



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- 20 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Additional restrictions, please see application guidelines

50 Hz

ZR61KRE-TFD

R513A

Cond °C	Cooling Capacity, kW											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	4.99	6.17	7.62	9.35								
15.0	4.72	5.88	7.28	8.96	10.90							
20.0	4.45	5.58	6.94	8.56	10.45	12.65						
25.0	4.18	5.27	6.59	8.15	9.98	12.10	13.00	14.50				
30.0	3.89	4.96	6.23	7.73	9.49	11.50	12.40	13.85	15.15	16.50		
35.0	3.60	4.63	5.86	7.30	8.98	10.95	11.80	13.15	14.40	15.70		
40.0	3.28	4.28	5.46	6.85	8.45	10.30	11.15	12.45	13.60	14.85	17.60	
45.0	2.95	3.91	5.05	6.37	7.91	9.68	10.45	11.70	12.85	14.00	16.65	19.60
50.0		3.52	4.61	5.87	7.33	9.01	9.76	10.95	12.00	13.15	15.65	18.45
55.0			4.14	5.34	6.72	8.32	9.02	10.15	11.15	12.25	14.60	17.25
60.0			3.64	4.78	6.08	7.59	8.25	9.32	10.25	11.30	13.50	16.05
65.0				4.18	5.41	6.82	7.45	8.45	9.34	10.30	12.40	14.80
70.0					4.69	6.02	6.60	7.54	8.38	9.27	11.25	
75.0					3.94	5.17	5.71	6.58	7.36	8.20		

Cond °C	Power, kW											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	1.17	1.16	1.15	1.16								
15.0	1.32	1.30	1.30	1.30	1.32							
20.0	1.48	1.48	1.46	1.46	1.47	1.50						
25.0	1.67	1.66	1.64	1.64	1.64	1.66	1.68	1.70				
30.0	1.86	1.86	1.84	1.84	1.83	1.84	1.86	1.88	1.90	1.94		
35.0	2.08	2.07	2.06	2.05	2.05	2.05	2.06	2.07	2.09	2.12		
40.0	2.31	2.31	2.31	2.30	2.29	2.29	2.29	2.30	2.31	2.33	2.39	
45.0	2.56	2.57	2.57	2.56	2.55	2.55	2.55	2.55	2.56	2.58	2.62	2.69
50.0		2.85	2.86	2.85	2.84	2.84	2.84	2.84	2.84	2.85	2.88	2.94
55.0			3.17	3.17	3.16	3.16	3.15	3.15	3.15	3.16	3.18	3.22
60.0			3.51	3.52	3.51	3.51	3.50	3.50	3.50	3.50	3.51	3.55
65.0				3.89	3.89	3.89	3.88	3.88	3.88	3.88	3.88	3.90
70.0					4.30	4.30	4.30	4.29	4.29	4.29	4.29	
75.0					4.75	4.75	4.75	4.75	4.74	4.74		

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Cond °C	Current at 400 V, A											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	4.36	4.31	4.29	4.30								
15.0	4.83	4.78	4.76	4.76	4.79							
20.0	5.25	5.21	5.18	5.17	5.19	5.25						
25.0	5.63	5.59	5.56	5.55	5.56	5.61	5.63	5.68				
30.0	5.98	5.95	5.93	5.91	5.92	5.95	5.97	6.01	6.05	6.11		
35.0	6.33	6.31	6.28	6.27	6.27	6.28	6.30	6.33	6.36	6.41		
40.0	6.68	6.67	6.65	6.63	6.62	6.63	6.64	6.66	6.69	6.72	6.82	
45.0	7.04	7.04	7.03	7.01	7.00	7.00	7.01	7.02	7.04	7.06	7.13	7.24
50.0		7.45	7.44	7.43	7.42	7.41	7.41	7.42	7.43	7.44	7.49	7.58
55.0			7.90	7.89	7.88	7.87	7.87	7.87	7.87	7.88	7.91	7.97
60.0			8.42	8.42	8.41	8.39	8.39	8.38	8.38	8.38	8.39	8.43
65.0				9.02	9.01	8.99	8.98	8.97	8.96	8.96	8.95	8.97
70.0					9.70	9.68	9.67	9.66	9.64	9.63	9.61	
75.0					10.49	10.48	10.46	10.45	10.43	10.41		

Cond °C	Suction Mass Flow, g/s											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	30.70	37.20	44.90	54.00								
15.0	30.30	36.90	44.80	53.90	64.30							
20.0	29.90	36.70	44.60	53.70	64.20	76.10						
25.0	29.50	36.30	44.30	53.60	64.10	76.00	81.10	89.30				
30.0	29.00	36.00	44.10	53.30	63.90	75.80	81.00	89.20	96.40	104.00		
35.0	28.30	35.50	43.70	53.10	63.70	75.60	80.80	89.00	96.20	104.00		
40.0	27.50	34.80	43.20	52.70	63.40	75.30	80.50	88.70	95.90	103.50	120.00	
45.0	26.40	34.00	42.50	52.10	62.90	75.00	80.10	88.40	95.60	103.00	119.50	137.50
50.0		32.90	41.60	51.40	62.30	74.40	79.60	87.90	95.20	103.00	119.00	137.00
55.0			40.40	50.40	61.40	73.70	79.00	87.30	94.60	102.50	119.00	137.00
60.0			38.70	49.00	60.30	72.70	78.10	86.40	93.80	101.50	118.00	136.50
65.0				47.10	58.70	71.40	76.80	85.40	92.80	100.50	117.50	136.00
70.0					56.60	69.70	75.20	84.00	91.60	99.60	116.50	
75.0					53.70	67.40	73.20	82.20	90.00	98.20		

Additional restrictions, please see application guidelines

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	14.4
Length/Width, mm	246/257
Height, mm	438
Net Weight, kg	37.5
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.9
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 (19)
Sound Pressure @ 1m (HT), dBA	58
Sound Power (HT), dBA	69
Sound Conditions (HT, Temperatures:	5 / 50 / 15 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	1
Max. Internal Free Volume, l	4.20
High Side PS gauge, bar	29
Low Side PS gauge, bar	21
Low Side TS Max., °C	50
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	12.8
Locked Rotor Current, A	65.6
Winding Resistance, ohm	2.72
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermodisk
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Additional restrictions, please see application guidelines

50 Hz

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ACCESSORIES OPTIONAL

Crankcase Heater
Oil Control System
Sound Attenuation
Rotalock valves
Mounting Grommets

70 W External
ALCO Trax-Oil OM3
Sound Shell (10dBA)
suction and discharge
Standard

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
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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