Section 1. General Specifications

Content		Unit	Specification
Compressor Model		—	C-SBP105H16A
Type		—	Hermetic Scroll Compressor
Application		—	High Back Pressure
Evap. Temp. Range		°C (°F)	-15~12 (5~54)
Compressor Cooling Type		—	Natural Cooling
Power Source	Phase	—	1
	Rated Voltage	V	208-230
	Rated Frequency	Hz	60
Voltage Range		V	187-253
Weight (Including Oil)		kg (lb)	38 (83.8)
Refrigerant		—	R410A
Oil Type		—	FV68S or Equivalent
Oil Charge		ml (fl oz)	1400 (47.3)
Displacement		cm^3 (in^3) /rev	34.85(2.13)
Motor	Motor Type	—	1-PH Induction Motor (PSC)
	Number of Poles	—	2
	Electrical Insulation	Class	E
	Nominal Revolution	min^{-1}	—
	Locked Rotor Ampere	A	123
	Winding Resistance [at 25°C (77°F）]	Ω	C-S 0.832
			C-R 0.403
Connection Tube	Suction Line (O.D.)	mm (in)	22.2 (0.875)
	Discharge Line (O.D.)	mm (in)	12.7 (0.500)
Compressor Surface Paint		—	Black Paint
Capacitor		—	60-440

Notes

1 Voltage range is applied at standard rating conditions.

2 Motor specifications in the table are the average values for your reference.

3 ( ): All units with parentheses are reference values.

Expiration of Specification

Expiration of this specification shall be effected until issuing a notice with indication of the expiration date from the issued date. In case of improvement or elimination of this specification, it shall be handled by the revision record based on agreement between both sides.

PartsConnect

Section 2. Performance Warranty

2.1 Performance

Power Source (1PH)	Hz	60	60	Remark
	V	208	230	
Capacity	W	10,500	10,500	±5%
	(BTU/hr)	35,826	35,826	reference
Input Power	W	3,800	3,800	±5%
Current	A	18.60	16.70	±5%

Standard Rating Conditions

Condensing Temp.	°C (°F)	54.4(130)
Evaporating Temp.	°C (°F)	7.2(45)
Suction Gas Temp.	°C (°F)	18.3(65)
Liquid Temp.	°C (°F)	46.1(115)
Ambient Temp.	°C (°F)	35.0(95)

3. 4 Electrical Component Required but not Included with compressor

Parts Name	Specification
Running Capacitor	60μ F 440V

Note: A starting capacitor of 100~140μF/330V (Bleed Resistor:Rf=18kΩ, 2W) could be used in special difficulty starting case

Notes

1 Installation should be completed within 15 minutes after removing the rubber plugs.

2 Do not use the compressor to compress air.

3 Do not energize the compressor under vacuumed conditon.

4 Evacuation and Refrigerant charge ： Evacuate internal section in the refrigeration system from high and low pressure sides and charge liquid refrigerant from condenser outlet side. Additional charge shall be done with gas condition from low side.

5 Do not tilt over the compressor while carrying it.

6 Do not remove the paint.

7 Crankcase heater is required when the oil sump temperature is too low to meet the requirement of item 6 on page7.

8 Voltage fluctuation between compressor terminals, during operation, shall be within 2% of the rated voltage.

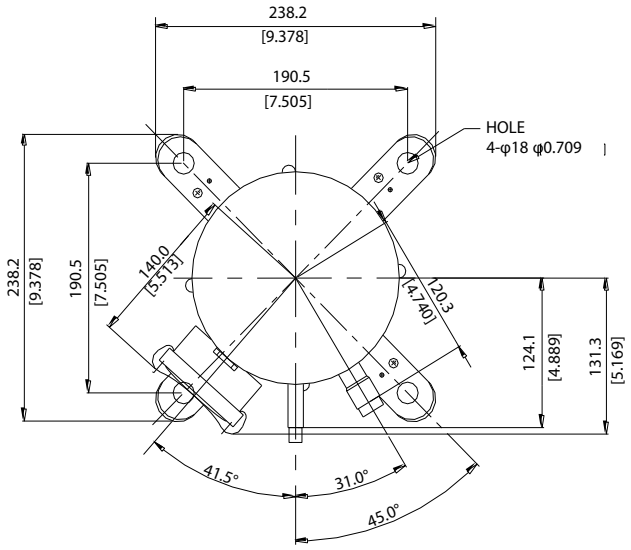
9 Do not operate compressor in reverse rotational direction.

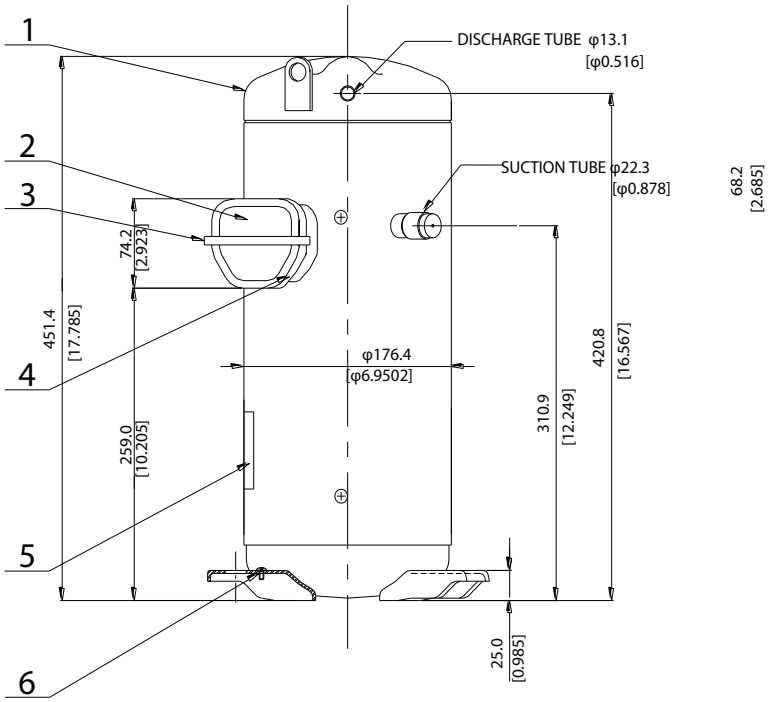
10 Suction strainers are recommended for all applications.

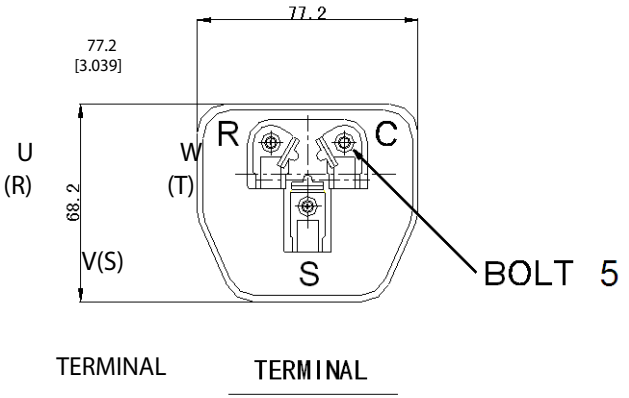
11 Copper Piping Stress Start/Shutdown 34.32 N/mm^2 Max.

Run 12.26 N/mm^2 Max.

No.	Part Code	Qty	Name
1	C-SBP105H16A	1	Compressor
2	A-0101-DSB	1	Terminal Box Cover
3	A-0201-DSB	1	Terminal Box Clip
4	A-0301-DSB	1	Eyelet Rub Lead Wire
5		1	Nameplate
6	B-0101-DSB	1	Screw Special





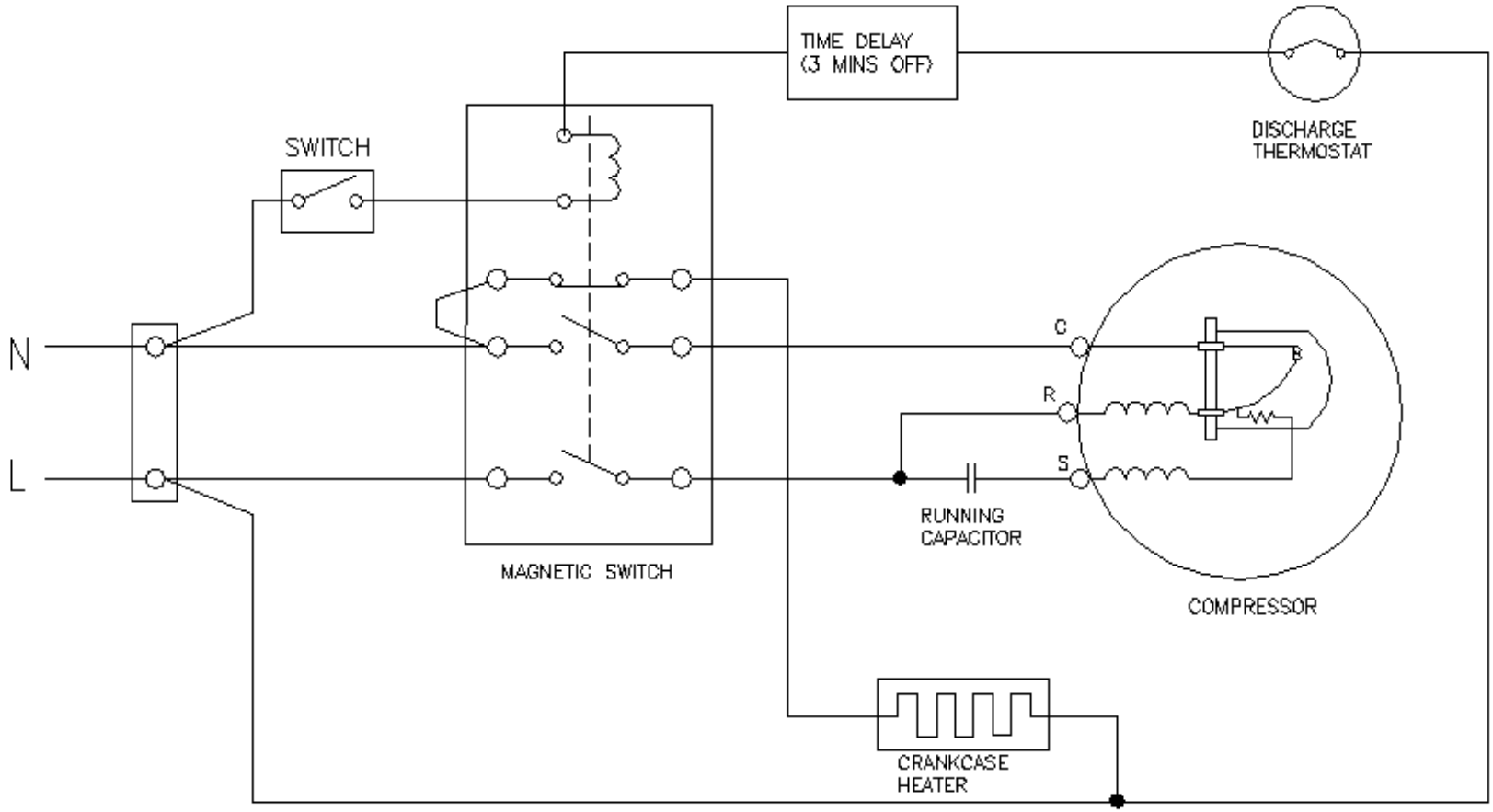


Part Code

D-0109-DSB

Name

Compressor Outline Drawing



Part Code
E-0916-DSB
Name
Wiring Diagram