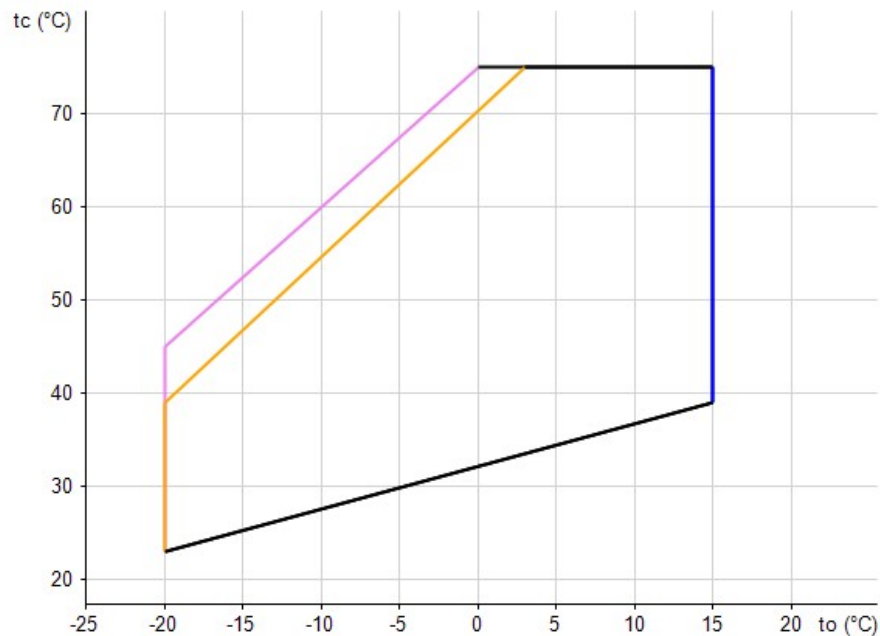




Minimum Evaporating Temp. With:

- 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	3.65									
25.0	3.57									
30.0	3.36	4.21	5.23	6.42						
35.0	3.14	3.97	4.94	6.09	7.42	8.96				
40.0		3.71	4.64	5.73	7.00	8.46	9.11	10.15	11.05	12.05
45.0		3.44	4.33	5.36	6.56	7.94	8.55	9.53	10.40	11.35
50.0			4.00	4.98	6.10	7.40	7.97	8.89	9.71	10.60
55.0				4.58	5.63	6.84	7.37	8.23	9.00	9.82
60.0				4.16	5.14	6.26	6.75	7.54	8.26	9.02
65.0					4.63	5.66	6.11	6.84	7.50	8.20
70.0					4.11	5.04	5.46	6.12	6.72	7.36
75.0						4.42	4.79	5.38	5.92	6.50

Additional restrictions, please see application guidelines

50 Hz

ZBD29KCE-TFD

R513A

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	1.16									
25.0	1.22									
30.0	1.39	1.40	1.42	1.42						
35.0	1.57	1.60	1.60	1.60	1.60	1.58				
40.0		1.80	1.80	1.80	1.80	1.78	1.76	1.75	1.74	1.72
45.0		2.01	2.03	2.03	2.02	2.00	1.98	1.96	1.94	1.92
50.0			2.26	2.26	2.25	2.23	2.21	2.19	2.17	2.15
55.0				2.52	2.50	2.48	2.46	2.44	2.41	2.39
60.0				2.80	2.78	2.74	2.73	2.70	2.67	2.64
65.0					3.08	3.04	3.02	2.98	2.95	2.92
70.0					3.40	3.35	3.33	3.29	3.25	3.22
75.0						3.69	3.66	3.62	3.58	3.54

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	3.38									
25.0	3.47									
30.0	3.67	3.69	3.70	3.69						
35.0	3.88	3.90	3.91	3.91	3.90	3.88				
40.0		4.11	4.13	4.13	4.12	4.10	4.09	4.07	4.05	4.03
45.0		4.34	4.36	4.36	4.35	4.33	4.32	4.30	4.28	4.26
50.0			4.60	4.60	4.59	4.57	4.55	4.53	4.51	4.49
55.0				4.87	4.85	4.82	4.81	4.78	4.76	4.73
60.0				5.17	5.15	5.11	5.09	5.06	5.03	5.00
65.0					5.48	5.43	5.41	5.37	5.34	5.30
70.0					5.86	5.80	5.78	5.73	5.69	5.64
75.0						6.23	6.19	6.14	6.09	6.04

Additional restrictions, please see application guidelines

50 Hz		ZBD29KCE-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	21.90										
25.0	21.80										
30.0	21.50	27.00	33.70	41.70							
35.0	21.10	26.70	33.40	41.40	50.90	62.00					
40.0		26.30	33.10	41.10	50.50	61.70	66.60	74.70	82.00	90.00	
45.0		25.70	32.60	40.60	50.10	61.20	66.20	74.30	81.70	89.60	
50.0			32.00	40.00	49.50	60.60	65.60	73.70	81.10	89.10	
55.0				39.30	48.70	59.90	64.90	73.00	80.40	88.50	
60.0				38.40	47.80	58.90	63.90	72.10	79.50	87.70	
65.0					46.70	57.80	62.80	71.00	78.50	86.70	
70.0					45.50	56.60	61.60	69.80	77.30	85.60	
75.0						55.20	60.20	68.40	76.10	84.50	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h

11.4

Length/Width, mm

243/243

Height, mm

463

Net Weight, kg

29.9

Rotalock Suction, inch

1 1/4

Rotalock Discharge, inch

1

Oil Quantity, l

1.36

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

63

Sound Power (MT), dBA

74

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

4.6

Max. High Side Internal Free Volume, l

0.5

Max. Internal Free Volume, l

5.10

High Side PS gauge, bar

32

Low Side PS gauge, bar

21

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	10
Locked Rotor Current, A	48
Winding Resistance, ohm	3.88
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Mounting Grommets	Standard
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ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Hard Mounts for Paralleling
Solenoid valve	Standard
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Valve Coil	220V
Valve Coil	24V AC
Solenoid Valve Kit	220 V Ac 12" lead Length
Solenoid Valve Kit	24 V Ac 12" lead Length
Digital Tubing Kit	220 V 0.3m Rotalock
Digital Tubing Kit	24 V 0.3m Rotalock
Digital Control Kit	EC2-552
Digital Control Kit	EC3-652
Digital Driver	EC3-D13

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