

144 Volt A/C Compressor Kit



Overview

The CanEV 144 Volt A/C Compressor Kit provides the necessary components to replace the traditional AC pump of an ICE vehicle. The kit comes with all the parts needed to complete the project including pump, controller, contactor and wiring harness.

Quick Specs

Compressor Type: Horizontal Scroll
Compressor

Min / Max Voltage

Range:

130 ~ 190 Volts DC

Refrigerant Type:

R134a

Pump Weight:

6.1 kg

Pump Dimensions:

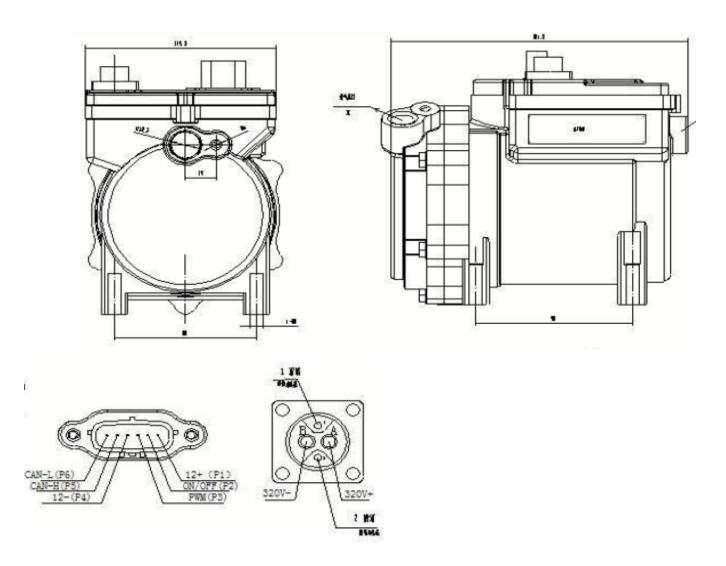
161.5mm (L) X 98mm (W)

X 155mm (H)

Kit Contents

- Compressor Pump
- Controller
- Contactor
- Wiring Harness

Installation Requirements - 144V A/C Compressor Kit



108V AC Compressor Kit (90-130V)

144V AC Compressor Kit (120-180V)

400V AC Compressor Kit (260-450V)

Precautions:

- 1. The compressor must not fall to the ground or be affected by it during transportation.
- 2. The compressor must be installed in the specified direction. The lubricating oil in the compressor must not leak during installation. It is recommended to install vibration isolators between the compressor and the mounting bracket.
- 4. After removing the compressor suction and discharge pressure plate and plug, it should be within 10 minutes. Connect the compressor to the system and draw a vacuum fill with 450-500g R134A.

Specifications - 144V A/C Compressor

	_	DI 00444 077/0 0-	
Compressor type		DLCP144-27Y3-2a	
Compressor mode		Semi enclosed horizontal scroll	
		compressor	
Using refrigerant		R134a	
Exhaust volume		27cm ³ /rev	
Driver		Integrated type	
Motor cooling		Suction refrigerant cooling	
Common speed range		15004000rpm	
Maximum permissible rotational			
speed			
Evaporation temperature range		-10~15.6°C	
Condensation temperature range		26.7~65.6°C	
pressurization	Seal pressure	30bar	
	Damage	The suction side 5.2MPa	
	pressure	The exhaust side 8.3MPa	
Pressure relief	Pressure relief	4.00.4MPa	
valve	Recovery	3.25MPa	
	pressure		
The amount of le	eakage of	<14g/a	
refrigerant		DOE 00/4001	
Lubricating oil / oil		POE-68/120ml	
Appearance		Aluminum alloy surface shot peening	
Total mass (oil)		6.1kg(Containing refrigerant oil)	
Installation method		Through 3 holes on the bracket.	
Installation dimensions		132 X 82	
The suction pipe interface		18.3mm	
diameter			
Exhaust pipe interface inner		15.5mm	
diameter Protection level			
Protection level		IP67	
Electric parameter performance	Motor type	Permanent magnet synchronous motor	
	Voltage resistance	2000VAC, no abnormal after 1 minutes.	
	Insulation	500VAC, insulation resistance >50M	
	property	(20)	
	P. opony	\/	

Specifications - 144V A/C Compressor (cont.)

Item			Specifications
Model			Integral type DLCT144-1.6
Cooling mode			Compressor suction cooling
Range		е	4000r/min
Speed Regu	Regul	ation speed	1000r/min /s
		of reaching	within 5 seconds after starting
Maximum speed		num speed	IP67
Waterproof			
Control mode			Sine wave control
Operating voltage range		e range	130V-190
Withstand voltage range		e range	Less than200V
Under voltage protection		otection	128V
Under pressure recovery		ecovery	130V
Over voltage protection		tection	190V
Over voltage recovery		overy	188V
Working co	urrent	Normal working maximum current	15A
		Overload operation	The driver detects the load greater than 15A, and the compressor will be shut down
		Motor minimum operating speed	When Motor speed is less than 1000 rpm, the compressor will be shut down
Using		Storage temperature	-20 Degree ~65 Degree
environme	ent	Using temperature	-10 Degree ~ 65 Degree
		Drive belt work surface temperature	30 degrees higher than the ambient temperature
Insulation			More than 50M