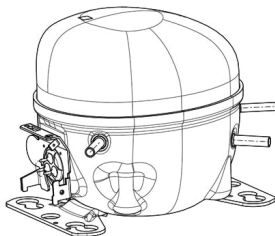


EM2X3117U



ENGINEERING CODE
513300736



REFRIGERANT
R-290



POWER SUPPLY
115-127 V 60 Hz



APPLICATION
L/MBP



MOTOR TYPE
RSCR



STANDARD
AHRI



COOLING CAPACITY
528 W



EFFICIENCY
2.9 W/W

DATA

GENERAL DATA

Model	EM2X3117U
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	L/MBP
Expansion Device	Capillary Tube
Compressor Cooling	Fan/115
HP	1/5
Starting Torque	LST
Plant	CHINA

ELECTRICAL DATA

Start Winding Resistance	4.81 Ω at 25°C
Run Winding Resistance	3.35 Ω at 25°C
Locked Rotor Amperage (LRA) 60Hz	15.3 A

MECHANICAL DATA

Displacement	4.5 cm ³
Oil Charge	150 ml
Oil Type	ALQUILB
Oil Viscosity	ISO22
Weight	8.2 Kg

ELECTRICAL COMPONENTS

CSR CSIR BOX	No
Starting Device Type	PTC
Overload Protection	4TM427NFBYY-53 DRB44N61A2

EXTERNAL CHARACTERISTICS

Base Plate	UNI EUEM
Tray Holder	YES

Connector	Internal Diameter	Shape	Material
Suction	6.1 mm	SLANTED 40° UP + 45° TO BACK	COPPER
Discharge	4.9 mm	SLANTED 42° UP + 24° TO BACK	COPPER
Process	6.1 mm	SLANTED 40° UP + 45° TO BACK	COPPER

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-290
Tested Application	MBP
Tested Standard	AHRI
Tested Cooling	Fan
Tested Voltage	115 V
Tested Frequency	60 Hz
Max Refrigerant Charge	150 g
Refrigerant Temperature	Dew

RATED POINTS

Condensing Temperature °C	Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
43.3	-6.7	528	2.9	182	-	6.48
Test Condition: Subcooling 0 K, Return Gas 18.3 °C. Data are an indication of performance based simulation.						

PERFORMANCE CURVE

Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-40	141	1.46	97	-	1.56
-35	180	1.68	107	-	2.00
-30	232	1.96	118	-	2.57
-25	295	2.27	130	-	3.28
-20	369	2.63	140	-	4.13
-15	454	3.03	149	-	5.10
-10	548	3.50	157	-	6.20
-5	652	4.05	161	-	7.42
0	765	4.72	162	-	8.76
Test Condition: Subcooling 0 K, Return Gas 18.3 °C. Data are an indication of performance based simulation.					

PERFORMANCE CURVE

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-40	113	1.12	101	-	1.37
-35	143	1.27	113	-	1.74
-30	185	1.47	126	-	2.25
-25	237	1.70	140	-	2.90
-20	299	1.95	154	-	3.68
-15	371	2.22	167	-	4.58
-10	452	2.52	179	-	5.62
-5	541	2.85	189	-	6.77
0	637	3.23	197	-	8.05
Test Condition: Subcooling 0 K, Return Gas 18.3 °C. Data are an indication of performance based simulation.					

PERFORMANCE CURVE

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-30	138	1.08	128	-	1.88
-25	180	1.24	144	-	2.45
-20	230	1.43	161	-	3.15
-15	289	1.62	179	-	3.98
-10	355	1.82	195	-	4.93
-5	429	2.03	211	-	6.01
0	510	2.27	225	-	7.20

Test Condition: Subcooling 0 K, Return Gas 18.3 °C. Data are an indication of performance based simulation.

ENVELOPE

