



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-PFJ

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	2.28	2.85	3.53	4.32								
15.0	2.17	2.74	3.40	4.18	5.09							
20.0	2.06	2.61	3.26	4.02	4.91	5.93						
25.0	1.94	2.48	3.11	3.85	4.71	5.70	6.14	6.84				
30.0	1.82	2.34	2.95	3.66	4.49	5.45	5.87	6.55	7.16	7.81		
35.0	1.68	2.18	2.77	3.46	4.26	5.18	5.59	6.24	6.83	7.45		
40.0	1.55	2.02	2.58	3.24	4.00	4.89	5.28	5.91	6.47	7.07	8.40	
45.0	1.40	1.86	2.38	3.00	3.73	4.57	4.95	5.55	6.09	6.67	7.94	9.38
50.0		1.68	2.17	2.75	3.44	4.24	4.60	5.17	5.68	6.23	7.45	8.83
55.0			1.95	2.49	3.13	3.89	4.22	4.76	5.25	5.77	6.93	8.25
60.0			1.72	2.22	2.81	3.52	3.83	4.34	4.80	5.29	6.39	7.64
65.0				1.93	2.47	3.12	3.41	3.89	4.32	4.78	5.81	7.00
70.0					2.12	2.71	2.98	3.42	3.82	4.25	5.21	
75.0					1.75	2.28	2.53	2.93	3.29	3.69		

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	0.57	0.57	0.58	0.60								
15.0	0.64	0.64	0.64	0.65	0.68							
20.0	0.71	0.71	0.71	0.72	0.74	0.76						
25.0	0.80	0.79	0.79	0.79	0.80	0.82	0.83	0.85				
30.0	0.89	0.88	0.88	0.88	0.89	0.90	0.91	0.92	0.93	0.94		
35.0	1.00	0.99	0.98	0.98	0.98	0.99	1.00	1.01	1.01	1.02		
40.0	1.12	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.11	1.12	1.12	
45.0	1.26	1.25	1.24	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.24
50.0		1.40	1.39	1.38	1.38	1.37	1.37	1.36	1.36	1.36	1.36	1.35
55.0			1.56	1.56	1.54	1.54	1.54	1.52	1.52	1.52	1.50	1.49
60.0			1.76	1.75	1.74	1.72	1.72	1.71	1.70	1.70	1.68	1.66
65.0				1.96	1.96	1.94	1.93	1.92	1.91	1.90	1.88	1.84
70.0					2.20	2.18	2.17	2.16	2.14	2.13	2.10	
75.0					2.46	2.45	2.44	2.42	2.41	2.39		

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50 Hz

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Cond °C	Current at 230 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	4.73	4.72	4.74	4.80								
15.0	5.17	5.15	5.17	5.22	5.29							
20.0	5.57	5.55	5.55	5.59	5.66	5.73						
25.0	5.95	5.91	5.91	5.94	5.99	6.06	6.09	6.13				
30.0	6.31	6.27	6.26	6.28	6.32	6.37	6.40	6.43	6.47	6.50		
35.0	6.69	6.64	6.62	6.63	6.65	6.69	6.71	6.74	6.76	6.78		
40.0	7.09	7.03	7.00	6.99	7.01	7.03	7.04	7.06	7.08	7.09	7.11	
45.0	7.53	7.46	7.42	7.40	7.40	7.41	7.41	7.42	7.43	7.43	7.44	7.43
50.0		7.95	7.89	7.86	7.84	7.83	7.83	7.83	7.83	7.82	7.81	7.78
55.0			8.44	8.39	8.36	8.33	8.32	8.31	8.30	8.28	8.25	8.20
60.0			9.07	9.01	8.96	8.92	8.90	8.87	8.85	8.83	8.77	8.70
65.0				9.73	9.66	9.60	9.58	9.54	9.51	9.47	9.39	9.30
70.0					10.48	10.40	10.37	10.32	10.28	10.23	10.13	
75.0					11.44	11.34	11.30	11.24	11.19	11.13		

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	14.00	17.15	20.80	25.00								
15.0	13.95	17.20	20.90	25.20	30.00							
20.0	13.85	17.15	20.90	25.30	30.20	35.70						
25.0	13.70	17.10	20.90	25.30	30.30	35.80	38.30	42.10				
30.0	13.55	16.95	20.80	25.30	30.30	35.90	38.30	42.20	45.60	49.20		
35.0	13.30	16.75	20.70	25.10	30.20	35.90	38.30	42.20	45.70	49.30		
40.0	12.95	16.45	20.40	24.90	30.00	35.70	38.20	42.10	45.60	49.30	57.20	
45.0	12.60	16.10	20.10	24.60	29.70	35.40	37.90	41.90	45.40	49.10	57.10	65.90
50.0		15.65	19.60	24.10	29.20	35.00	37.50	41.50	45.00	48.80	56.80	65.80
55.0			19.00	23.50	28.60	34.40	37.00	41.00	44.50	48.30	56.40	65.50
60.0			18.25	22.80	27.90	33.70	36.20	40.20	43.80	47.60	55.80	65.00
65.0				21.80	26.90	32.70	35.20	39.30	42.90	46.70	55.10	64.40
70.0					25.60	31.40	34.00	38.10	41.70	45.60	54.10	
75.0					23.90	29.80	32.40	36.50	40.20	44.20		

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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)
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 (220-240 V / 1~ / 50 Hz)

Maximum Operating Current, A	12.8
Locked Rotor Current, A	61
Winding Resistance, ohm	1.2/2.23 (R/S)
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermodisk
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ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Single Phase Equipment	Run Capacitor
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Single Phase Equipment	Start Relay and Capacitor
Rotalock valves	suction and discharge
Mounting Grommets	Standard

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
PFJ	220-240 V / 1~ / 50 Hz	230		PSC	1.00
PFJ	265 V / 1~ / 60 Hz	265		PSC	0.75

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