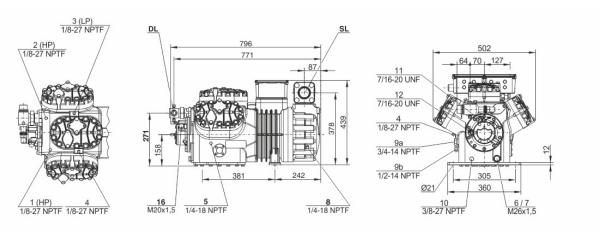


# **Technical Data: 6GE-40Y**

## **Dimensions and Connections**



#### **Technical Data**

| Te |  |  |  |
|----|--|--|--|
|    |  |  |  |

Displacement (1450 RPM 50Hz) 126,8 m<sup>3</sup>/h Displacement (1750 RPM 60Hz) 153,0 m<sup>3</sup>/h

No. of cylinder x bore x stroke 6 x 75 mm x 55 mm 240 kg

Weight

19 / 32 bar Max. pressure (LP/HP) Connection suction line 54 mm - 2 1/8" Connection discharge line 35 mm - 1 3/8"

Oil type R134a/R407C/R404A/R507A/R407A/R407F BSE32(Standard) | R134a tc>70°C: BSE55 (Option)

Oil type R22 (R12/R502)

Oil type R1234yf Oil type R1234ze

B5.2(Option) BSE32 (Standard) | R1234yf tc>70°C : BSE55 (Option)

BSE55 (Standard) | to>15°C: BSE85K (Option) | tc>70°C:

BSE85K (Option)

Standard

BSE32 (Standard)

# Ölfüllung R454C/R455A

### Motor data

Motor version

Motor voltage (more on request) 380-420V PW-3-50Hz

Max operating current 73.9 A Winding ratio 50/50

219.0 A Y / 362.0 A YY Starting current (Rotor locked)

Max. Power input 42,0 kW

# Extent of delivery (Standard)

Motor protection SE-B2, CM-RC-01(Option) Enclosure class IP54 (Standard), IP66 (Option)

Vibration dampers Standard 4.75 dm<sup>3</sup> Oil charge Discharge shut-off valve Standard

### Suction shut-off valve **Available Options**

Discharge gas temperature sensor Option Start unloading Option

100-66-33% (Option) Capacity control Capacity Control - infinite 100-10% (Option)

Additional fan Option Option Oil service valve Crankcase heater 140 W (Option)

Oil pressure monitoring MP54 (Option), Delta-PII

### Sound measurement

Sound power level (+5°C / 50°C) 83,9 dB(A) @50Hz Sound power level (-10°C / 45°C) 83,3 dB(A) @50Hz 89,5 dB(A) @50Hz Sound power level (-35°C / 40°C) Sound pressure level @ 1m (+5°C / 50°C) 75,9 dB(A) @50Hz Sound pressure level @ 1m (-10°C / 45°C) 75,3 dB(A) @50Hz Sound pressure level @ 1m (-35°C / 40°C) 81,5 dB(A) @50Hz Sound power level (+5°C / 50°C) R134a 81,9 dB(A) @50Hz Sound power level (-10°C / 45°C) R134a 81,3 dB(A) @50Hz

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73,9 dB(A) @50Hz 73,3 dB(A) @50Hz 2/4

Sound pressure level @ 1m (+5°C / 50°C) R134a Sound pressure level @ 1m (-10°C / 45°C) R134a



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# **Semi-hermetic Reciprocating Compressors**

**Motor 1 =** e.g. 4TES-12 with 12 "HP", primary for air-conditioning (e.g. R22,R407C) and air-conditioning with R134a at high ambient temperatures.

**Motor 2 =** e.g. 4TES-9 with 8 "HP", universal Motor for medium and low temperature application (e.g. R404A, R507A, R407A, R407F) and air-conditioning with R134a

Motor 3 = e.g. 4TES-8, for medium temperature applications and R134a

For more information concerning the application range use the "Limits" button.

## Operation modes 4VES-7 to 6FE-44 and 44JE-30 to 66FE-88 with R407F/R407A/R22

CIC = liquid injection with low temperature application, suction gas cooled motor.

## ASERCOM certified performance data

The Association of European Refrigeration Component Manufacturers has implemented a procedure of certifying performance data. The high standard of these certifications is assured by:

- \* plausibility tests of the data performed by experts.
- \* regular measurements at independent institutes.

These high efforts result in the fact that only a limited number of compressors can be submitted. Due to this not all BITZER compresors are certified until now. Performance data of compressors which fulfil the strict requirements may carry the label "ASERCOM certified". In this software you will find the label at the respective compressors on the right side below the field "result" or in the print out of the performance data. All certified compressors and further information are listed on the homepage of ASERCOM.

# Condensing capacity

The condensing capacity can be calculated with or without heat rejection. This option can be set in the menu Program  $\Box$  Options. The heat rejection is constantly 5 % of the power consumption. The condensing capacity is to be found in the line Condensing cap. (with HR) resp. Condensing capacity.

### Data for sound emission

Data based on 50 HZ apllication (IP-units 60 Hz) and R404A if not declared.

Sound pressure level: values based on free field area conditions with hemisperhical sound emission in 1 meter distance.

## General remarks regarding sound data

Listed sound data were measured under testing conditions in our laboratory. For this purpose the free-standing test sample is mounted on a solid foundation plate and the pipework is connected vibration-free to the largest extend possible. Suction and discharge lines are fixed in a flexible configuration, such that a transmission of vibrations to the environment can be largely excluded. In real installations considerable differences might be observed, compared to the measurements in the laboratory. The airborne sound emitted by the compressor can be reflected from surfaces of the system and this may increase the airborne sound level measured close to the compressor. Vibrations caused by the compressor are also transferred to the system by the compressor feet and piping depending on the damping ratio of the fixings. Thus, the vibrations can induce other components to such an extent that these components contribute to an increase in airborne sound emission. If required, the transfer of vibrations to the system can be minimized by suitable fixing and damping elements.

### Legend of connection positions according to "Dimensions":

- 1 High pressure connection (HP)
- 2 Connection for discharge gas temperature sensor (HP) (for 4VE(S)-6Y .. 4NE(S)-20(Y) connection for CIC sensor as alternative)
- 3 Low pressure connection (LP)
- 4 CIC system: injection nozzle (LP)
- 4b Connection for CIC sensor
- 4c Connection for CIC sensor (MP / operation with liquid subcooler)
- 5 Oil fill plug
- 6 Oil drain
- 7 Oil filter (magnetic screw)
- 8 Oil return (oil separator)
- 8\* Oil return with NH3 and insoluble oil
- 9 Connection for oil and gas equalization (parallel operation)
- 9a Connection for gas equalization (parallel operation)
- 9b Connection for oil equalization (parallel operation)
- 10 Oil heater connection
- 11 Oil pressure connection +
- 12 Oil pressure connection -
- 13 Cooling water connection
- 14 Intermediate pressure connection (MP)
- 15 Liquid injection (operation without liquid subcooler and with thermostatic expansion valve)
- 16 Connection for oil monitoring (opto-electrical oil monitoring "OLC-K1" or differential oil pressure switch "Delta-PII")



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- 17 Refrigerant inlet at liquid subcooler 18 Referigerant outlet at liquid subcooler
- 19 Clamp space 20 Terminal plate
- 21 Maintenance connection for oil valve
- 22 Pressure relief valve to the atmosphere (discharge side)
- 23 Pressure relief valve to the atmosphere (suction side)
- 24 IQ MODULE
- SL Suction gas line
  DL Discharge gas line

Dimensions can show tolerances according to EN ISO 13920-B.

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