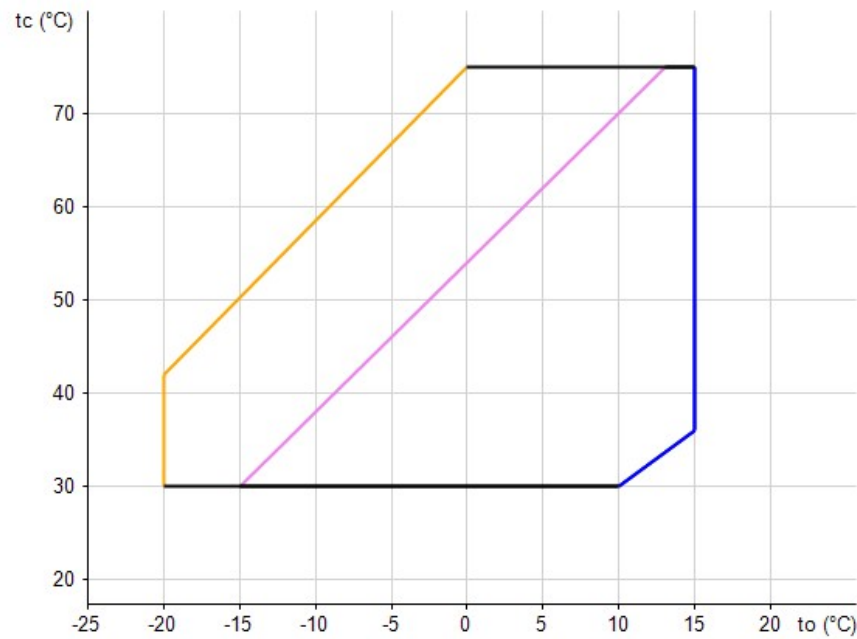


50 Hz

ZR22K3E-TFD

R134a



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	15.0
30.0	1.23	1.60	2.05	2.60	3.25	4.02	4.36	4.90		
35.0	1.14	1.50	1.94	2.46	3.08	3.81	4.13	4.65	5.12	
40.0	1.06	1.40	1.82	2.32	2.91	3.60	3.91	4.40	4.84	5.32
45.0		1.29	1.69	2.17	2.74	3.40	3.69	4.16	4.58	5.02
50.0		1.16	1.56	2.02	2.56	3.18	3.46	3.91	4.30	4.73
55.0			1.40	1.84	2.36	2.96	3.23	3.65	4.03	4.43
60.0				1.66	2.16	2.73	2.98	3.38	3.74	4.12
65.0				1.46	1.93	2.47	2.71	3.10	3.44	3.80
70.0					1.68	2.20	2.43	2.79	3.12	3.46
75.0					1.41	1.90	2.12	2.47	2.77	3.10

50 Hz

ZR22K3E-TFD

R134a

Cond °C	Power, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
30.0	0.72	0.72	0.71	0.70	0.69	0.67	0.66	0.64		
35.0	0.81	0.80	0.80	0.79	0.78	0.76	0.76	0.74	0.73	
40.0	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.85	0.84	0.82
45.0		1.03	1.02	1.01	1.00	0.98	0.97	0.96	0.95	0.94
50.0		1.18	1.16	1.14	1.12	1.11	1.10	1.09	1.08	1.07
55.0			1.32	1.29	1.27	1.26	1.25	1.24	1.22	1.21
60.0				1.46	1.44	1.42	1.40	1.39	1.38	1.36
65.0				1.66	1.63	1.60	1.59	1.57	1.56	1.54
70.0					1.85	1.81	1.80	1.78	1.76	1.74
75.0					2.10	2.05	2.03	2.00	1.98	1.96

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
30.0	1.81	1.79	1.79	1.79	1.79	1.77	1.76	1.74		
35.0	1.91	1.89	1.88	1.88	1.88	1.87	1.86	1.84	1.82	
40.0	2.03	2.00	1.99	1.98	1.98	1.98	1.97	1.96	1.94	1.92
45.0		2.15	2.12	2.11	2.11	2.10	2.09	2.08	2.07	2.05
50.0		2.33	2.29	2.27	2.26	2.25	2.24	2.23	2.21	2.20
55.0			2.49	2.46	2.44	2.42	2.42	2.40	2.39	2.37
60.0				2.69	2.66	2.63	2.62	2.61	2.59	2.57
65.0				2.97	2.92	2.88	2.87	2.85	2.83	2.81
70.0					3.23	3.18	3.16	3.13	3.11	3.08
75.0					3.59	3.52	3.50	3.46	3.43	3.40

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
30.0	8.05	10.25	12.90	16.05	19.70	23.90	25.70	28.60		
35.0	7.91	10.10	12.75	15.90	19.55	23.70	25.50	28.30	30.90	
40.0	7.70	9.95	12.60	15.75	19.35	23.50	25.30	28.10	30.60	33.30
45.0		9.69	12.40	15.55	19.15	23.30	25.00	27.90	30.40	33.00
50.0		9.31	12.10	15.30	18.95	23.00	24.80	27.60	30.10	32.70
55.0			11.65	14.90	18.60	22.70	24.50	27.30	29.80	32.40
60.0				14.35	18.10	22.30	24.10	26.90	29.50	32.10
65.0				13.50	17.40	21.70	23.50	26.40	29.00	31.60
70.0					16.45	20.90	22.80	25.70	28.30	31.00
75.0					15.10	19.75	21.70	24.70	27.40	30.20

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	5.34
Length/Width, mm	242/242
Height, mm	363
Net Weight, kg	22
Gross Weight, kg	26
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1
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
Internal Free Volume, l	2.9
High Side PS gauge, bar	29.5
Low Side PS gauge, bar	20
Low Side TS Max., °C	50
Refrigerant's GWP	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	4.2
Locked Rotor Current, A	24
Winding Resistance, ohm	8.64
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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50 Hz

ZR22K3E-TFD

R134a

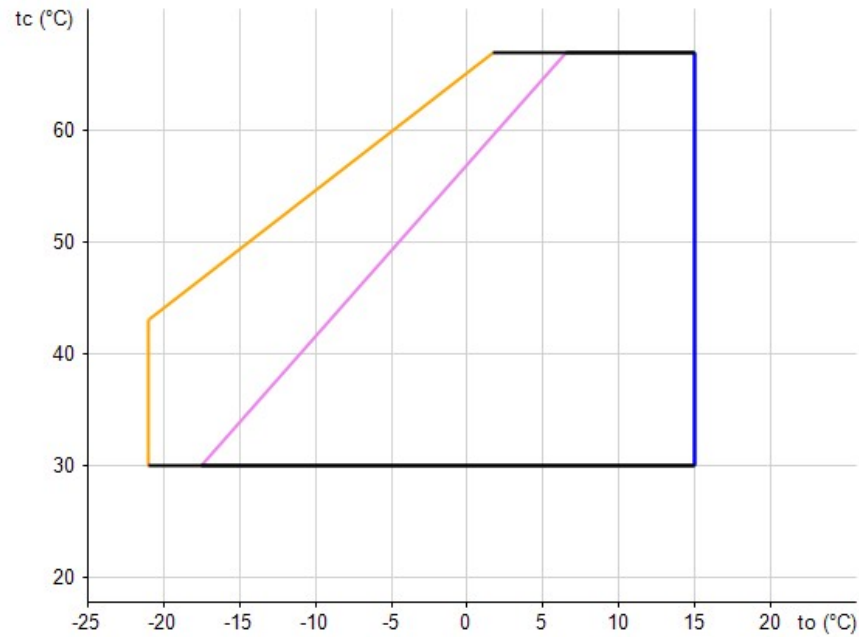
MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00
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

50 Hz

ZR22K3E-TFD

R407C Dew Point



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	15.0
30.0	1.88	2.39	3.02	3.77	4.65	5.66	6.11	6.81	7.43	8.08
35.0	1.74	2.24	2.85	3.58	4.45	5.43	5.86	6.55	7.15	7.79
40.0	1.60	2.08	2.67	3.38	4.21	5.16	5.58	6.25	6.83	7.45
45.0		1.92	2.47	3.15	3.95	4.87	5.27	5.91	6.47	7.07
50.0			2.28	2.91	3.67	4.54	4.92	5.53	6.07	6.65
55.0				2.67	3.37	4.19	4.55	5.13	5.64	6.18
60.0					3.06	3.82	4.16	4.70	5.18	5.69
65.0					2.74	3.44	3.75	4.24	4.69	5.16
67.0						3.28	3.58	4.06	4.49	4.94

50 Hz

ZR22K3E-TFD

R407C Dew Point

Cond °C	Power, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
30.0	0.95	0.94	0.94	0.94	0.93	0.92	0.92	0.91	0.90	0.88
35.0	1.07	1.07	1.07	1.06	1.06	1.05	1.04	1.03	1.02	1.00
40.0	1.21	1.21	1.22	1.21	1.20	1.19	1.18	1.16	1.15	1.13
45.0		1.37	1.38	1.38	1.36	1.35	1.34	1.32	1.30	1.28
50.0			1.56	1.56	1.54	1.53	1.52	1.50	1.48	1.46
55.0				1.76	1.75	1.73	1.72	1.70	1.68	1.65
60.0					1.98	1.96	1.95	1.92	1.90	1.87
65.0					2.24	2.22	2.20	2.18	2.15	2.12
67.0						2.33	2.31	2.29	2.26	2.23

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
30.0	2.13	2.12	2.12	2.11	2.11	2.10	2.09	2.08	2.06	2.04
35.0	2.27	2.26	2.26	2.26	2.25	2.24	2.23	2.21	2.19	2.16
40.0	2.43	2.43	2.43	2.43	2.42	2.41	2.40	2.37	2.35	2.32
45.0		2.62	2.63	2.63	2.63	2.61	2.60	2.57	2.54	2.51
50.0			2.87	2.88	2.87	2.85	2.83	2.80	2.77	2.73
55.0				3.16	3.15	3.12	3.11	3.07	3.04	2.99
60.0					3.47	3.44	3.43	3.39	3.35	3.30
65.0					3.85	3.82	3.79	3.75	3.71	3.66
67.0						3.98	3.96	3.91	3.87	3.82

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
30.0	11.00	13.75	17.05	21.00	25.50	30.70	32.90	36.30	39.40	42.60
35.0	10.70	13.45	16.90	20.90	25.50	30.70	33.00	36.50	39.60	42.90
40.0	10.35	13.15	16.60	20.70	25.30	30.60	32.90	36.50	39.60	42.90
45.0		12.80	16.25	20.30	25.00	30.40	32.60	36.30	39.40	42.80
50.0			15.85	19.90	24.60	29.90	32.20	35.90	39.10	42.40
55.0				19.40	24.10	29.40	31.70	35.30	38.50	41.90
60.0					23.40	28.70	30.90	34.60	37.70	41.10
65.0					22.70	27.80	30.10	33.60	36.80	40.10
67.0						27.40	29.70	33.20	36.40	39.70

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	5.34
Length/Width, mm	242/242
Height, mm	363
Net Weight, kg	22
Gross Weight, kg	26
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1
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
Internal Free Volume, l	2.9
High Side PS gauge, bar	29.5
Low Side PS gauge, bar	20
Low Side TS Max., °C	50
Refrigerant's GWP	1774
Refrigerant's classification	A1

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

Maximum Operating Current, A	4.2
Locked Rotor Current, A	24
Winding Resistance, ohm	8.64
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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50 Hz

ZR22K3E-TFD

R407C Dew Point

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
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