



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	3.48	4.36	5.38	6.56	7.90	9.42	10.10	11.10	12.05
30.0	3.37	4.23	5.23	6.38	7.69	9.18	9.82	10.85	11.75
35.0	3.18	4.01	4.97	6.08	7.34	8.77	9.39	10.40	11.25
40.0	2.99	3.78	4.71	5.77	6.98	8.36	8.96	9.91	10.75
45.0		3.55	4.44	5.46	6.62	7.94	8.52	9.44	10.25
50.0			4.15	5.13	6.24	7.51	8.07	8.95	9.73
55.0			3.84	4.77	5.85	7.07	7.60	8.44	9.19
60.0				4.40	5.42	6.59	7.10	7.91	8.63
65.0					4.97	6.08	6.57	7.35	8.05

50 Hz

ZR34K3E-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	1.42	1.41	1.40	1.38	1.36	1.34	1.32	1.32	1.30
30.0	1.52	1.52	1.50	1.48	1.46	1.44	1.43	1.42	1.41
35.0	1.70	1.70	1.69	1.67	1.65	1.62	1.62	1.60	1.60
40.0	1.91	1.90	1.90	1.88	1.86	1.84	1.82	1.81	1.80
45.0		2.14	2.13	2.11	2.09	2.06	2.05	2.04	2.03
50.0			2.39	2.37	2.34	2.31	2.30	2.29	2.28
55.0			2.68	2.65	2.62	2.59	2.58	2.57	2.55
60.0				2.97	2.94	2.91	2.89	2.87	2.86
65.0					3.29	3.25	3.24	3.22	3.20

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	3.23	3.23	3.22	3.19	3.16	3.14	3.13	3.13	3.13
30.0	3.32	3.33	3.31	3.29	3.27	3.24	3.24	3.23	3.24
35.0	3.51	3.52	3.51	3.49	3.46	3.44	3.44	3.43	3.43
40.0	3.74	3.75	3.74	3.72	3.69	3.67	3.67	3.66	3.66
45.0		4.03	4.02	4.00	3.97	3.94	3.94	3.93	3.93
50.0			4.35	4.32	4.29	4.26	4.25	4.24	4.23
55.0			4.73	4.70	4.66	4.62	4.61	4.59	4.58
60.0				5.13	5.08	5.03	5.02	4.99	4.98
65.0					5.56	5.50	5.48	5.45	5.43

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	20.30	25.10	30.60	36.90	43.90	51.80	55.10	60.50	65.20
30.0	20.10	24.90	30.40	36.60	43.60	51.50	54.90	60.20	64.90
35.0	19.75	24.50	30.00	36.20	43.20	51.10	54.40	59.70	64.40
40.0	19.30	24.10	29.60	35.80	42.80	50.60	54.00	59.30	64.00
45.0		23.60	29.10	35.30	42.30	50.10	53.50	58.80	63.50
50.0			28.50	34.70	41.70	49.50	52.90	58.20	62.90
55.0			27.70	34.00	41.00	48.80	52.20	57.60	62.30
60.0				33.00	40.00	48.00	51.40	56.80	61.50
65.0					38.80	46.80	50.30	55.80	60.60

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

Displacement @ 50 Hz, m <sup>3</sup> /h	8.03
Length/Width, mm	246/246
Height, mm	400
Net Weight, kg	28.5
Gross Weight, kg	30
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 (8.5)
Sound Pressure @ 1m (HT), dBA	57
Sound Power (HT), dBA	68
Sound Power with Sound Shell (HT), dBA	61
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	2.60
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	6.3
Locked Rotor Current, A	40
Winding Resistance, ohm	4.83
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