

NEK6213GK



ENGINEERING CODE
954IA23



REFRIGERANT
R-404A



POWER SUPPLY
220-240 V 50 Hz



APPLICATION
MBP



MOTOR TYPE
CSIR



STANDARD
EN12900



COOLING CAPACITY
963 W



EFFICIENCY
1.55 W/W



DATA

GENERAL DATA

| | |
|------------------------|-----------------------------------|
| Model | NEK6213GK |
| 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 | 15.1 Ω at 25°C |
| Run Winding Resistance | 4.8 Ω at 25°C |
| Locked Rotor Amperage (LRA) 50Hz | 21 A |

MECHANICAL DATA

| | |
|---------------|-----------------------|
| Displacement | 12.11 cm ³ |
| Oil Charge | 350 ml |
| Oil Type | ESTER |
| Oil Viscosity | ISO22 |
| Weight | 10.7 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-404A |
| 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 | 963 | 1.55 | 620 | - | 28.91 |

Test Condition: Subcooling 0 K, Return Gas 20 °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 |
|----------------------------|--------------------|----------------|---------------------|-----------|--------------------|
| -20 | 753 | 1.63 | 463 | - | 19.51 |
| -15 | 937 | 1.84 | 508 | - | 24.52 |
| -10 | 1155 | 2.05 | 562 | - | 30.45 |
| -5 | 1405 | 2.27 | 620 | - | 37.42 |
| 0 | 1689 | 2.51 | 674 | - | 45.56 |
| 5 | 2008 | 2.79 | 720 | - | 54.98 |
| 10 | 2360 | 3.14 | 753 | - | 65.80 |

Test Condition: Subcooling 0 K, Return Gas 20 °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 |
|----------------------------|--------------------|----------------|---------------------|-----------|--------------------|
| -20 | 624 | 1.21 | 515 | - | 18.39 |
| -15 | 780 | 1.39 | 560 | - | 23.19 |
| -10 | 963 | 1.55 | 620 | - | 28.91 |
| -5 | 1174 | 1.70 | 689 | - | 35.66 |
| 0 | 1413 | 1.85 | 763 | - | 43.56 |
| 5 | 1680 | 2.01 | 834 | - | 52.72 |
| 10 | 1976 | 2.20 | 899 | - | 63.27 |

Test Condition: Subcooling 0 K, Return Gas 20 °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 |
|----------------------------|--------------------|----------------|---------------------|-----------|--------------------|
| -10 | 765 | 1.19 | 644 | - | 27.10 |
| -5 | 934 | 1.30 | 716 | - | 33.57 |
| 0 | 1125 | 1.41 | 799 | - | 41.17 |
| 5 | 1340 | 1.51 | 887 | - | 50.04 |
| 10 | 1577 | 1.62 | 974 | - | 60.27 |

Test Condition: Subcooling 0 K, Return Gas 20 °C. Data are an indication of performance based simulation.

ENVELOPE



EXTERNAL DIMENSIONS

