



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

ZR36KRE-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	2.86	3.57	4.43	5.46								
15.0	2.71	3.40	4.23	5.23	6.41							
20.0	2.56	3.23	4.03	4.99	6.13	7.47						
25.0	2.40	3.05	3.82	4.74	5.83	7.12	7.70	8.62				
30.0	2.25	2.86	3.60	4.48	5.53	6.77	7.32	8.21	9.01	9.88		
35.0	2.09	2.67	3.38	4.22	5.22	6.39	6.92	7.78	8.55	9.38		
40.0	1.93	2.48	3.15	3.94	4.89	6.01	6.51	7.33	8.07	8.86	10.65	
45.0	1.77	2.29	2.91	3.66	4.56	5.62	6.09	6.87	7.57	8.33	10.00	11.95
50.0		2.10	2.68	3.38	4.21	5.21	5.66	6.39	7.06	7.78	9.38	11.25
55.0			2.44	3.08	3.86	4.80	5.22	5.90	6.53	7.21	8.73	10.50
60.0			2.20	2.79	3.51	4.37	4.76	5.41	5.99	6.63	8.06	9.73
65.0				2.49	3.14	3.94	4.30	4.90	5.44	6.04	7.38	8.95
70.0					2.78	3.50	3.83	4.38	4.88	5.43	6.68	
75.0					2.40	3.05	3.35	3.85	4.31	4.81		

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	0.72	0.72	0.71	0.71								
15.0	0.80	0.80	0.80	0.80	0.79							
20.0	0.90	0.90	0.89	0.89	0.88	0.88						
25.0	1.01	1.00	1.00	0.99	0.99	0.98	0.98	0.98				
30.0	1.12	1.12	1.12	1.11	1.10	1.10	1.10	1.09	1.09	1.08		
35.0	1.26	1.26	1.25	1.24	1.24	1.23	1.23	1.22	1.22	1.22		
40.0	1.41	1.40	1.40	1.39	1.38	1.37	1.37	1.36	1.36	1.36	1.35	
45.0	1.58	1.57	1.56	1.56	1.54	1.54	1.53	1.52	1.52	1.52	1.51	1.50
50.0		1.76	1.75	1.74	1.72	1.72	1.71	1.70	1.70	1.70	1.68	1.68
55.0			1.96	1.94	1.94	1.92	1.92	1.91	1.90	1.90	1.89	1.88
60.0			2.19	2.18	2.16	2.15	2.14	2.14	2.13	2.12	2.11	2.10
65.0				2.44	2.42	2.40	2.40	2.39	2.38	2.37	2.36	2.35
70.0					2.71	2.69	2.68	2.67	2.66	2.65	2.64	
75.0					3.02	3.00	2.99	2.98	2.97	2.96		

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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	3.04	3.04	3.04	3.04								
15.0	3.09	3.09	3.09	3.08	3.08							
20.0	3.14	3.14	3.14	3.14	3.13	3.13						
25.0	3.21	3.21	3.20	3.20	3.20	3.19	3.19	3.19				
30.0	3.29	3.28	3.28	3.28	3.27	3.27	3.27	3.26	3.26	3.26		
35.0	3.39	3.38	3.38	3.37	3.37	3.36	3.36	3.36	3.35	3.35		
40.0	3.51	3.51	3.50	3.49	3.49	3.48	3.48	3.47	3.47	3.47	3.46	
45.0	3.66	3.66	3.65	3.64	3.63	3.62	3.62	3.61	3.61	3.61	3.60	3.59
50.0		3.84	3.83	3.82	3.81	3.79	3.79	3.78	3.78	3.77	3.77	3.76
55.0			4.04	4.03	4.02	4.00	4.00	3.99	3.98	3.98	3.97	3.96
60.0			4.30	4.28	4.27	4.25	4.24	4.23	4.23	4.22	4.21	4.20
65.0				4.58	4.56	4.54	4.53	4.52	4.51	4.51	4.49	4.48
70.0					4.90	4.88	4.87	4.86	4.85	4.84	4.82	
75.0					5.29	5.27	5.26	5.24	5.23	5.22		

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	17.60	21.50	26.10	31.50								
15.0	17.45	21.40	26.00	31.40	37.80							
20.0	17.20	21.20	25.90	31.30	37.60	44.90						
25.0	16.95	21.00	25.70	31.10	37.50	44.80	48.00	53.10				
30.0	16.70	20.70	25.40	30.90	37.30	44.50	47.70	52.90	57.40	62.30		
35.0	16.45	20.50	25.20	30.70	37.00	44.30	47.50	52.60	57.20	62.00		
40.0	16.15	20.20	24.90	30.30	36.60	43.90	47.10	52.20	56.80	61.70	72.30	
45.0	15.85	19.90	24.60	30.00	36.30	43.50	46.70	51.80	56.40	61.30	72.00	84.00
50.0		19.55	24.20	29.60	35.80	43.00	46.20	51.30	55.90	60.80	71.50	83.60
55.0			23.80	29.10	35.30	42.50	45.70	50.80	55.40	60.30	71.00	83.20
60.0			23.40	28.60	34.70	41.90	45.10	50.20	54.80	59.70	70.50	82.70
65.0				28.10	34.10	41.20	44.40	49.50	54.10	59.00	69.90	82.30
70.0					33.50	40.50	43.60	48.70	53.40	58.30	69.30	
75.0					32.80	39.80	42.90	48.00	52.70	57.70		

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COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	8.61
Length/Width, mm	239/245
Height, mm	387
Net Weight, kg	27.3
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1.24
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	55
Sound Power (HT), dBA	66
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	2.50
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	7.2
Locked Rotor Current, A	40
Winding Resistance, ohm	4.83
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermodisk
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50 Hz

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ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Mounting Grommets	Standard
Rotalock valves	suction and discharge

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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