



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

ZR48KRE-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	3.79	4.74	5.91	7.31								
15.0	3.60	4.52	5.63	6.98	8.58							
20.0	3.41	4.29	5.36	6.64	8.17	9.97						
25.0	3.21	4.06	5.08	6.30	7.76	9.48	10.25	11.50				
30.0	3.00	3.82	4.79	5.96	7.35	8.98	9.71	10.90	11.95	13.10		
35.0	2.79	3.57	4.50	5.61	6.93	8.48	9.17	10.30	11.30	12.40		
40.0	2.57	3.32	4.20	5.25	6.50	7.97	8.62	9.69	10.65	11.70	14.00	
45.0	2.34	3.06	3.89	4.89	6.06	7.45	8.07	9.07	9.99	10.95	13.15	15.70
50.0		2.78	3.57	4.51	5.61	6.91	7.50	8.45	9.31	10.25	12.30	14.70
55.0			3.24	4.11	5.15	6.37	6.92	7.81	8.62	9.49	11.45	13.70
60.0			2.89	3.71	4.67	5.81	6.32	7.16	7.91	8.73	10.55	12.70
65.0				3.29	4.18	5.24	5.71	6.49	7.19	7.96	9.68	11.70
70.0					3.67	4.65	5.09	5.80	6.46	7.17	8.77	
75.0					3.14	4.04	4.44	5.10	5.70	6.36		

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	0.87	0.88	0.89	0.92								
15.0	0.98	0.99	1.00	1.02	1.04							
20.0	1.11	1.11	1.12	1.13	1.15	1.19						
25.0	1.25	1.26	1.26	1.27	1.28	1.30	1.32	1.34				
30.0	1.41	1.41	1.42	1.42	1.42	1.44	1.46	1.48	1.50	1.52		
35.0	1.58	1.59	1.59	1.59	1.60	1.60	1.61	1.62	1.64	1.66		
40.0	1.78	1.79	1.79	1.79	1.79	1.79	1.80	1.80	1.82	1.83	1.87	
45.0	2.00	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.03	2.06	2.11
50.0		2.25	2.26	2.26	2.25	2.25	2.25	2.25	2.25	2.26	2.27	2.31
55.0			2.53	2.54	2.53	2.52	2.52	2.52	2.52	2.52	2.53	2.55
60.0			2.84	2.84	2.84	2.83	2.82	2.82	2.81	2.81	2.81	2.82
65.0				3.18	3.17	3.16	3.16	3.15	3.15	3.14	3.13	3.14
70.0					3.55	3.54	3.53	3.52	3.52	3.51	3.49	
75.0					3.95	3.95	3.94	3.93	3.92	3.91		

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50 Hz

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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	2.62	2.64	2.66	2.69								
15.0	2.92	2.93	2.95	2.97	3.01							
20.0	3.18	3.18	3.20	3.22	3.25	3.29						
25.0	3.42	3.42	3.43	3.45	3.47	3.50	3.52	3.54				
30.0	3.65	3.65	3.65	3.66	3.68	3.70	3.72	3.74	3.76	3.79		
35.0	3.87	3.87	3.87	3.88	3.89	3.91	3.92	3.94	3.95	3.97		
40.0	4.11	4.10	4.10	4.10	4.10	4.12	4.12	4.14	4.15	4.17	4.21	
45.0	4.36	4.35	4.34	4.34	4.34	4.34	4.35	4.36	4.37	4.38	4.41	4.46
50.0		4.62	4.61	4.60	4.59	4.60	4.60	4.60	4.61	4.62	4.64	4.68
55.0			4.91	4.90	4.89	4.88	4.88	4.88	4.88	4.89	4.91	4.93
60.0			5.25	5.24	5.22	5.21	5.21	5.20	5.20	5.20	5.21	5.23
65.0				5.63	5.61	5.59	5.59	5.58	5.58	5.57	5.57	5.58
70.0					6.06	6.04	6.03	6.02	6.01	6.00	6.00	
75.0					6.58	6.55	6.54	6.52	6.51	6.50		

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	23.30	28.60	34.80	42.20								
15.0	23.10	28.40	34.60	42.00	50.50							
20.0	22.90	28.20	34.40	41.70	50.20	60.00						
25.0	22.70	28.00	34.20	41.40	49.90	59.60	63.90	70.70				
30.0	22.40	27.70	33.90	41.10	49.50	59.10	63.40	70.20	76.20	82.70		
35.0	22.00	27.40	33.60	40.80	49.10	58.70	62.90	69.60	75.70	82.10		
40.0	21.50	27.00	33.20	40.40	48.70	58.20	62.40	69.10	75.00	81.40	95.40	
45.0	21.00	26.50	32.80	40.00	48.20	57.70	61.80	68.50	74.40	80.70	94.60	110.00
50.0		25.90	32.30	39.50	47.70	57.10	61.20	67.80	73.80	80.10	93.90	109.50
55.0			31.60	38.80	47.00	56.40	60.60	67.10	73.00	79.30	93.10	108.50
60.0			30.70	38.00	46.30	55.70	59.80	66.40	72.30	78.60	92.40	108.00
65.0				37.10	45.40	54.80	59.00	65.60	71.50	77.80	91.70	107.50
70.0					44.30	53.80	58.00	64.70	70.60	77.00	91.00	
75.0					42.90	52.70	56.90	63.70	69.80	76.20		

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COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	11.4
Length/Width, mm	239/245
Height, mm	417
Net Weight, kg	28.5
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.45
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	57
Sound Power (HT), dBA	68
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	2.90
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	10
Locked Rotor Current, A	50
Winding Resistance, ohm	3.88
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermodisk
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ACCESSORIES OPTIONAL

Oil Control System	ALCO Trax-Oil OM3
Mounting Grommets	Standard
Crankcase Heater	70 W External

Additional restrictions, please see application guidelines

50 Hz

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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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