



Minimum Evaporating Temp. With:

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

Suction Superheat 11.1K

Liquid Subcooling 8.3K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	10.0	12.5
25.0	2.26	3.03	3.94	4.99	6.19	7.52	8.98	9.76
30.0	2.12	2.87	3.75	4.76	5.91	7.19	8.59	9.34
35.0	1.95	2.67	3.52	4.51	5.61	6.84	8.18	8.90
40.0	1.74	2.44	3.27	4.22	5.28	6.46	7.75	8.43
45.0		2.16	2.97	3.89	4.92	6.05	7.28	7.94
50.0			2.63	3.52	4.51	5.60	6.79	7.41
55.0				3.10	4.06	5.11	6.25	6.85
60.0					3.56	4.58	5.67	6.25
65.0						3.99	5.04	5.60

50 Hz

ZP24KSE-TFMN

R410A Dew Point

Cond °C	Power, kW							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	10.0	12.5
25.0	0.96	0.97	0.96	0.93	0.89	0.85	0.82	0.81
30.0	1.10	1.12	1.10	1.08	1.04	1.02	0.99	0.98
35.0	1.26	1.28	1.27	1.24	1.21	1.18	1.16	1.14
40.0	1.44	1.46	1.45	1.42	1.39	1.36	1.33	1.32
45.0		1.68	1.66	1.63	1.60	1.56	1.52	1.52
50.0			1.91	1.88	1.83	1.78	1.75	1.74
55.0				2.16	2.11	2.05	2.01	1.99
60.0					2.43	2.37	2.31	2.28
65.0						2.74	2.67	2.63

Cond °C	Current at 380 V, A							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	10.0	12.5
25.0	2.30	2.27	2.25	2.24	2.22	2.19	2.13	2.10
30.0	2.49	2.45	2.42	2.40	2.38	2.35	2.30	2.26
35.0	2.71	2.65	2.61	2.59	2.56	2.53	2.48	2.44
40.0	2.97	2.90	2.85	2.81	2.77	2.74	2.69	2.65
45.0		3.19	3.12	3.07	3.03	2.99	2.93	2.90
50.0			3.46	3.40	3.34	3.29	3.23	3.19
55.0				3.78	3.72	3.65	3.58	3.54
60.0					4.16	4.09	4.01	3.96
65.0						4.60	4.51	4.46

Cond °C	Suction Mass Flow, g/s							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	10.0	12.5
25.0	11.40	15.10	19.45	24.40	29.90	36.00	42.70	46.20
30.0	11.15	14.90	19.25	24.20	29.80	35.90	42.50	46.00
35.0	10.75	14.50	18.90	23.90	29.50	35.60	42.20	45.70
40.0	10.00	13.90	18.40	23.40	29.00	35.20	41.80	45.30
45.0		13.00	17.60	22.70	28.40	34.60	41.30	44.80
50.0			16.45	21.70	27.50	33.80	40.50	44.10
55.0				20.40	26.30	32.80	39.60	43.20
60.0					24.70	31.40	38.40	42.10
65.0						29.60	36.90	40.70

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

Displacement @ 50 Hz, m³/h	3.96
Length/Width, mm	243/243
Height, mm	388
Net Weight, kg	21.9
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	0.74
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF
Base mounting (hole dia), mm	190 x 190 (19)
Sound Pressure @ 1m (HT), dBA	55
Sound Power (HT), dBA	66
Sound Power with Sound Shell (HT), dBA	60
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	2.10
High Side PS gauge, bar	45
Low Side PS gauge, bar	29.5
Refrigerant's GWP	2088
Refrigerant's classification	A1

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

Maximum Operating Current, A	4.7
Locked Rotor Current, A	28
Winding Resistance, ohm	8.14/8.14/6.46 (T1-T2/T2-T3/T3-T1)
Default Enclosure Class	IP 21 (IEC 34)

### **ACCESSORIES INCLUDED**

Mounting Grommets	Rubber Grommet For Single
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### **ACCESSORIES OPTIONAL**

Crankcase Heater	40 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>
TFM	380-420 V / 3~ / 50 Hz	380		Y	1.00