

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**MODEL – KCN422LAL-BXXX****A) MODEL DESCRIPTION**

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-404A
Rated Voltage	230V, 1Phase, 50Hz
Compressor Cooling	FAN – 350 CFM
Typical Application	Deep Freezer

B) PERFORMANCE SPECIFICATION @ RATED CONDITION

Specification	Unit	LBP
Cooling Capacity	Btu / h	1825
	kcal / h	460
	W	553
	Nominal HP	0.54
Input Power	W	455
Input Current	A	2.22
EER = $\frac{\text{Cooling Capacity}}{\text{Input Power}}$	Btu / W-h	4.00
	kcal / W-h	1.01
	W / W	1.21

Note – Above performance parameters are nominal values & subject to $\pm 5\%$ variation

C) RATING CONDITIONS

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

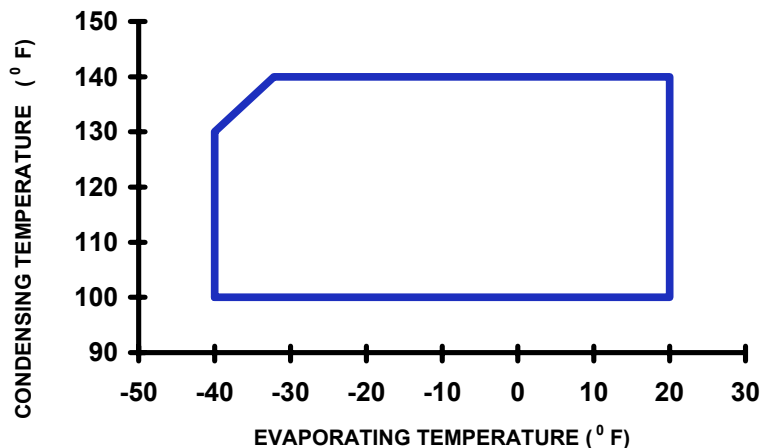
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PRODUCT SPECIFICATION**MODEL – KCN422LAL-BXXX****D) MECHANICAL SPECIFICATION**

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

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

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