



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	3.55	4.55	5.76	7.21	8.91	10.90	11.80	13.20		
35.0	3.33	4.29	5.45	6.84	8.48	10.40	11.25	12.60	13.80	
40.0	3.12	4.03	5.14	6.47	8.04	9.87	10.70	12.00	13.15	14.40
45.0		3.77	4.82	6.08	7.58	9.33	10.10	11.35	12.50	13.70
50.0		3.50	4.49	5.69	7.10	8.77	9.51	10.70	11.75	12.90
55.0			4.16	5.28	6.62	8.19	8.89	10.00	11.05	12.15
60.0				4.87	6.12	7.60	8.26	9.33	10.30	11.35
65.0				4.45	5.61	7.00	7.61	8.62	9.53	10.50
70.0					5.10	6.38	6.95	7.89	8.74	9.66
75.0					4.57	5.75	6.28	7.15	7.94	8.79

50 Hz

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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	1.78	1.78	1.80	1.80	1.82	1.84	1.85	1.86		
35.0	1.98	1.98	2.00	2.01	2.03	2.04	2.05	2.07	2.08	
40.0	2.19	2.21	2.22	2.24	2.25	2.27	2.28	2.29	2.30	2.31
45.0		2.45	2.47	2.49	2.51	2.53	2.53	2.54	2.55	2.56
50.0		2.71	2.74	2.77	2.79	2.81	2.82	2.83	2.84	2.84
55.0			3.04	3.07	3.10	3.12	3.13	3.14	3.15	3.16
60.0				3.42	3.45	3.47	3.48	3.49	3.50	3.51
65.0				3.79	3.83	3.86	3.87	3.89	3.89	3.90
70.0					4.25	4.29	4.30	4.32	4.33	4.34
75.0					4.72	4.76	4.78	4.80	4.81	4.82

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	5.48	5.46	5.46	5.46	5.47	5.50	5.51	5.54		
35.0	5.69	5.69	5.69	5.70	5.71	5.73	5.75	5.77	5.79	
40.0	5.93	5.95	5.96	5.98	5.99	6.02	6.03	6.04	6.06	6.08
45.0		6.25	6.28	6.30	6.33	6.35	6.36	6.38	6.39	6.41
50.0		6.61	6.65	6.69	6.72	6.74	6.75	6.77	6.78	6.79
55.0			7.08	7.13	7.17	7.20	7.21	7.23	7.24	7.25
60.0				7.64	7.69	7.73	7.74	7.76	7.77	7.78
65.0				8.22	8.28	8.33	8.35	8.37	8.38	8.39
70.0					8.96	9.02	9.04	9.06	9.08	9.09
75.0					9.72	9.80	9.82	9.85	9.87	9.88

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	23.30	29.20	36.30	44.50	53.90	64.70	69.40	76.90		
35.0	23.00	29.00	36.00	44.20	53.70	64.50	69.30	76.80	83.40	
40.0	22.70	28.70	35.70	43.90	53.40	64.30	69.00	76.50	83.20	90.20
45.0		28.30	35.30	43.60	53.10	63.90	68.60	76.10	82.80	89.90
50.0		28.00	34.90	43.10	52.60	63.40	68.10	75.70	82.30	89.40
55.0			34.50	42.60	52.00	62.80	67.50	75.10	81.80	88.90
60.0				42.00	51.40	62.10	66.80	74.40	81.10	88.20
65.0				41.40	50.60	61.30	66.00	73.60	80.30	87.40
70.0					49.80	60.50	65.20	72.70	79.40	86.50
75.0					49.00	59.50	64.20	71.70	78.40	85.60

### **COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, m³/h	14.4
Length/Width, mm	246/257
Height, mm	438
Net Weight, kg	37.5
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.9
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	61
Sound Power (MT), dBA	72
Sound Power with Sound Shell (MT), dBA	62
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	4.20
High Side PS gauge, bar	29
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	12.8
Locked Rotor Current, A	65.6
Winding Resistance, ohm	2.72
Default Enclosure Class	IP 21 (IEC 34)

### **ACCESSORIES INCLUDED**

Discharge Temperature Protection	Internal Thermodisk
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### **ACCESSORIES OPTIONAL**

Crankcase Heater	70 W External
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Rotalock valves	suction and discharge
Mounting Grommets	Standard

50 Hz

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## **MOTOR OPTIONS**

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