



Minimum Evaporating Temp. With:  
█ 25 °C Suction Gas Return  
█ Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

Evaporating Temperature, °C

Liquid Subcooling 0.0K

| Cond<br>°C | Cooling Capacity, kW |       |       |       |       |       |       |
|------------|----------------------|-------|-------|-------|-------|-------|-------|
|            | 50.0-                | 45.0- | 40.0- | 35.0- | 30.0- | 25.0- | 20.0- |
| 25.0       | 10.55                | 13.55 | 17.15 | 21.60 | 26.80 | 33.10 | 40.40 |
| 30.0       | 10.35                | 13.30 | 16.90 | 21.30 | 26.50 | 32.70 | 39.90 |
| 35.0       | 10.05                | 13.00 | 16.60 | 20.90 | 26.10 | 32.20 | 39.40 |
| 40.0       | 9.74                 | 12.65 | 16.25 | 20.50 | 25.60 | 31.70 | 38.90 |
| 45.0       | 9.36                 | 12.25 | 15.80 | 20.00 | 25.10 | 31.10 | 38.20 |
| 50.0       |                      | 11.80 | 15.30 | 19.50 | 24.50 | 30.50 | 37.50 |
| 55.0       |                      | 11.25 | 14.70 | 18.85 | 23.80 | 29.70 | 36.70 |

| Cond<br>°C | Power, kW |       |       |       |       |       |       |
|------------|-----------|-------|-------|-------|-------|-------|-------|
|            | 50.0-     | 45.0- | 40.0- | 35.0- | 30.0- | 25.0- | 20.0- |
| 25.0       | 8.41      | 9.48  | 10.65 | 11.85 | 13.10 | 14.40 | 15.70 |
| 30.0       | 8.86      | 10.00 | 11.25 | 12.60 | 14.00 | 15.40 | 16.90 |
| 35.0       | 9.31      | 10.55 | 11.90 | 13.35 | 14.90 | 16.50 | 18.10 |
| 40.0       | 9.73      | 11.10 | 12.55 | 14.15 | 15.85 | 17.60 | 19.35 |
| 45.0       | 10.15     | 11.60 | 13.20 | 14.95 | 16.80 | 18.70 | 20.70 |
| 50.0       |           | 12.10 | 13.85 | 15.75 | 17.75 | 19.85 | 22.00 |
| 55.0       |           | 12.55 | 14.45 | 16.50 | 18.70 | 21.00 | 23.40 |

| Cond<br>°C | Current at 400 V, A |       |       |       |       |       |       |
|------------|---------------------|-------|-------|-------|-------|-------|-------|
|            | 50.0-               | 45.0- | 40.0- | 35.0- | 30.0- | 25.0- | 20.0- |
| 25.0       | 18.14               | 19.39 | 20.79 | 22.31 | 23.93 | 25.61 | 27.33 |
| 30.0       | 18.66               | 20.03 | 21.57 | 23.25 | 25.05 | 26.94 | 28.89 |
| 35.0       | 19.19               | 20.69 | 22.38 | 24.24 | 26.24 | 28.35 | 30.55 |
| 40.0       | 19.69               | 21.34 | 23.21 | 25.26 | 27.48 | 29.83 | 32.28 |
| 45.0       | 20.17               | 21.98 | 24.04 | 26.30 | 28.75 | 31.36 | 34.09 |
| 50.0       |                     | 22.60 | 24.86 | 27.35 | 30.05 | 32.93 | 35.96 |
| 55.0       |                     | 23.19 | 25.67 | 28.40 | 31.37 | 34.53 | 37.87 |

| Cond<br>°C | Mass Flow, g/s |       |       |       |        |        |        |
|------------|----------------|-------|-------|-------|--------|--------|--------|
|            | 50.0-          | 45.0- | 40.0- | 35.0- | 30.0-  | 25.0-  | 20.0-  |
| 25.0       | 43.30          | 56.60 | 73.60 | 94.80 | 121.50 | 154.50 | 195.50 |
| 30.0       | 42.50          | 55.90 | 72.80 | 94.00 | 120.50 | 153.50 | 194.50 |
| 35.0       | 41.60          | 54.90 | 71.80 | 93.00 | 119.50 | 152.50 | 193.00 |
| 40.0       | 40.50          | 53.80 | 70.60 | 91.70 | 118.00 | 151.00 | 192.00 |
| 45.0       | 39.10          | 52.40 | 69.10 | 90.10 | 116.50 | 149.00 | 190.00 |
| 50.0       |                | 50.60 | 67.20 | 88.10 | 114.50 | 147.00 | 187.50 |
| 55.0       |                | 48.40 | 64.90 | 85.70 | 112.00 | 144.50 | 185.00 |

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

|   |  |
|---|--|
| Number of cylinders                     | 6  |
| Displacement @ 50 Hz, m <sup>3</sup> /h | 84.7   |
| Bore/Stroke, mm                         | 74.6/55.6                                    |
| Length/Width, mm                        | 755/585                                      |
| Height, mm                              | 630  |
| Net Weight, kg                          | 247  |
| Gross Weight, kg                        | 277  |
| Suction, inch                           | 1 5/8  |
| Discharge, inch                         | 1 3/8  |
| Oil Quantity, l                         | 6.8  |
| Oil type (original charge)              | POE RL32-3MAF                                |
| Oil type (approved oils)                | POE RL32-3MAF, POE MOBIL<br>EAL Arctic 22 CC |
| Base mounting (hole dia), mm            | 381 x 305 (18.0)                             |
| High Side PS, bar(g)                    | 32.5   |
| Low Side PS, bar(g)                     | 22.5   |
| Refrigerant's GWP                       | 1810   |
| Refrigerant's classification            | A1   |

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

|                              |                |
|------------------------------|----------------|
| Maximum Operating Current, A | 42.1           |
| Locked Rotor Current, A      | 197            |
| Default Enclosure Class      | IP 54 (IEC 34) |

**ACCESSORIES INCLUDED**

|                     |                      |
|---------------------|----------------------|
| Oil Pressure Switch | OPS2 Sensor          |
| Mounting Springs    | 4                    |
| Liquid Subcooler    | Plate Heat Exchanger |
| Deep Oil Sump       | Mounted              |

**ACCESSORIES OPTIONAL**

|                     |                        |
|---------------------|------------------------|
| Crankcase Heater    | 70 W Internal          |
| Crankcase Heater    | 100 W Internal         |
| Crankcase Heater    | 200 W Internal         |
| Enclosure Class     | IP 56                  |
| Oil Pressure Switch | OPS2 Electronic Switch |
| Adapter Kit         | For Parallel Operation |
| Oil Control System  | ALCO Trax-Oil OM3      |

**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> |
|-------------------|------------------------|---------------------------|-------------------------|-----------------------|--------------------|
| AWM               | 380-420 V / 3~ / 50 Hz | 400                       | YYY                     | Y                     | 1.00               |
| EWL               | 220-240 V / 3~ / 50 Hz | 230                       | Y/DELTA                 | DELTA                 | 1.73               |
| EWL               | 380-420 V / 3~ / 50 Hz | 400                       |                         | Y                     | 1.00               |
| EWM               | 380-420 V / 3~ / 50 Hz | 400                       | Y/DELTA                 | DELTA                 | 1.00               |
| EWY               | 500-550 V / 3~ / 50 Hz | 525                       | Y/DELTA                 | DELTA                 | 0.76               |
| AWR               | 220-240 V / 3~ / 50 Hz | 230                       | YYY                     | Y                     | 1.73               |
| AWY               | 500-550 V / 3~ / 50 Hz | 525                       | YYY                     | Y                     | 0.76               |
| TWY               | 500-550 V / 3~ / 50 Hz | 525                       |                         | DELTA                 | 0.76               |
| EWK               | 220-240 V / 3~ / 60 Hz | 230                       | Y/DELTA                 | DELTA                 | 2.10               |
| EWK               | 380-420 V / 3~ / 60 Hz | 380                       |                         | Y                     | 1.20               |
| EWD               | 440-480 V / 3~ / 60 Hz | 460                       | Y/DELTA                 | DELTA                 | 1.00               |
| AWC               | 208-230 V / 3~ / 60 Hz | 230                       | YYY                     | Y                     | 2.19               |
| AWD               | 440-480 V / 3~ / 60 Hz | 460                       | YYY                     | Y                     | 1.00               |