



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 |       |       |       |       |       |       |       |       |
|------------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
|            | 60.0-                | 55.0- | 50.0- | 45.0- | 40.0- | 35.0- | 30.0- | 25.0- | 20.0- |
| 30.0       | 6.29                 | 8.35  | 10.85 | 13.75 | 17.10 | 20.90 | 25.20 | 30.00 | 35.20 |
| 35.0       | 6.16                 | 8.19  | 10.60 | 13.45 | 16.70 | 20.40 | 24.60 | 29.10 | 34.10 |
| 40.0       | 6.02                 | 8.01  | 10.40 | 13.15 | 16.30 | 19.85 | 23.90 | 28.30 | 33.10 |
| 45.0       | 5.87                 | 7.82  | 10.15 | 12.80 | 15.85 | 19.30 | 23.10 | 27.40 | 32.00 |
| 50.0       | 5.71                 | 7.61  | 9.85  | 12.45 | 15.40 | 18.70 | 22.40 | 26.40 | 30.80 |
| 55.0       | 5.51                 | 7.37  | 9.54  | 12.05 | 14.85 | 18.05 | 21.60 | 25.40 |       |

| Cond<br>°C | Power, kW |       |       |       |       |       |       |       |       |
|------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
|            | 60.0-     | 55.0- | 50.0- | 45.0- | 40.0- | 35.0- | 30.0- | 25.0- | 20.0- |
| 30.0       | 7.28      | 8.49  | 9.67  | 10.80 | 11.95 | 13.10 | 14.25 | 15.40 | 16.60 |
| 35.0       | 7.62      | 8.89  | 10.15 | 11.40 | 12.65 | 13.90 | 15.15 | 16.45 | 17.80 |
| 40.0       | 8.00      | 9.32  | 10.65 | 11.95 | 13.30 | 14.70 | 16.10 | 17.50 | 19.00 |
| 45.0       | 8.42      | 9.80  | 11.20 | 12.60 | 14.05 | 15.50 | 17.00 | 18.55 | 20.20 |
| 50.0       | 8.90      | 10.30 | 11.75 | 13.25 | 14.75 | 16.35 | 17.95 | 19.65 | 21.40 |
| 55.0       | 9.42      | 10.85 | 12.35 | 13.90 | 15.50 | 17.20 | 18.90 | 20.70 |       |

50Hz

D6TH-200X SUB

R404A Dew Point

| Cond<br>°C | Current at 400 V, A |       |       |       |       |       |       |       |       |
|------------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|
|            | 60.0-               | 55.0- | 50.0- | 45.0- | 40.0- | 35.0- | 30.0- | 25.0- | 20.0- |
| 30.0       | 16.82               | 18.31 | 19.78 | 21.26 | 22.76 | 24.32 | 25.96 | 27.70 | 29.58 |
| 35.0       | 17.20               | 18.77 | 20.35 | 21.97 | 23.64 | 25.40 | 27.27 | 29.27 | 31.43 |
| 40.0       | 17.64               | 19.28 | 20.97 | 22.73 | 24.58 | 26.54 | 28.63 | 30.89 | 33.35 |
| 45.0       | 18.14               | 19.85 | 21.65 | 23.55 | 25.57 | 27.73 | 30.06 | 32.58 | 35.33 |
| 50.0       | 18.71               | 20.49 | 22.40 | 24.44 | 26.63 | 28.99 | 31.56 | 34.34 | 37.38 |
| 55.0       | 19.38               | 21.21 | 23.22 | 25.39 | 27.76 | 30.33 | 33.12 | 36.17 |       |

| Cond<br>°C | Mass Flow, g/s |       |       |       |       |        |        |        |        |
|------------|----------------|-------|-------|-------|-------|--------|--------|--------|--------|
|            | 60.0-          | 55.0- | 50.0- | 45.0- | 40.0- | 35.0-  | 30.0-  | 25.0-  | 20.0-  |
| 30.0       | 27.50          | 37.50 | 50.10 | 65.60 | 84.30 | 107.00 | 133.50 | 164.50 | 201.00 |
| 35.0       | 27.30          | 37.30 | 49.80 | 65.10 | 83.60 | 105.50 | 131.50 | 162.50 | 198.00 |
| 40.0       | 27.00          | 37.00 | 49.30 | 64.40 | 82.60 | 104.50 | 130.00 | 159.50 | 194.50 |
| 45.0       | 26.70          | 36.60 | 48.80 | 63.60 | 81.50 | 102.50 | 127.50 | 157.00 | 190.50 |
| 50.0       | 26.20          | 36.00 | 48.00 | 62.60 | 80.10 | 101.00 | 125.00 | 153.50 | 186.50 |
| 55.0       | 25.60          | 35.30 | 47.10 | 61.30 | 78.40 | 98.50  | 122.00 | 149.50 |        |

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

|   |  |
|---|--|
| Number of cylinders                     | 6  |
| Displacement @ 50 Hz, m <sup>3</sup> /h | 70.8   |
| Bore/Stroke, mm                         | 68.2/55.5                                    |
| Length/Width, mm                        | 755/585                                      |
| Height, mm                              | 575  |
| Net Weight, kg                          | 222  |
| Gross Weight, kg                        | 252  |
| Suction, inch                           | 1 5/8  |
| Discharge, inch                         | 1 3/8  |
| Oil Quantity, l                         | 3.3  |
| 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                       | 3922   |
| Refrigerant's classification            | A1   |

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

|                              |                |
|------------------------------|----------------|
| Maximum Operating Current, A | 37.7           |
| Locked Rotor Current, A      | 173            |
| Default Enclosure Class      | IP 54 (IEC 34) |

**ACCESSORIES INCLUDED**

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

**ACCESSORIES OPTIONAL**

|                     |                        |
|---------------------|------------------------|
| Enclosure Class     | IP 56                  |
| Oil Pressure Switch | OPS2 Electronic Switch |
| Deep Oil Sump       | Mounted                |
| 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               |