



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								
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
30.0	8.13	10.30	12.90	15.95	19.45	21.00	23.50	25.80	28.10
35.0	7.73	9.78	12.25	15.20	18.60	20.10	22.50	24.70	27.00
40.0	7.33	9.26	11.60	14.40	17.70	19.15	21.50	23.60	25.80
45.0		8.73	10.95	13.60	16.75	18.10	20.40	22.40	24.50
50.0		8.20	10.25	12.75	15.75	17.05	19.15	21.10	23.10
55.0			9.60	11.90	14.70	15.95	17.95	19.75	21.70
60.0				11.05	13.65	14.80	16.70	18.40	20.20
65.0				10.25	12.60	13.70	15.45	17.00	18.75
70.0					11.55	12.55	14.15	15.60	17.20

50 Hz

ZR11M3E-TWD

R134a

Cond °C	Power, kW								
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
30.0	3.17	3.23	3.29	3.34	3.38	3.40	3.42	3.44	3.45
35.0	3.54	3.60	3.66	3.71	3.74	3.75	3.77	3.78	3.78
40.0	3.93	4.01	4.07	4.11	4.15	4.16	4.17	4.18	4.18
45.0		4.44	4.51	4.57	4.61	4.62	4.63	4.64	4.64
50.0		4.90	4.99	5.06	5.11	5.13	5.14	5.15	5.16
55.0			5.50	5.59	5.66	5.68	5.71	5.72	5.74
60.0				6.15	6.24	6.27	6.32	6.34	6.37
65.0				6.74	6.87	6.91	6.97	7.01	7.05
70.0					7.53	7.59	7.67	7.72	7.77

Cond °C	Current at 400 V, A								
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
30.0	9.23	9.24	9.25	9.26	9.31	9.34	9.40	9.47	9.55
35.0	9.54	9.55	9.55	9.56	9.59	9.61	9.66	9.71	9.78
40.0	9.89	9.92	9.92	9.93	9.94	9.96	9.99	10.03	10.09
45.0		10.35	10.36	10.37	10.38	10.39	10.41	10.44	10.49
50.0		10.85	10.87	10.88	10.89	10.90	10.92	10.94	10.98
55.0			11.46	11.49	11.50	11.51	11.52	11.54	11.57
60.0				12.18	12.20	12.21	12.22	12.24	12.27
65.0				12.96	13.00	13.01	13.03	13.05	13.07
70.0					13.90	13.92	13.94	13.97	13.99

Cond °C	Suction Mass Flow, g/s								
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
30.0	52.30	64.80	79.50	96.40	115.50	124.00	137.00	149.00	161.00
35.0	52.20	64.60	79.30	96.30	115.50	124.00	137.50	149.00	161.50
40.0	52.10	64.30	78.90	95.90	115.50	123.50	137.00	149.00	161.50
45.0		64.00	78.40	95.30	114.50	123.00	136.50	148.50	161.00
50.0		63.80	77.90	94.50	114.00	122.00	135.50	147.50	160.00
55.0			77.40	93.70	113.00	121.00	134.50	146.50	159.00
60.0				92.90	111.50	120.00	133.00	145.00	157.50
65.0				92.30	110.50	118.50	131.50	143.50	156.00
70.0					109.50	117.50	130.50	142.00	154.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	25.1
Length/Width, mm	319/357
Height, mm	525
Net Weight, kg	96
Gross Weight, kg	107
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Stub Suction, inch	1 3/8
Stub Discharge, inch	7/8
Oil Quantity, l	4.1
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	220 x 220 (8.5)
Sound Pressure @ 1m (HT), dBA	67
Sound Power (HT), dBA	78
Sound Power with Sound Shell (HT), dBA	66
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	7 / 54 / 18 °C at 50 Hz
PED Category	2
Max. Internal Free Volume, l	21.2
High Side PS gauge, bar	32
Low Side PS gauge, bar	20
Low Side TS Max., °C	52
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	20
Locked Rotor Current, A	123
Winding Resistance, ohm	1.04
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Mounting Grommets	Standard
Discharge Temperature Protection	Internal Thermistor

50 Hz

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ACCESSORIES OPTIONAL

<p>Crankcase Heater</p> <p>Oil Control System</p> <p>Sound Attenuation</p> <p>Mounting Grommets</p>	<p>49 W External</p> <p>ALCO Trax-Oil OM3</p> <p>Sound Shell (10dBA)</p> <p>Hard Mounts for Paralleling</p>
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MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
TWD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TWD	460 V / 3~ / 60 Hz	460		Y	1.04