

PRODUCT SPECIFICATION

KCN422LAL-BXXX
B330, B331

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Provisional

EMERSON CLIMATE TECHNOLOGIES (INDIA) LIMITED
KARAD DHEBEWADI ROAD
KARAD - 415 110 (M.S.)
INDIA

Note – Sales compressor drawing number and compressor model name are the same.

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PRODUCT SPECIFICATION

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A) MODEL DESCRIPTION

MODEL – KCN422LAL-BXXX

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Model Name	KCN422LAL-BXXX
Compressor Type	Reciprocating ,Connecting Rod Type
Application Group	Low temperature (LBP)
Evaporating Temperature Range	-40 °C to –6.7 °C
Refrigerant	R-134/Blend
Rated Voltage	230V, 1Phase, 50Hz
Compressor Cooling	FAN – 350 CFM
Typical Application	Deep Freezer

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B) PERFORMANCE SPECIFICATION @ RATED CONDITION

Specification	Unit	LBP
	Btu / h	1825
Cooling Capacity	kcal / h W	460553

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	Nominal HP	0.54
Input Power	W	455
Cooling Capacity — Btu / W-h	4.00	Input Current — A
EER =	kcal / W-h	1.01

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Input Power

2.22

W / W

1.21

A

Note – Above parameters are nominal to ± 5% variation

performance values & subject

C) RATING CONDITIONS

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Parameter	Unit	LBP
Evaporating Temperature	°C (°F)	-23.3 (-10)
Condensing Temperature	°C (°F)	54.4 (130)
Ambient Temperature	°C (°F)	32 (90)
Sub cooled Liquid Temp.	°C (°F)	32 (90)
Return Gas Temperature	°C (°F)	32 (90)
Test voltage	volt	230

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MODEL – KCN422LAL-BXXX

D) MECHANICAL SPECIFICATION

Parameter	Unit	Value
Number of Cylinders	Number (s)	One
Displacement	cm ³ (inch ³) / rev	11.1 (0.677)
Net Weight	kg	11.5
Approximate Shipping Weight	kg	--
Oil Charge	cm ³ (Oz)	380 (13)
Oil Type	Refrigeration Grade	POE Oil

E) ELECTRICAL SPECIFICATION

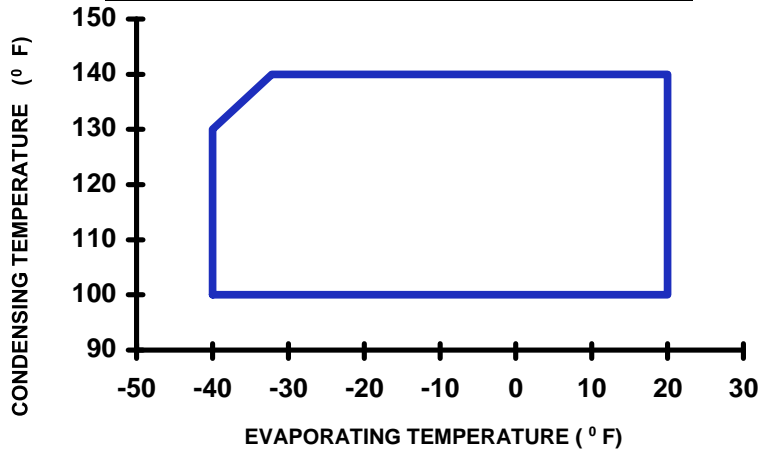
Parameter	Unit	Value
Operating Voltage Range	volt	180-260
Motor Circuit	---	CSR
Electrical Accessories	---	
⌚ Start Capacitor	mfd @ volt	80/100 mfd.
⌚ Run Capacitor	mfd @ volt	15 mfd
⌚ Relay	---	LT85003
⌚ Over Load Protector	---	KAT 164/ B2
Lock Rotor Ampere (LRA)	ampere	17
Maximum Continuous Current (MCC)	ampere	3.8

SPECIFICATION

Motor Insulation Class	---	Class B
High Potential Test	(kV/second/mA)	1.85 / 1 / 5.5

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F) OPERATING ENVELOP @ 230V, 50Hz, 1 phase



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