

NEK6213U



**ENGINEERING CODE**  
863CA51



**REFRIGERANT**  
R-290



**POWER SUPPLY**  
220-240 V 50 Hz



**APPLICATION**  
MBP



**MOTOR TYPE**  
CSIR



**STANDARD**  
EN12900



**COOLING CAPACITY**  
811 W



**EFFICIENCY**  
1.62 W/W



DATA

GENERAL DATA

Model	NEK6213U
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	MBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Fan/220
HP	1/2
Starting Torque	HST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	20.88 Ω at 25°C
Run Winding Resistance	3.93 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	19.3 A

## MECHANICAL DATA

Displacement	12.11 cm <sup>3</sup>
Oil Charge	350 ml
Oil Type	AB
Oil Viscosity	ISO32
Weight	11.1 Kg

## ELECTRICAL COMPONENTS

Start Capacitor	53-64 µf/330 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Starting Device Description	MTRP-0050*
Overload Protection	T0743/G6

## EXTERNAL CHARACTERISTICS

Base Plate	SMALL
Tray Holder	NO

Connector	Internal Diameter	Shape	Material
Suction	8.1 mm	SLANTED 42°	COPPER
Discharge	6.1 mm	STRAIGHT	COPPER
Process	6.1 mm	SLANTED 42°	COPPER

## PERFORMANCE

### TESTED CONDITIONS

Tested Refrigerant	R-290
Tested Application	MBP
Tested Standard	EN12900
Tested Cooling	Fan
Tested Voltage	220 V
Tested Frequency	50 Hz
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
45	-10	811	1.62	501	3.6	9.99

Test Condition: Subcooling 0 K, Return Gas 20 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

**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
-20	617	1.58	391	3.31	6.84
-15	764	1.82	420	3.40	8.52
-10	940	2.08	453	3.49	10.53
-5	1146	2.37	484	3.57	12.91
0	1383	2.72	509	3.66	15.70
5	1653	3.17	521	3.74	18.93
10	1956	3.79	516	3.82	22.63

Test Condition: Subcooling 0 K, Return Gas 20 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

**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
-20	531	1.22	435	3.37	6.46
-15	659	1.42	464	3.49	8.06
-10	811	1.62	501	3.60	9.99
-5	991	1.82	543	3.71	12.27
0	1197	2.06	582	3.82	14.96
5	1432	2.33	615	3.93	18.07
10	1698	2.67	635	4.03	21.65

Test Condition: Subcooling 0 K, Return Gas 20 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

**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
-10	677	1.29	526	3.74	9.30
-5	829	1.45	572	3.90	11.48
0	1005	1.62	621	4.05	14.05
5	1206	1.81	668	4.19	17.03
10	1433	2.03	708	4.33	20.48

Test Condition: Subcooling 0 K, Return Gas 20 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

## ENVELOPE



## EXTERNAL DIMENSIONS

