



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

ZR28KRE-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	2.26	2.82	3.50	4.32								
15.0	2.13	2.68	3.35	4.15	5.08							
20.0	2.01	2.54	3.19	3.96	4.87	5.93						
25.0	1.88	2.39	3.02	3.77	4.65	5.67	6.12	6.85				
30.0	1.74	2.25	2.85	3.57	4.42	5.40	5.84	6.53	7.16	7.82		
35.0	1.62	2.09	2.67	3.36	4.17	5.12	5.53	6.20	6.80	7.44		
40.0	1.48	1.94	2.49	3.14	3.91	4.81	5.21	5.85	6.43	7.04	8.38	
45.0	1.36	1.78	2.29	2.91	3.64	4.50	4.88	5.49	6.03	6.62	7.90	9.35
50.0		1.62	2.10	2.67	3.36	4.17	4.53	5.10	5.62	6.18	7.40	8.78
55.0			1.90	2.43	3.07	3.82	4.16	4.70	5.19	5.71	6.87	8.18
60.0			1.68	2.17	2.76	3.46	3.78	4.28	4.74	5.23	6.32	7.56
65.0				1.91	2.45	3.09	3.38	3.85	4.27	4.73	5.75	6.91
70.0					2.12	2.70	2.96	3.39	3.79	4.21	5.15	
75.0					1.78	2.30	2.54	2.92	3.28	3.67		

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	0.59	0.59	0.59	0.61								
15.0	0.66	0.66	0.66	0.67	0.69							
20.0	0.74	0.73	0.73	0.74	0.75	0.78						
25.0	0.83	0.82	0.82	0.82	0.82	0.85	0.86	0.88				
30.0	0.92	0.92	0.91	0.91	0.91	0.92	0.94	0.95	0.97	1.00		
35.0	1.03	1.03	1.02	1.02	1.02	1.02	1.02	1.04	1.06	1.08		
40.0	1.16	1.15	1.14	1.14	1.13	1.13	1.14	1.14	1.15	1.16	1.21	
45.0	1.29	1.29	1.28	1.27	1.27	1.26	1.26	1.27	1.27	1.28	1.31	1.36
50.0		1.44	1.44	1.42	1.42	1.40	1.40	1.40	1.40	1.41	1.43	1.47
55.0			1.61	1.60	1.58	1.58	1.57	1.56	1.56	1.56	1.58	1.60
60.0			1.80	1.80	1.78	1.76	1.76	1.75	1.74	1.74	1.74	1.76
65.0				2.01	1.99	1.98	1.96	1.96	1.95	1.94	1.94	1.94
70.0					2.23	2.21	2.20	2.19	2.18	2.17	2.16	
75.0					2.49	2.47	2.46	2.45	2.44	2.43		

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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	1.97	1.96	1.96	1.98								
15.0	2.16	2.15	2.15	2.17	2.19							
20.0	2.34	2.33	2.33	2.33	2.35	2.39						
25.0	2.50	2.49	2.48	2.49	2.50	2.53	2.55	2.58				
30.0	2.66	2.65	2.64	2.64	2.65	2.67	2.68	2.71	2.73	2.76		
35.0	2.82	2.80	2.79	2.79	2.79	2.81	2.82	2.83	2.85	2.88		
40.0	2.99	2.97	2.96	2.95	2.95	2.95	2.96	2.97	2.99	3.01	3.06	
45.0	3.17	3.15	3.14	3.12	3.11	3.11	3.12	3.12	3.13	3.15	3.19	3.25
50.0		3.36	3.34	3.32	3.30	3.30	3.30	3.30	3.30	3.31	3.34	3.39
55.0			3.57	3.55	3.52	3.51	3.51	3.50	3.50	3.51	3.53	3.56
60.0			3.83	3.81	3.78	3.76	3.75	3.74	3.74	3.74	3.74	3.76
65.0				4.11	4.08	4.05	4.04	4.02	4.01	4.01	4.00	4.01
70.0					4.42	4.39	4.37	4.35	4.34	4.33	4.31	
75.0					4.83	4.78	4.76	4.74	4.72	4.70		

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	13.90	17.00	20.70	25.00								
15.0	13.70	16.85	20.60	24.90	30.00							
20.0	13.50	16.70	20.50	24.90	29.90	35.70						
25.0	13.25	16.50	20.30	24.80	29.90	35.70	38.20	42.10				
30.0	13.00	16.30	20.10	24.60	29.80	35.60	38.10	42.10	45.60	49.30		
35.0	12.75	16.05	19.90	24.40	29.60	35.40	37.90	41.90	45.50	49.20		
40.0	12.45	15.75	19.65	24.20	29.30	35.20	37.70	41.70	45.30	49.00	57.10	
45.0	12.15	15.45	19.35	23.80	29.00	34.80	37.40	41.40	45.00	48.70	56.80	65.70
50.0		15.10	18.95	23.40	28.60	34.40	36.90	41.00	44.50	48.30	56.40	65.40
55.0			18.50	22.90	28.00	33.90	36.40	40.40	44.00	47.80	55.90	64.90
60.0			17.95	22.30	27.40	33.20	35.70	39.70	43.30	47.10	55.30	64.30
65.0				21.60	26.60	32.30	34.90	38.90	42.40	46.20	54.40	63.60
70.0					25.60	31.30	33.80	37.80	41.40	45.20	53.50	
75.0					24.30	30.00	32.50	36.50	40.10	43.90		

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COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	6.83
Length/Width, mm	239/245
Height, mm	364
Net Weight, kg	25.8
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1.12
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	54
Sound Power (HT), dBA	65
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	5 / 50 / 15 °C at 50 Hz
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	6.5
Locked Rotor Current, A	32
Winding Resistance, ohm	5.94
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

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