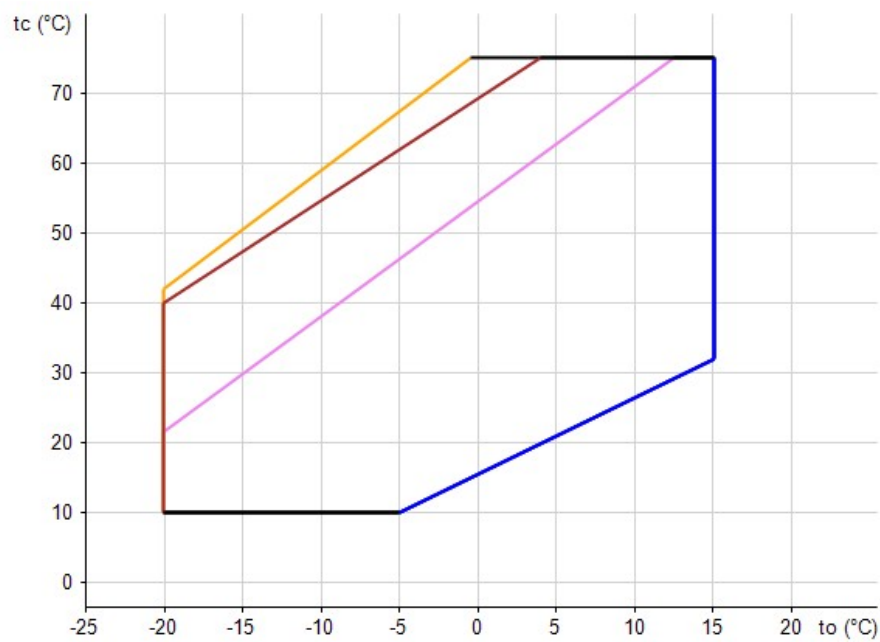




Minimum Evaporating Temp. With:

— 25 °C Suction Gas Return
 — 10 K Suction Superheat

— 25 °C Suction Gas Return with Voltage limit ± 0 %

— Maximum Evaporating Temperature

50 Hz	ZB19KCE-TFD	R134a
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Suction Return Temperature 18.3°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
10.0	2.11	2.64	3.29	4.07						
15.0	2.02	2.54	3.18	3.93						
20.0	1.94	2.44	3.06	3.79	4.65					
25.0	1.84	2.33	2.93	3.63	4.46	5.43	5.85			
30.0	1.76	2.23	2.80	3.47	4.27	5.20	5.60	6.26	6.85	
35.0	1.66	2.11	2.66	3.31	4.07	4.96	5.35	5.98	6.54	
40.0	1.57	2.00	2.52	3.14	3.87	4.71	5.09	5.68	6.22	
45.0		1.88	2.38	2.97	3.66	4.46	4.81	5.38	5.89	
50.0			2.23	2.79	3.44	4.19	4.53	5.07	5.55	
55.0				2.60	3.21	3.92	4.24	4.74	5.20	
60.0				2.42	2.98	3.65	3.94	4.41	4.84	
65.0					2.75	3.36	3.63	4.07	4.46	
70.0						3.07	3.32	3.72	4.09	
75.0						2.78	3.00	3.37	3.70	

Cond °C	Power, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	0.54	0.54	0.54	0.55						
15.0	0.62	0.61	0.61	0.62						
20.0	0.69	0.69	0.69	0.70	0.71					
25.0	0.77	0.77	0.78	0.78	0.79	0.80	0.80			
30.0	0.86	0.86	0.86	0.87	0.88	0.89	0.89	0.90	0.91	
35.0	0.95	0.96	0.96	0.97	0.98	0.99	0.99	1.00	1.01	
40.0	1.06	1.06	1.07	1.08	1.08	1.10	1.10	1.10	1.11	
45.0		1.18	1.19	1.20	1.21	1.22	1.22	1.23	1.23	
50.0			1.32	1.34	1.34	1.36	1.36	1.36	1.36	
55.0				1.48	1.50	1.50	1.51	1.52	1.52	
60.0				1.64	1.66	1.68	1.68	1.68	1.69	
65.0					1.84	1.86	1.86	1.88	1.88	
70.0						2.07	2.07	2.08	2.09	
75.0						2.30	2.30	2.31	2.32	

50 Hz

ZB19KCE-TFD

R134a

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
10.0	2.31	2.29	2.28	2.28						
15.0	2.37	2.35	2.34	2.34						
20.0	2.44	2.42	2.41	2.41	2.41					
25.0	2.51	2.50	2.49	2.49	2.49	2.51	2.52			
30.0	2.59	2.59	2.58	2.58	2.59	2.60	2.61	2.62	2.63	
35.0	2.69	2.69	2.69	2.70	2.70	2.71	2.72	2.73	2.74	
40.0	2.81	2.81	2.82	2.83	2.84	2.85	2.85	2.86	2.87	
45.0		2.96	2.97	2.98	2.99	3.00	3.01	3.02	3.02	
50.0			3.15	3.16	3.18	3.19	3.20	3.20	3.21	
55.0				3.37	3.39	3.41	3.41	3.42	3.43	
60.0				3.61	3.64	3.66	3.66	3.67	3.68	
65.0					3.92	3.94	3.95	3.96	3.97	
70.0						4.27	4.28	4.29	4.30	
75.0						4.64	4.65	4.66	4.67	

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
10.0	10.30	12.95	16.20	20.10						
15.0	10.25	12.90	16.20	20.10						
20.0	10.15	12.85	16.15	20.10	24.80					
25.0	10.05	12.75	16.10	20.10	24.80	30.30	32.80			
30.0	9.95	12.70	16.00	20.00	24.70	30.30	32.80	36.80	40.50	
35.0	9.84	12.55	15.90	19.90	24.60	30.20	32.70	36.80	40.40	
40.0	9.72	12.45	15.75	19.75	24.50	30.10	32.60	36.60	40.30	
45.0		12.30	15.60	19.60	24.30	29.90	32.40	36.50	40.20	
50.0			15.45	19.40	24.10	29.70	32.20	36.20	39.90	
55.0				19.15	23.90	29.40	31.90	36.00	39.60	
60.0				18.90	23.60	29.10	31.60	35.60	39.30	
65.0					23.20	28.70	31.20	35.20	38.90	
70.0						28.30	30.80	34.80	38.50	
75.0						27.90	30.30	34.30	38.00	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	6.83
Length/Width, mm	242/242
Height, mm	389
Net Weight, kg	25.8
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.12
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 (MT), dBA	55
Sound Power (MT), dBA	66
Sound Power with Sound Shell (MT), dBA	59
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
PED Category	1
Max. Internal Free Volume, l	2.50
High Side PS gauge, bar	32
Low Side PS gauge, bar	21
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
Refrigerant's GWP	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	6.5
Locked Rotor Current, A	32
Winding Resistance, ohm	5.8
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermodisk
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
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