

Mbsm.pro, Compressor, inverter, VTZ121AGNR1B, 60000 btu, air conditioning

Category: air conditioner,compressor
written by Jamila | 3 March 2023

Danfoss Commercial Compressors

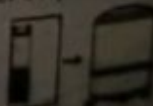
Model no: VTZ121AGNR1B



Serial no: AL1006034653



CAUTION: Variable speed compressor electric supply via Danfoss CDS frequency converter only



Friedrich
Mann
7M

2010

Refrigerant: R404A-R507A-R407C-R134a

WARNING

Description



Product details

Gross weight 43.5 kg

Net weight 40 kg

EAN 5702428666145

Gross weight 43.5 kg

Net weight 40 kg

EAN 5702428666145

Approval standard

Brand technique

Capacity control

Colour

Compressor power supply [V/Ph/Hz]

Configuration code

Connection type

Cylinder

Description

CE certified

UL certified when connected to frequency converter

Reciprocating compressor

Inverter

Blue

380-480/3/50-60

Single

Rotolock

2

VTZ121-G

Diameter [mm]	288 mm
Discharge connection height [mm]	74 mm
Discharge connection mounting torque [Nm]	90 N-m
Discharge connection pipe size [in]	3/4 in
Discharge connection rotolock size [in]	1 1/4 in
Discharge connection size [in]	1 1/4 in
Discharge connection sleeve pipe size [in]	3/4 in
Drawing number	8502016a
Economizer	No
Factory HP [bar]	25 bar
Factory LP [bar]	25 bar
Fitting remark	(shipped with rotolock version only)
Fitting sleeve	ODF
Fitting standard	Rotolock
Frequency [Hz]	30 – 85
Gauge port HP	None
Gauge port LP	Schrader
Generation code	A
Glass mounting	Threaded
Glass torque [Nm]	50 N-m
GP LP torque [Nm]	15 N-m
High side max pressure (Ps)	29.4 bar
High Side TS Max	150 Â°C
High Side TS Min	-35 Â°C
High Side Volume	0.6 L
High value of nominal voltage at 50Hz [V]	480 V
High value of nominal voltage at 60Hz [V]	480 V
High value of voltage range at 50Hz [V]	480 V
High value of voltage range at 60Hz [V]	480 V
IP protection class	IP54 (with cable gland)
Low side max pressure (Ps)	22.6 bar
Low Side TS Max	50 Â°C
Low Side TS Min	-35 Â°C
Low Side Volume	16.5 L
Low value of nominal voltage at 50Hz [V]	380 V
Low value of nominal voltage at 60Hz [V]	380 V
Low value of voltage range at 50Hz [V]	380 V
Low value of voltage range at 60Hz [V]	380 V
LRA	139 A
MMT	29 A
Model number	VTZ121AGNR1B
Motor protection	Motor protection by frequency converter
Mounting torque [Nm]	15 N-m
Nominal cooling capacity at 50Hz	6.7 kW
Nominal cooling capacity at 60Hz	14.4 kW

Number of starts per hour [Max]	12
Oil charge [L]	1.8 L
Oil equalization	3/8" flare SAE
Oil equalization torque [Nm]	30 N-m
Oil reference	160PZ
Packaging height [mm]	455 mm
Packaging length [mm]	395 mm
Packaging width [mm]	365 mm
Packing format	Single pack
Packing quantity	1
Phase	3
Power connections	Screw 4.8 mm
Refrigerant	R134a R404A R407C R507A
Refrigerant charge [kg] [Max]	5 kg
Relief valve	30 bar/8 bar
RLA	23.2 A
Rotational speed at 50Hz [rpm]	0 rpm
Rotational speed at 60Hz [rpm]	0 rpm
Segment usage	Air conditioning Refrigeration LT Refrigeration MT
Shipped fittings	Suction and discharge solder sleeves, rotolock nuts and gaskets
Shipped instructions	Installation instructions
Shipped mounting	Mounting kit with grommets, bolts, nuts, sleeves and washers
Shipped oil	Initial oil charge
Suction connection height [mm]	165 mm
Suction connection mounting torque [Nm]	110 N-m
Suction connection pipe size [in]	1 1/8 in
Suction connection rotolock size [in]	1 3/4 in
Suction connection size [in]	1 3/4 in
Suction connection sleeve pipe size [in]	1 1/8 in
Swept volume [cm ³]	120.94 cm ³
Technology	Reciprocating
Test dif [bar] [Max]	30 bar
Test HP [bar] [Max]	30 bar
Test LP [bar] [Max]	25 bar
Torque earth [Nm]	3 N-m
Torque power [Nm]	3 N-m
Total height [mm]	413 mm
Type	VTZ
Type designation	Compressor

Viscosity [cP]	32 cP
Winding resistance for three-phase compressors with identical windings [Ohm]	0.59 Ohm
Approval standard	CE certified UL certified when connected to frequency converter
Brand technique	Reciprocating compressor
Capacity control	Inverter
Colour	Blue
Compressor power supply [V/Ph/Hz]	380-480/3/50-60
Configuration code	Single
Connection type	Rotolock
Cylinder	2
Description	VTZ121-G
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Fitting remark	(shipped with rotolock version only)
Fitting sleeve	ODF
Fitting standard	Rotolock
Frequency [Hz]	30 – 85
Gauge port HP	None
Gauge port LP	Schrader
Generation code	A
Glass mounting	Threaded
Glass torque [Nm]	50 N-m
GP LP torque [Nm]	15 N-m
High side max pressure (Ps)	29.4 bar
High Side TS Max	150 Â°C
High Side TS Min	-35 Â°C
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Suction connection mounting torque [Nm]	110 N-m

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Suction connection size [in]	1 3/4 in
Suction connection sleeve pipe size [in]	1 1/8 in
Swept volume [cm3]	120.94 cm3
Technology	Reciprocating
Test dif [bar] [Max]	30 bar
Test HP [bar] [Max]	30 bar
Test LP [bar] [Max]	25 bar
Torque earth [Nm]	3 N-m
Torque power [Nm]	3 N-m
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Refrigerant: R134a; R404A; R407C; R507A, Segment usage: Air conditioning;Refrigeration LT;Refrigeration MT, Compressor power supply [V/Ph/Hz]: 380-480/3/50-60	

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Brand technique	Reciprocating compressor
Capacity control	Inverter
Colour	Blue
Compressor power supply [V/Ph/Hz]	380-480/3/50-60
Configuration code	Single
Connection type	Rotolock
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Fitting sleeve	ODF
Fitting standard	Rotolock
Frequency [Hz]	30 – 85
Gauge port HP	None
Gauge port LP	Schrader
Generation code	A
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Packing quantity	1
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Power connections	Screw 4.8 mm
Refrigerant	R134a R404A R407C R507A
Refrigerant charge [kg] [Max]	5 kg
Relief valve	30 bar/8 bar
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Rotational speed at 50Hz [rpm]	0 rpm
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