



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 0 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Return Temperature 18.3°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

| Cond °C | Cooling Capacity, kW | | | | | | | | | | |
|------------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | -40.0 | -35.0 | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 |
| 10.0 | 3.63 | 4.46 | 5.42 | 6.54 | 7.81 | 9.24 | | | | | |
| 15.0 | 3.59 | 4.44 | 5.41 | 6.54 | 7.81 | 9.24 | 10.85 | | | | |
| 20.0 | 3.53 | 4.39 | 5.38 | 6.50 | 7.77 | 9.19 | 10.80 | 12.55 | | | |
| 25.0 | 3.46 | 4.32 | 5.30 | 6.42 | 7.69 | 9.10 | 10.65 | 12.40 | 14.30 | | |
| 30.0 | 3.36 | 4.22 | 5.20 | 6.31 | 7.56 | 8.95 | 10.50 | 12.20 | 14.05 | 16.05 | 16.95 |
| 35.0 | 3.24 | 4.10 | 5.07 | 6.16 | 7.39 | 8.75 | 10.25 | 11.90 | 13.75 | 15.70 | 16.55 |
| 40.0 | 3.10 | 3.95 | 4.90 | 5.98 | 7.18 | 8.51 | 9.98 | 11.60 | 13.35 | 15.30 | 16.10 |
| 45.0 | | 3.78 | 4.71 | 5.76 | 6.92 | 8.22 | 9.64 | 11.20 | 12.95 | 14.80 | 15.60 |
| 50.0 | | 3.59 | 4.49 | 5.50 | 6.63 | 7.88 | 9.26 | 10.75 | 12.40 | 14.25 | 15.00 |
| 55.0 | | | 4.24 | 5.21 | 6.29 | 7.49 | 8.82 | 10.25 | 11.85 | 13.60 | 14.35 |
| 60.0 | | | | | | 7.06 | 8.32 | 9.71 | 11.25 | 12.90 | 13.60 |

| Cond °C | Power, kW | | | | | | | | | | |
|------------|-----------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| | -40.0 | -35.0 | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 |
| 10.0 | 1.53 | 1.58 | 1.64 | 1.68 | 1.71 | 1.72 | | | | | |
| 15.0 | 1.70 | 1.76 | 1.82 | 1.88 | 1.92 | 1.96 | 1.97 | | | | |
| 20.0 | 1.88 | 1.94 | 2.01 | 2.08 | 2.14 | 2.19 | 2.22 | 2.23 | | | |
| 25.0 | 2.07 | 2.14 | 2.22 | 2.30 | 2.37 | 2.43 | 2.48 | 2.51 | 2.52 | | |
| 30.0 | 2.30 | 2.37 | 2.46 | 2.54 | 2.62 | 2.70 | 2.76 | 2.81 | 2.84 | 2.84 | 2.84 |
| 35.0 | 2.56 | 2.64 | 2.72 | 2.81 | 2.90 | 2.99 | 3.06 | 3.13 | 3.17 | 3.20 | 3.20 |
| 40.0 | 2.87 | 2.95 | 3.03 | 3.13 | 3.22 | 3.31 | 3.40 | 3.47 | 3.54 | 3.58 | 3.59 |
| 45.0 | | 3.30 | 3.39 | 3.48 | 3.58 | 3.68 | 3.78 | 3.86 | 3.94 | 3.99 | 4.01 |
| 50.0 | | 3.72 | 3.80 | 3.90 | 4.00 | 4.10 | 4.20 | 4.30 | 4.38 | 4.45 | 4.48 |
| 55.0 | | | 4.28 | 4.37 | 4.47 | 4.58 | 4.68 | 4.79 | 4.88 | 4.97 | 4.99 |
| 60.0 | | | | | | 5.12 | 5.23 | 5.34 | 5.44 | 5.54 | 5.57 |

| Cond °C | Current at 400 V, A | | | | | | | | | | |
|------------|---------------------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| | -40.0 | -35.0 | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 |
| 10.0 | 4.27 | 4.33 | 4.39 | 4.44 | 4.48 | 4.51 | | | | | |
| 15.0 | 4.40 | 4.46 | 4.52 | 4.59 | 4.64 | 4.68 | 4.70 | | | | |
| 20.0 | 4.56 | 4.63 | 4.70 | 4.77 | 4.84 | 4.90 | 4.93 | 4.94 | | | |
| 25.0 | 4.77 | 4.84 | 4.91 | 5.00 | 5.08 | 5.15 | 5.20 | 5.23 | 5.23 | | |
| 30.0 | 5.02 | 5.09 | 5.17 | 5.26 | 5.36 | 5.44 | 5.51 | 5.56 | 5.59 | 5.57 | 5.56 |
| 35.0 | 5.32 | 5.39 | 5.48 | 5.58 | 5.68 | 5.78 | 5.87 | 5.94 | 5.99 | 6.00 | 6.00 |
| 40.0 | 5.67 | 5.74 | 5.84 | 5.94 | 6.06 | 6.17 | 6.28 | 6.37 | 6.44 | 6.48 | 6.49 |
| 45.0 | | 6.15 | 6.25 | 6.36 | 6.49 | 6.62 | 6.74 | 6.85 | 6.94 | 7.01 | 7.03 |
| 50.0 | | 6.62 | 6.72 | 6.84 | 6.98 | 7.12 | 7.25 | 7.39 | 7.50 | 7.59 | 7.62 |
| 55.0 | | | 7.25 | 7.38 | 7.52 | 7.68 | 7.83 | 7.98 | 8.12 | 8.24 | 8.28 |
| 60.0 | | | | | | 8.30 | 8.48 | 8.64 | 8.80 | 8.95 | 9.00 |

| Cond °C | Suction Mass Flow, g/s | | | | | | | | | | |
|------------|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| | -40.0 | -35.0 | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 |
| 10.0 | 16.25 | 20.60 | 25.80 | 32.10 | 39.70 | 48.60 | | | | | |
| 15.0 | 16.20 | 20.60 | 25.90 | 32.30 | 39.90 | 48.90 | 59.60 | | | | |
| 20.0 | 16.05 | 20.50 | 25.90 | 32.40 | 40.00 | 49.10 | 59.70 | 72.30 | | | |
| 25.0 | 15.85 | 20.40 | 25.80 | 32.30 | 40.00 | 49.00 | 59.70 | 72.20 | 87.00 | | |
| 30.0 | 15.55 | 20.10 | 25.60 | 32.10 | 39.80 | 48.80 | 59.40 | 71.90 | 86.60 | 104.00 | 112.00 |
| 35.0 | 15.20 | 19.80 | 25.30 | 31.80 | 39.40 | 48.40 | 59.00 | 71.40 | 86.10 | 103.50 | 111.00 |
| 40.0 | 14.80 | 19.40 | 24.80 | 31.30 | 38.90 | 47.90 | 58.40 | 70.70 | 85.30 | 102.50 | 110.50 |
| 45.0 | | 18.85 | 24.30 | 30.70 | 38.20 | 47.10 | 57.50 | 69.80 | 84.30 | 101.50 | 109.00 |
| 50.0 | | 18.25 | 23.60 | 29.90 | 37.40 | 46.10 | 56.50 | 68.60 | 83.00 | 100.00 | 108.00 |
| 55.0 | | | 22.80 | 29.00 | 36.30 | 45.00 | 55.20 | 67.20 | 81.50 | 98.50 | 106.00 |
| 60.0 | | | | | | 43.60 | 53.60 | 65.50 | 79.70 | 96.60 | 104.50 |

COMPRESSOR MECHANICAL AND PHYSICAL DATA

| | |
|--|--|
| Displacement @ 50 Hz, m ³ /h | 11.7 |
| Length/Width, mm | 246/251 |
| Height, mm | 442 |
| Net Weight, kg | 38 |
| Gross Weight, kg | 41 |
| Rotalock Suction, inch | 1 1/4 |
| Rotalock Discharge, inch | 1 |
| Oil Quantity, l | 1.89 |
| 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 (LT), dBA | 63 |
| Sound Power (LT), dBA | 74 |
| Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed) | -35 / 40 / 20 °C at 50 Hz |
| PED Category | 1 |
| Max. Internal Free Volume, l | 6.10 |
| High Side PS gauge, bar | 28.8 |
| Low Side PS gauge, bar | 21 |
| Low Side TS Max., °C | 50 |
| Refrigerant's GWP | 3922 |
| Refrigerant's classification | A1 |

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

| | |
|------------------------------|----------------|
| Maximum Operating Current, A | 9 |
| Locked Rotor Current, A | 64 |
| Winding Resistance, ohm | 2.75 |
| Default Enclosure Class | IP 21 (IEC 34) |

ACCESSORIES INCLUDED

| | |
|----------------------------------|---------------------------|
| Discharge Temperature Protection | Discharge line thermostat |
| Mounting Grommets | Standard |

ACCESSORIES OPTIONAL

| | |
|-----------------------|-------------------|
| Crankcase Heater | 70 W External |
| Current Sensing Relay | External |
| Oil Control System | ALCO Trax-Oil OM3 |

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 |
| TFE | 500 V / 3~ / 50 Hz | 500 | | Y | 0.80 |
| TFD | 460 V / 3~ / 60 Hz | 460 | | Y | 1.04 |
| TF5 | 200-230 V / 3~ / 60 Hz | 230 | | Y | 2.09 |
| TFE | 575 V / 3~ / 60 Hz | 575 | | Y | 0.80 |
| TF7 | 380 V / 3~ / 60 Hz | 380 | | Y | 1.26 |