48	3.51	3.56					
35.0	3.59	3.60	3.63	3.67	3.73	3.75	3.79	3.82	3.86					
40.0	3.95	3.96	3.99	4.03	4.08	4.10	4.14	4.17	4.21	4.28				
45.0	4.35	4.37	4.40	4.44	4.48	4.50	4.53	4.56	4.59	4.66	4.74			
50.0		4.84	4.86	4.90	4.94	4.95	4.98	5.01	5.03	5.09	5.16	5.23		
55.0		5.36	5.39	5.42	5.45	5.47	5.49	5.51	5.53	5.58	5.63	5.69	5.76	
60.0			5.98	6.01	6.03	6.05	6.06	6.08	6.10	6.14	6.18	6.22	6.27	6.32
65.0			6.66	6.67	6.69	6.70	6.72	6.73	6.74	6.76	6.79	6.82	6.85	6.88
70.0				7.42	7.44	7.44	7.45	7.45	7.46	7.47	7.48	7.49	7.51	7.52
75.0				8.27	8.27	8.27	8.27	8.27	8.27	8.27	8.26	8.26	8.25	8.24
80.0							9.19	9.18	9.18	9.16	9.14	9.12	9.09	9.06
85.0										10.15	10.10	10.10	10.05	9.98

Additional restrictions, please see application guidelines

50 Hz

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Cond °C	Current at 400 V, A													
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0	30.0	35.0	40.0
20.0	8.50	8.49	8.48	8.48	8.50	8.50								
25.0	8.51	8.51	8.52	8.54	8.56	8.57	8.60							
30.0	8.62	8.63	8.64	8.67	8.71	8.73	8.75	8.78	8.81					
35.0	8.82	8.83	8.86	8.90	8.94	8.96	8.99	9.02	9.05					
40.0	9.12	9.14	9.17	9.21	9.26	9.28	9.32	9.35	9.38	9.44				
45.0	9.53	9.55	9.58	9.62	9.67	9.69	9.72	9.75	9.79	9.85	9.92			
50.0		10.06	10.08	10.12	10.17	10.19	10.22	10.25	10.28	10.34	10.41	10.48		
55.0		10.67	10.69	10.72	10.76	10.78	10.81	10.83	10.86	10.92	10.98	11.04	11.10	
60.0			11.41	11.43	11.46	11.47	11.49	11.51	11.53	11.58	11.63	11.68	11.73	11.79
65.0			12.23	12.23	12.25	12.26	12.27	12.28	12.30	12.33	12.36	12.40	12.44	12.48
70.0				13.15	13.15	13.15	13.15	13.15	13.16	13.17	13.19	13.21	13.23	13.25
75.0				14.17	14.15	14.14	14.13	14.13	14.12	14.11	14.11	14.11	14.11	14.11
80.0							15.22	15.20	15.18	15.15	15.12	15.10	15.07	15.05
85.0										16.29	16.23	16.18	16.13	16.07

Cond °C	Suction Mass Flow, g/s													
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0	30.0	35.0	40.0
20.0	63.60	76.40	91.70	109.50	130.50	140.00								
25.0	62.60	75.80	91.50	110.00	131.00	140.50	155.50							
30.0	61.40	75.10	91.10	109.50	131.00	140.50	155.50	169.00	183.50					
35.0	60.00	74.20	90.50	109.50	131.00	140.50	155.50	169.00	183.00					
40.0	58.30	73.00	89.70	108.50	130.50	140.00	155.00	168.50	183.00	214.00				
45.0	56.40	71.60	88.60	108.00	129.50	139.00	154.00	167.50	182.00	213.00	248.00			
50.0		69.80	87.10	106.50	128.50	138.00	153.00	166.50	181.00	212.00	247.00	286.00		
55.0		67.60	85.30	105.00	127.00	136.50	151.50	165.00	179.50	211.00	246.00	285.00	328.00	
60.0			82.90	102.50	125.00	134.50	149.50	163.00	177.50	209.00	244.00	283.00	326.00	374.00
65.0			79.90	100.00	122.00	132.00	147.00	160.50	174.50	206.00	241.00	280.00	324.00	372.00
70.0				96.50	119.00	128.50	143.50	157.00	171.50	203.00	238.00	277.00	321.00	369.00
75.0				92.10	114.50	124.50	139.50	153.00	167.50	199.00	234.00	273.00	318.00	367.00
80.0							135.00	148.50	163.00	194.50	230.00	270.00	315.00	365.00
85.0										191.50	228.00	269.00	316.00	368.00

Additional restrictions, please see application guidelines

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	24.9
Length/Width, mm	281/284
Height, mm	533
Net Weight, kg	59.9
Stub Suction, inch	1 3/8
Stub Discharge, inch	7/8
Oil Quantity, l	3.38
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Base mounting (hole dia), mm	190 x 190 (0)
Sound Pressure @ 1m (HT), dBA	63
Sound Power (HT), dBA	74
Sound Conditions (HT, Temperatures:	5 / 50 / 15 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	2
Max. Internal Free Volume, l	12.9
High Side PS gauge, bar	32
Low Side PS gauge, bar	20
Low Side TS Max., °C	53
Low Side TS Min., °C	-35
Refrigerant's GWP	631
Refrigerant's classification	A1

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)

Maximum Operating Current, A	20
Locked Rotor Current, A	111
Winding Resistance, ohm	1.47
Default Enclosure Class	IP 21/65

ACCESSORIES INCLUDED

Oil Service Valve	Schraeder Valve
Check Valve	Discharge Low Leak Check Valve
Discharge Temperature Protection	ASTP Therm-O-Disc In Scroll
Enclosure Class	IP21
Oil Charge	

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ACCESSORIES OPTIONAL

<p>Mounting Grommets Adapter Kit Oil Control System Enclosure Class Mounting Grommets Sound Attenuation Crankcase Heater</p>	<p>Rubber Grommet For Single R1"1/4 -B 1"1/8 For TPTL for Parallel Operation ALCO Trax-Oil OM3 IP 65 Hard Mounts for Paralleling Sound Shell (12dBA) 67 W External</p>
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MOTOR OPTIONS

<i>Motor Code</i>	<i>Power Supply</i>	<i>Nominal Voltage, V</i>	<i>Start Connection</i>	<i>DOL Connection</i>	<i>Amps Factor</i>
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TFD	460 V / 3~ / 60 Hz	460		Y	1.04

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