



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- 20 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

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
23.0	6.74									
25.0	6.58									
30.0	6.19	7.79	9.68	11.90						
35.0	5.79	7.32	9.13	11.25	13.75	16.60				
40.0		6.84	8.55	10.55	12.90	15.65	16.85	18.75	20.50	22.30
45.0		6.35	7.96	9.86	12.05	14.65	15.75	17.60	19.20	21.00
50.0			7.36	9.14	11.20	13.60	14.65	16.35	17.90	19.50
55.0				8.40	10.30	12.55	13.50	15.10	16.55	18.05
60.0				7.64	9.41	11.45	12.35	13.85	15.15	16.55
65.0					8.48	10.35	11.20	12.55	13.75	15.05
70.0					7.54	9.23	9.98	11.20	12.30	13.50
75.0						8.08	8.75	9.84	10.85	11.90

Additional restrictions, please see application guidelines

Cond °C	Power, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
23.0	2.32									
25.0	2.39									
30.0	2.58	2.68	2.77	2.86						
35.0	2.80	2.91	3.02	3.11	3.20	3.31				
40.0		3.17	3.29	3.39	3.49	3.58	3.62	3.69	3.75	3.82
45.0		3.45	3.58	3.70	3.80	3.90	3.94	4.00	4.05	4.11
50.0			3.91	4.04	4.15	4.25	4.28	4.34	4.39	4.44
55.0				4.40	4.53	4.63	4.67	4.72	4.77	4.82
60.0				4.80	4.94	5.05	5.09	5.15	5.19	5.24
65.0					5.38	5.50	5.55	5.61	5.65	5.69
70.0					5.84	5.99	6.04	6.10	6.15	6.19
75.0						6.51	6.56	6.63	6.69	6.73

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
23.0	6.08									
25.0	6.20									
30.0	6.49	6.62	6.73	6.85						
35.0	6.77	6.91	7.03	7.14	7.25	7.37				
40.0		7.21	7.34	7.45	7.55	7.66	7.71	7.79	7.86	7.94
45.0		7.52	7.66	7.78	7.89	8.00	8.04	8.11	8.17	8.24
50.0			8.01	8.15	8.27	8.38	8.42	8.48	8.54	8.60
55.0				8.55	8.69	8.80	8.85	8.91	8.97	9.03
60.0				8.99	9.15	9.28	9.33	9.40	9.46	9.52
65.0					9.66	9.82	9.88	9.96	10.02	10.08
70.0					10.24	10.42	10.49	10.58	10.65	10.72
75.0						11.09	11.17	11.28	11.36	11.44

Additional restrictions, please see application guidelines

50 Hz

ZBD57KCE-TFD

R513A

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
23.0	40.50									
25.0	40.20									
30.0	39.60	50.00	62.50	77.30						
35.0	38.80	49.20	61.70	76.60	94.20	115.00				
40.0		48.40	60.90	75.70	93.30	114.00	123.00	138.50	152.00	167.00
45.0		47.50	59.90	74.70	92.20	113.00	122.00	137.00	151.00	165.50
50.0			58.80	73.50	90.80	111.50	120.50	135.50	149.50	164.50
55.0				72.10	89.30	110.00	119.00	134.00	148.00	163.00
60.0				70.50	87.60	108.00	117.00	132.00	146.00	161.00
65.0					85.60	106.00	115.00	130.00	144.00	159.00
70.0					83.40	103.50	112.50	127.50	141.50	157.00
75.0						101.00	110.00	125.00	139.50	155.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	21.4
Length/Width, mm	246/257
Height, mm	481
Net Weight, kg	43.1
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1 1/4
Oil Quantity, l	1.89
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)
Sound Pressure @ 1m (MT), dBA	68
Sound Power (MT), dBA	79
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
PED Category	1
Max. Low Side Internal Free Volume, l	6.3
Max. High Side Internal Free Volume, l	0.5
Max. Internal Free Volume, l	6.80
High Side PS gauge, bar	32
Low Side PS gauge, bar	20
Refrigerant's GWP	631
Refrigerant's classification	A1

Additional restrictions, please see application guidelines

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

Maximum Operating Current, A	15.9
Locked Rotor Current, A	102
Winding Resistance, ohm	1.72
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermistor
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Enclosure Class	IP66 With Molded Plug
Mounting Grommets	Hard Mounts for Paralleling
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Rotalock valves	suction and discharge

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

Additional restrictions, please see application guidelines