

HGX12e/40-4 S CO2 LT

Engine: 265-290V Δ / 440-480V Y -3- 60Hz

Refrigerant: R744

Subject:

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Technical data

Number of cylinders / Bore / Stroke	2 / 40 mm / 16 mm
Displacement 50/60 Hz (1450/1740 1/min)	3,50 / 4,20 m ³ /h
Voltage	220-240V Δ / 380-420V Y -3- 50Hz 265-290V Δ / 440-480V Y -3- 60Hz
Max. working current ¹⁾	10.7 / 6.2 A
Max. power consumption ¹⁾	3.7 kW
Starting current (rotor blocked) ¹⁾	111.0 / 64.0 A
Motor protection	INT69 G
Protection terminal box	IP 66
Weight	95 kg
Frequency range ²⁾	30 -70 Hz
Max. permissible overpressure (g) (LP/HP) ³⁾	100 / 100 bar
Connection suction line SV	16 mm - 5/8 "
Connection discharge line DV	12,8 mm - 1/2 "
Lubrication	Oil pump
Oil type R744	BOCKlub E85
Oil charge	1,3 Ltr.
Dimensions Length / Width / Height	513 / 293 / 338 mm
Sound pressure level L _{pA}	< 70 dB(A)

1) - The stated value for the max. power consumption is valid for the adjusted power supply.

- Starting current (rotor blocked):

- Part winding (PW) motors: Winding 1 / Winding 1+2
- Delta/Star (Δ/Y) motors: Δ / Y

- Take account of the max. operating current / max. power consumption for designing motor contractors, feed lines, fuses and motor protection switches. Motor contractors: Consumption category AC3.

2) The maximum permissible working current of the compressor (I_{max}) must not be exceeded. Take account of the guidelines for use of frequency inverter (see compressor assembly instruction or selection software).

3) LP = Low pressure
HP = High pressure

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Performance data table

Application: Refrigeration & AC

Reference temperature: Dew point

Supply frequency: 60 Hz

Voltage: 460 V

Suction gas superheat: 10 K

Subcooling (outside cond.): 0 K

tc [°C]		to [°C]									
		5.0	0.0	-5.0	-10.0	-15.0	-20.0	-25.0	-30.0	-35.0	-40.0
25.0	Q [W]		15700	12900	10500	8320	6530	5040	3840		
	P [kW]		3.30	3.50	3.60	3.59	3.50	3.34	3.12		
	I [A] ¹⁾		6.18	6.38	6.47	6.46	6.38	6.22	6.02		

to Evaporating temperature

tc Condensing temperature

Q Compressor refrigeration capacity

P Power consumption

I Current draw

1) Value calculated. Deviation to reality possible.

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Scope of supply

Semi-hermetic two cylinder reciprocating compressor with drive motor
Single-section compressor housing with hermetically integrated electric motor

Winding protection with PTC resistor sensors and electronic trigger unit INT69 G
115-230 V AC, 50/60 Hz, IP00

Oil pump

Pressure relief valve suction and discharge line

Oil charge:
BOCKlub E85

Sight glass

Suction and discharge line valve in soldering / welding design

Inert gas charge

Accessories

Compressor oil **BOCKlub E85** as 1 liter refill unit ¹⁾

Oil sump heater 230 V - 1 - 50/60 Hz, 80 W

Steel terminal box

Thermal protection thermostat

Oil temperature sensor (Pt1000, for external evaluation)

Hot gas temperature sensor (Pt1000, for external evaluation)

4 anti-vibration pads enclosed

Special voltage and/or frequency (on request)

1) Enclosure

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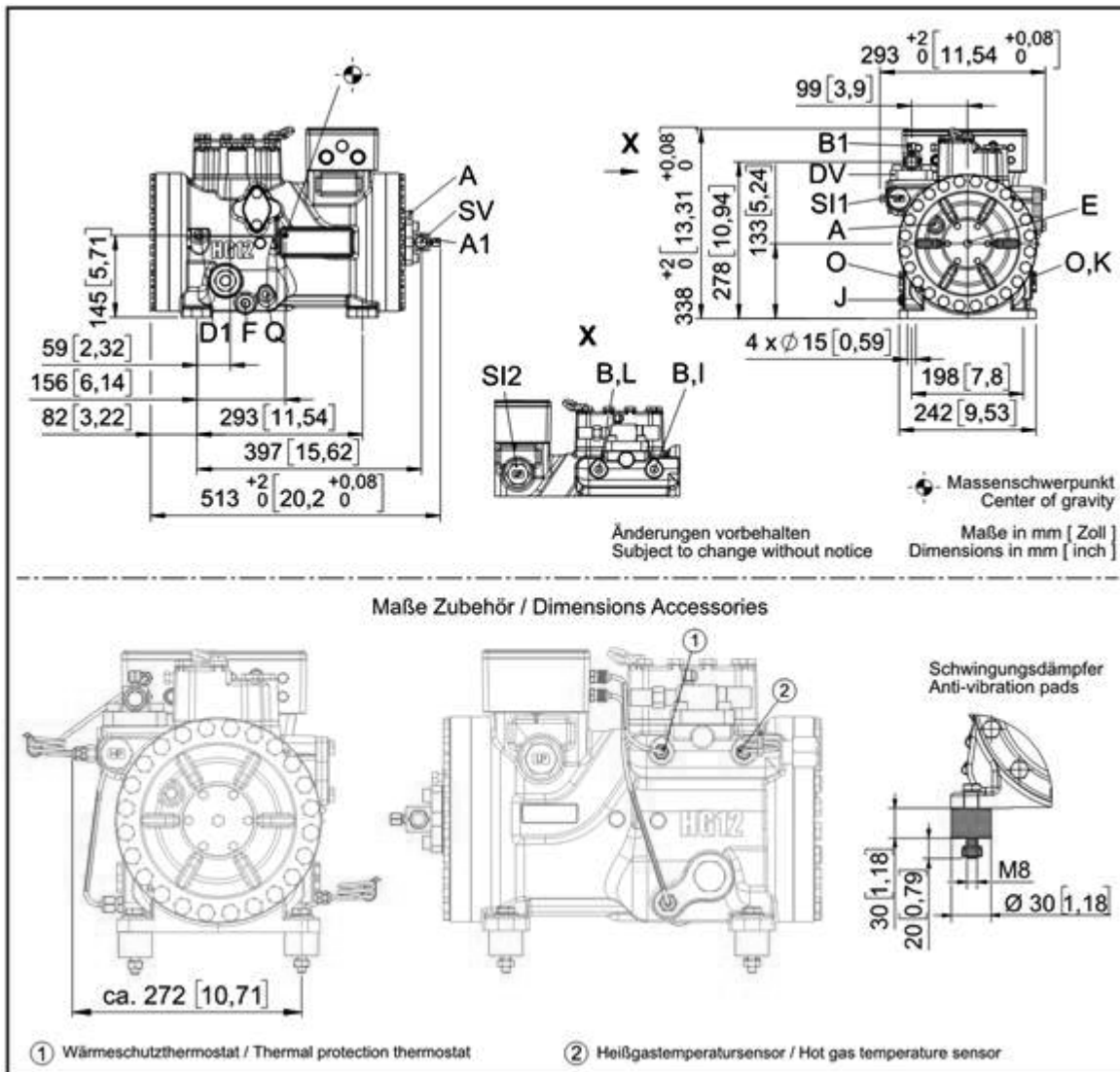
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Dimensions and connections



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SV	Suction connection, tube ø ¹⁾	16 mm - 5/8 "
DV	Discharge line valve, tube ø ¹⁾	12,8 mm - 1/2 "
A	Connection suction side, not lockable	1/8" NPTF
A1	Connection suction side, lockable	7/16" UNF
B	Connection discharge side, not lockable	1/8" NPTF
B1	Connection discharge side, lockable	7/16" UNF
D1	Connection oil return from oil separator	1/4" NPTF
E	Connection oil pressure gauge	1/8" NPTF
F	Oil drain	M12x1,5
I	Connection hot gas temperature sensor	1/8" NPTF
J	Connection oil sump heater	3/8" NPTF
K	Sight glass	1 1/8" - 18 UNEF
L	Connection thermal protection thermostat	1/8" NPTF
O	Connection oil level regulator	2x 1 1/8" - 18 UNEF
Q	Connection oil temperature sensor	1/8" NPTF
SI1	Decompression valve HP	M22x1,5
SI2	Decompression valve LP	M22x1,5

1) Solder/ Welding connection

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Product photo



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