



Minimum Evaporating Temp. With:

- 20 °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 |
| 4.0 | 15.15 | 18.15 | 22.20 | 27.10 | 32.80 | 39.30 |
| 5.0 | 15.15 | 18.15 | 22.10 | 27.10 | 32.80 | 39.20 |
| 10.0 | 15.20 | 18.10 | 22.00 | 26.80 | 32.30 | 38.50 |
| 15.0 | 15.15 | 18.00 | 21.80 | 26.40 | 31.80 | 37.80 |
| 20.0 | 15.05 | 17.85 | 21.50 | 26.00 | 31.20 | 37.00 |
| 25.0 | 14.90 | 17.60 | 21.20 | 25.50 | 30.60 | 36.20 |
| 30.0 | 14.65 | 17.30 | 20.80 | 25.00 | 29.90 | 35.40 |
| 35.0 | 14.30 | 16.90 | 20.40 | 24.50 | 29.20 | 34.50 |
| 40.0 | 13.90 | 16.50 | 19.85 | 23.90 | 28.50 | 33.60 |
| 45.0 | | 16.00 | 19.30 | 23.20 | 27.70 | 32.70 |
| 50.0 | | 15.45 | 18.70 | 22.50 | 26.90 | 31.70 |
| 54.4 | | | 18.10 | 21.90 | 26.20 | 30.80 |

| Cond °C | Power, kW | | | | | |
|------------|-----------|-------|-------|-------|-------|-------|
| | -40.0 | -35.0 | -30.0 | -25.0 | -20.0 | -15.0 |
| 4.0 | 5.62 | 6.04 | 6.40 | 6.70 | 6.97 | 7.23 |
| 5.0 | 5.66 | 6.09 | 6.45 | 6.76 | 7.04 | 7.30 |
| 10.0 | 6.12 | 6.59 | 6.99 | 7.35 | 7.67 | 7.99 |
| 15.0 | 6.63 | 7.15 | 7.60 | 8.00 | 8.38 | 8.74 |
| 20.0 | 7.22 | 7.78 | 8.28 | 8.73 | 9.15 | 9.56 |
| 25.0 | 7.89 | 8.49 | 9.03 | 9.54 | 10.00 | 10.45 |
| 30.0 | 8.64 | 9.28 | 9.88 | 10.45 | 10.95 | 11.45 |
| 35.0 | 9.47 | 10.15 | 10.80 | 11.40 | 11.95 | 12.50 |
| 40.0 | 10.40 | 11.15 | 11.80 | 12.45 | 13.10 | 13.70 |
| 45.0 | | 12.20 | 12.95 | 13.60 | 14.30 | 14.95 |
| 50.0 | | 13.40 | 14.15 | 14.90 | 15.65 | 16.35 |
| 54.4 | | | 15.35 | 16.15 | 16.90 | 17.65 |

| Cond °C | Current at 400 V, A | | | | | |
|------------|---------------------|-------|-------|-------|-------|-------|
| | -40.0 | -35.0 | -30.0 | -25.0 | -20.0 | -15.0 |
| 4.0 | 11.17 | 11.55 | 11.88 | 12.14 | 12.37 | 12.58 |
| 5.0 | 11.21 | 11.60 | 11.93 | 12.20 | 12.44 | 12.65 |
| 10.0 | 11.62 | 12.06 | 12.46 | 12.80 | 13.10 | 13.39 |
| 15.0 | 12.11 | 12.61 | 13.07 | 13.48 | 13.85 | 14.21 |
| 20.0 | 12.69 | 13.25 | 13.77 | 14.25 | 14.70 | 15.13 |
| 25.0 | 13.38 | 14.00 | 14.58 | 15.13 | 15.65 | 16.15 |
| 30.0 | 14.16 | 14.85 | 15.51 | 16.13 | 16.70 | 17.28 |
| 35.0 | 15.06 | 15.82 | 16.55 | 17.23 | 17.88 | 18.53 |
| 40.0 | 16.08 | 16.93 | 17.72 | 18.46 | 19.19 | 19.92 |
| 45.0 | | 18.16 | 19.02 | 19.84 | 20.64 | 21.44 |
| 50.0 | | 19.55 | 20.47 | 21.38 | 22.26 | 23.14 |
| 54.4 | | | 21.92 | 22.87 | 23.82 | 24.76 |

| Cond °C | Suction Mass Flow, g/s | | | | | |
|------------|------------------------|-------|--------|--------|--------|--------|
| | -40.0 | -35.0 | -30.0 | -25.0 | -20.0 | -15.0 |
| 4.0 | 70.20 | 89.30 | 111.50 | 137.50 | 168.50 | 205.00 |
| 5.0 | 70.20 | 89.20 | 111.50 | 137.50 | 168.50 | 205.00 |
| 10.0 | 69.90 | 88.90 | 111.00 | 137.00 | 168.00 | 204.00 |
| 15.0 | 69.50 | 88.40 | 110.50 | 136.50 | 167.50 | 204.00 |
| 20.0 | 69.20 | 88.00 | 110.00 | 136.00 | 166.50 | 203.00 |
| 25.0 | 68.80 | 87.50 | 109.50 | 135.50 | 166.00 | 202.00 |
| 30.0 | 68.40 | 87.00 | 109.00 | 134.50 | 165.00 | 201.00 |
| 35.0 | 68.00 | 86.40 | 108.00 | 133.50 | 164.00 | 200.00 |
| 40.0 | 67.50 | 85.80 | 107.00 | 132.50 | 163.00 | 199.00 |
| 45.0 | | 85.10 | 106.50 | 131.50 | 162.00 | 197.50 |
| 50.0 | | 84.30 | 105.50 | 130.50 | 160.50 | 196.00 |
| 54.4 | | | 104.50 | 129.50 | 159.00 | 194.50 |

COMPRESSOR MECHANICAL AND PHYSICAL DATA

| | |
|--|--|
| Displacement @ 50 Hz, m ³ /h | 48.3 |
| Length/Width, mm | 280/280 |
| Height, mm | 552 |
| Net Weight, kg | 66.2 |
| Rotalock Suction, inch | 1 3/4 |
| Rotalock Discharge, inch | 1 1/4 |
| Oil Quantity, l | 3.37 |
| 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 (0) |
| Sound Pressure @ 1m (LT), dBA | 77 |
| Sound Power (LT), dBA | 88 |
| Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed) | -35 / 40 / 20 °C at 50 Hz |
| PED Category | 2 |
| Max. Internal Free Volume, l | 13.3 |
| 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 | 3922 |
| Refrigerant's classification | A1 |

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

| | |
|------------------------------|----------------|
| Maximum Operating Current, A | 31 |
| Locked Rotor Current, A | 168 |
| Winding Resistance, ohm | 0.78 |
| Default Enclosure Class | IP 54 (IEC 34) |

ACCESSORIES INCLUDED

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

ACCESSORIES OPTIONAL

| | |
|--------------------|-----------------------|
| Crankcase Heater | 93 W External |
| Liquid Injection | DTC Valve |
| Oil Control System | ALCO Trax-Oil OM3 |
| Sound Attenuation | Sound Shell |
| 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 |
| TFC | 200-240 V / 3~ / 50 Hz | 200 | | Y | 1.00 |
| TFD | 460 V / 3~ / 60 Hz | 460 | | Y | 1.04 |
| TFC | 208-230 V / 3~ / 60 Hz | 220 | | Y | 2.18 |