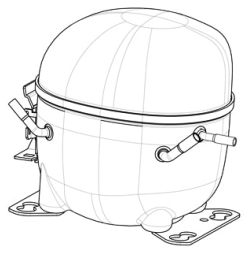
COMPRESSOR TECHNICAL DATA

NEK6187Z



ENGINEERING CODE
269BB92

REFRIGERANT
R-134a

POWER SUPPLY
200-230 V 50 Hz/208-230 V 60 Hz

APPLICATION
HBP

STANDARD
ASHRAE

MOTOR TYPE
CSIR

COOLING CAPACITY
1122 W

EFFICIENCY
2.33 W/W

DATA

GENERAL DATA

Model	NEK6187Z
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	HBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Fan/208
HP	1/3
Starting Torque	HST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	19.9 Ω at 25°C
Run Winding Resistance	4.09 Ω at 25°C

MECHANICAL DATA

Displacement	9.99 cm^3
Oil Charge	350 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	11 Kg

ELECTRICAL COMPONENTS

Start Capacitor	53-64 µf/330 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Overload Protection	MRT30APK-3259

EXTERNAL CHARACTERISTICS

Base Plate	UNI

Connector	Internal Diameter	Shape	Material
Suction	8.1 mm	SLANTED 42°	COPPER
Discharge	6.45 mm	STRAIGHT	COPPER
Process	6.45 mm	SLANTED 42°	COPPER

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-134a
Tested Application	HBP
Tested Standard	ASHRAE
Tested Cooling	Fan
Tested Voltage	208 V
Tested Frequency	60 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
54.4	7.2	1122	2.33	481	2.92	24.84

Test Condition: Subcooling 8.3 K, Return Gas 35 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE

Condensing Temperature 35ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-15	525	2.19	240	2.17	9.68
-10	670	2.54	264	2.27	12.41
-5	840	2.92	288	2.38	15.61
0	1035	3.34	310	2.51	19.32
5	1257	3.84	327	2.65	23.60
10	1509	4.45	339	2.80	28.50

Test Condition: Subcooling 8.3 K, Return Gas 35 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE

Condensing Temperature 45ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-15	463	1.70	272	2.17	9.23
-10	597	1.98	302	2.30	11.95
-5	754	2.25	335	2.45	15.14
0	934	2.53	369	2.60	18.86
5	1141	2.82	404	2.75	23.16
10	1374	3.15	436	2.91	28.10

Test Condition: Subcooling 8.3 K, Return Gas 35 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

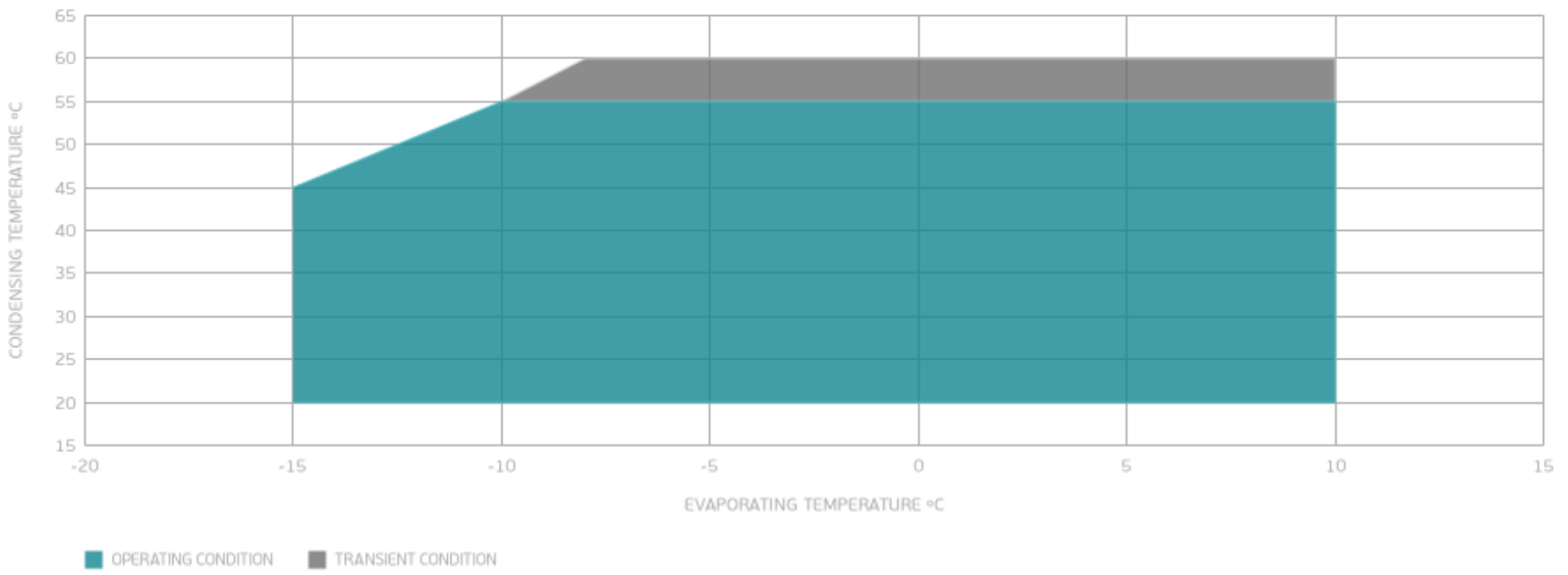
PERFORMANCE CURVE

Condensing Temperature 55ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-10	528	1.59	331	2.34	11.52
-5	670	1.81	370	2.51	14.69
0	835	2.01	415	2.68	18.40
5	1024	2.21	463	2.86	22.71
10	1239	2.42	512	3.02	27.67

Test Condition: Subcooling 8.3 K, Return Gas 35 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

ENVELOPE



EXTERNAL DIMENSIONS