



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 10 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
27.0	2.92	3.66	4.52	5.50	6.63	7.91	8.46	9.34	10.10
30.0	2.83	3.55	4.39	5.35	6.45	7.70	8.24	9.10	9.86
35.0	2.67	3.36	4.17	5.10	6.16	7.36	7.88	8.71	9.44
40.0	2.51	3.18	3.95	4.84	5.86	7.02	7.52	8.32	9.02
45.0		2.98	3.72	4.58	5.56	6.67	7.15	7.92	8.60
50.0			3.48	4.30	5.24	6.31	6.77	7.51	8.16
55.0			3.22	4.01	4.91	5.93	6.37	7.08	7.71
60.0				3.69	4.55	5.53	5.96	6.64	7.25
65.0					4.17	5.11	5.52	6.17	6.75

50 Hz

ZR28K3E-TFD

R22

Cond °C	Power, kW								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
27.0	1.19	1.18	1.18	1.16	1.14	1.12	1.12	1.10	1.10
30.0	1.28	1.28	1.27	1.25	1.23	1.21	1.20	1.20	1.18
35.0	1.44	1.44	1.42	1.41	1.39	1.37	1.36	1.36	1.34
40.0	1.61	1.61	1.60	1.58	1.56	1.54	1.54	1.53	1.52
45.0		1.81	1.80	1.78	1.76	1.74	1.74	1.72	1.72
50.0			2.02	2.00	1.98	1.96	1.95	1.94	1.92
55.0			2.27	2.25	2.22	2.20	2.19	2.17	2.16
60.0				2.52	2.49	2.46	2.45	2.44	2.42
65.0					2.79	2.76	2.75	2.73	2.71

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
27.0	2.72	2.72	2.71	2.69	2.66	2.64	2.64	2.63	2.63
30.0	2.80	2.80	2.79	2.77	2.75	2.73	2.73	2.72	2.72
35.0	2.96	2.97	2.96	2.94	2.92	2.90	2.90	2.89	2.89
40.0	3.16	3.17	3.16	3.14	3.12	3.10	3.09	3.09	3.09
45.0		3.41	3.40	3.38	3.35	3.33	3.33	3.32	3.32
50.0			3.68	3.65	3.63	3.60	3.59	3.58	3.58
55.0			4.01	3.98	3.94	3.91	3.90	3.89	3.88
60.0				4.35	4.31	4.27	4.25	4.23	4.22
65.0					4.72	4.67	4.65	4.63	4.61

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
27.0	17.05	21.10	25.70	30.90	36.80	43.40	46.30	50.80	54.70
30.0	16.85	20.90	25.50	30.70	36.60	43.20	46.00	50.50	54.40
35.0	16.55	20.60	25.20	30.40	36.30	42.80	45.70	50.10	54.10
40.0	16.20	20.20	24.80	30.00	35.90	42.50	45.30	49.80	53.70
45.0		19.85	24.40	29.60	35.50	42.10	44.90	49.30	53.30
50.0			23.90	29.10	35.00	41.60	44.40	48.90	52.80
55.0			23.30	28.50	34.40	41.00	43.80	48.30	52.30
60.0				27.70	33.60	40.20	43.10	47.60	51.60
65.0					32.60	39.30	42.20	46.80	50.90

### **COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, m³/h	6.83
Length/Width, mm	246/246
Height, mm	377
Net Weight, kg	25.4
Gross Weight, kg	29
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 (8.5)
Sound Pressure @ 1m (HT), dBA	54
Sound Power (HT), dBA	65
Sound Power with Sound Shell (HT), dBA	58
Sound Conditions (HT, Temperatures:	7 / 54 / 18 °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	29.5
Low Side PS gauge, bar	20
Low Side TS Max., °C	50
Refrigerant's GWP	1810
Refrigerant's classification	A1

### **COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)**

Maximum Operating Current, A	5.1
Locked Rotor Current, A	32
Winding Resistance, ohm	5.94
Default Enclosure Class	IP 21 (IEC 34)

### **ACCESSORIES INCLUDED**

Discharge Temperature Protection	Internal Thermodisk
Mounting Grommets	Standard

### **ACCESSORIES OPTIONAL**

Crankcase Heater	70 W External
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## **MOTOR OPTIONS**

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TF5	200-220 V / 3~ / 50 Hz	200		Y	2.09
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TF5	200-230 V / 3~ / 60 Hz	230		Y	2.09