

SE6089GS-0



**ENGINEERING CODE**  
302FO0401AA

**REFRIGERANT**  
R-449A

**POWER SUPPLY**  
380-420 V 50 Hz  
/ 460 V 60 Hz 3~

**APPLICATION**  
MBP

**MOTOR TYPE**  
3 Phase

**STANDARD**  
EN12900

**COOLING CAPACITY**  
20836 W

**EFFICIENCY**  
2.4 W/W

DATA

GENERAL DATA

Model	SE6089GS-0
Type	Hermetic Scroll Compressor
Technology	On-Off
Compressor application	MBP
Compressor cooling	Static
HP	13

ELECTRICAL DATA

Voltage range 60Hz	414-506 V
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ELECTRICAL COMPONENTS

Overload protection	Internal Protector   35HM568-XX or UP28KY05B-XX
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## MECHANICAL DATA

Displacement	41.16 m <sup>3</sup> /h (196.00 cm <sup>3</sup> /rev)
Free volume high	0.9 L
Free volume low	6.3 L
High side pressure	3.2 MPa
Low side pressure	2 MPa
Max discharge temperature	120 °C
Oil charge	2.7 L
Oil Recharge	2.85 L
Oil Circulation	0.01 %
Oil type	POE
Pressure valve opening (max)	3.1 MPa
Pressure valve opening (min)	2 MPa
Height	506.7 mm
Weight	54 Kg
Rated speed	3500 RPM

## EXTERNAL CHARACTERISTICS

Base Plate Holes	190.5x190.5
Base plate dimensions	239x239

Connector	Internal diameter	Material	Shape
Suction	Brazing	Copper plated steel tube	ID 28.83 mm
Discharge	Brazing	Copper plated steel tube	ID 22.4 mm

## MOTOR DATA

Max motor temperature	130 °C
Motor insulation	B
Run winding resistance	1.1 Ω
Start winding resistance	1.1 Ω

## ADDITIONAL COMPONENTS

Cover	yes
Cover gasket	yes
Grommets	yes
Grounding screw	yes
Hanger tab	yes
Sightglass	yes
Sleeves	yes

## PERFORMANCE

### TESTED CONDITIONS

Tested refrigerant	R-449A
Tested application	MBP
Tested standard	EN12900
Tested cooling	Static
Tested voltage	380 V
Tested frequency	50Hz
Tested frequency	50Hz
Max refrigerant charge	7.5 Kg

### RATED POINTS

Condensing Temperature °C	Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Consumo de Potencia W
45	-10	20836	2.4	8699

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	Consumo de Potencia W
-30	9840.00	1.69	5823.00
-25	12507.00	2.03	6170.00
-20	15515.00	2.37	6543.00
-15	18982.00	2.74	6932.00
-10	23030.00	3.14	7328.00
-5	27778.00	3.60	7723.00
0	33346.00	4.11	8107.00
5	39855.00	4.71	8470.00
10	47423.00	5.39	8806.00

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	Consumo de Potencia W
-30	8185.00	1.19	6897.00
-25	10815.00	1.48	7318.00
-20	13667.00	1.76	7763.00
-15	16863.00	2.05	8225.00
-10	20523.00	2.36	8692.00
-5	24765.00	2.70	9158.00
0	29711.00	3.09	9613.00
5	35480.00	3.53	10047.00
10	42192.00	4.04	10451.00

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	Consumo de Potencia W
-20	11095.00	1.17	9470.00
-15	14095.00	1.41	9999.00
-10	17441.00	1.66	10534.00
-5	21253.00	1.92	11065.00
0	25651.00	2.21	11586.00
5	30756.00	2.55	12085.00
10	36687.00	2.92	12554.00

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

**ENVELOPE**

