



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							
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	13.20	16.25	19.85	24.10				
15.0	12.55	15.60	19.20	23.40				
20.0	11.90	14.95	18.50	22.60	27.40			
25.0	11.15	14.20	17.75	21.80	26.40	31.70		
30.0	10.35	13.40	16.90	20.90	25.40	30.50	36.20	38.70
35.0		12.55	15.95	19.85	24.20	29.10	34.70	37.10
40.0			14.90	18.70	22.90	27.70	33.00	35.40
45.0				17.45	21.50	26.10	31.30	33.50
50.0				16.05	20.00	24.40	29.30	31.40
55.0					18.30	22.50	27.20	29.20
60.0						20.40	24.90	26.80

Cond °C	Power, kW							
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	3.12	3.14	3.22	3.34				
15.0	3.61	3.62	3.67	3.76				
20.0	4.18	4.17	4.20	4.27	4.38			
25.0	4.80	4.79	4.81	4.86	4.95	5.08		
30.0	5.49	5.48	5.49	5.54	5.61	5.72	5.86	5.93
35.0		6.22	6.24	6.28	6.35	6.45	6.57	6.63
40.0			7.05	7.10	7.17	7.26	7.37	7.43
45.0				7.98	8.05	8.14	8.26	8.31
50.0				8.92	9.01	9.11	9.22	9.27
55.0					10.00	10.15	10.25	10.30
60.0						11.25	11.40	11.45

Cond °C	Current at 400 V, A							
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	8.97	9.06	9.21	9.43				
15.0	10.07	10.11	10.21	10.35				
20.0	11.04	11.05	11.10	11.20	11.35			
25.0	11.91	11.90	11.93	11.99	12.09	12.25		
30.0	12.72	12.71	12.72	12.76	12.83	12.96	13.13	13.22
35.0		13.50	13.51	13.54	13.61	13.71	13.85	13.93
40.0			14.34	14.38	14.44	14.54	14.67	14.73
45.0				15.30	15.38	15.48	15.61	15.67
50.0				16.33	16.45	16.57	16.71	16.78
55.0					17.68	17.84	18.01	18.08
60.0						19.32	19.54	19.63

Cond °C	Suction Mass Flow, g/s							
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	60.80	75.20	92.40	113.00				
15.0	60.00	74.90	92.60	113.50				
20.0	58.90	74.40	92.60	114.00	138.50			
25.0	57.50	73.50	92.30	114.00	139.00	168.00		
30.0	55.60	72.30	91.60	114.00	139.50	169.00	203.00	218.00
35.0		70.60	90.40	113.00	139.00	169.00	204.00	219.00
40.0			88.60	112.00	138.50	169.00	204.00	219.00
45.0				110.00	137.00	168.00	203.00	219.00
50.0				107.00	134.50	166.00	202.00	218.00
55.0					131.00	163.50	200.00	216.00
60.0						159.50	197.50	214.00

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	28.8
Length/Width, mm	293/285
Height, mm	533
Net Weight, kg	61.7
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Oil Quantity, l	3.25
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)
PED Category	2
Max. Low Side Internal Free Volume, l	12.6
Max. High Side Internal Free Volume, l	1.5
Max. Internal Free Volume, l	14.1
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
Refrigerant's GWP	1397
Refrigerant's classification	A1

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

Maximum Operating Current, A	20.4
Locked Rotor Current, A	118
Winding Resistance, ohm	1.27
Default Enclosure Class	IP 21 (IEC 34)

### **ACCESSORIES INCLUDED**

Solenoid valve	Standard
----------------	----------

### **ACCESSORIES OPTIONAL**

Crankcase Heater	66 W External
Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Standard
Mounting Grommets	Hard Mounts for Paralleling
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Valve Coil	220V
Valve Coil	24V AC
Digital Control Kit	EC2-552
Digital Control Kit	EC3-652
Digital Driver	EC3-D13

### **MOTOR OPTIONS**

<i><b>Motor Code</b></i>	<i><b>Power Supply</b></i>	<i><b>Nominal Voltage, V</b></i>	<i><b>Start Connection</b></i>	<i><b>DOL Connection</b></i>	<i><b>Amps Factor</b></i>
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