



SIAM COMPRESSOR INDUSTRY

Classification : Specification for Compressor	Written By		Jiradet Arthan	
	Approved By		Korakot Intraratat	
Subject : SVB130FBBMT	Issued Date		2018-10-13	Revised A
	Document No.		SPC15O1582.02	
1.Compressor data				
Type			Twin Rotary	
Displacement		cm ³ /rev.	13.0	
		in ³ /rev.	0.8	
2.Motor data				
Motor type			BLDCM	
Motor protection			External	
Nominal output		W	900	
Number of pole			6	
Nominal revolution		rpm	3600	
Insulation class			E	
Motor resistance (20 °C)		Ohm	0.98	
3.Refrigerant				
Type			R-32	
4.Oil				
Type			FW68S	
Charge amount		L (in ³)	0.35 (21.4)	
5.Mass (include.oil)		kg (lbs)	8.0 (17.6)	
6.Compressor power source				
Rated voltage		V	40-190	
Rated frequency		Hz	60rps	
Running frequency		Hz	10-130rps	
7.Performance				
Refrigerating capacity (±5%)		W	4200	
		BTU/hr	14330	
Motor input (±5%)		W	1320	
COP		W/W	3.18	
EER		BTU/hr.W	10.86	
Current		A	6.4	
Note: Conditions		°C (°F)	ARI	
Evaporating temp.		°C (°F)	7.2 (45.0)	
Condensing temp.		°C (°F)	54.4 (129.9)	
Return gas temp.		°C (°F)	18.3 (64.9)	
Ambient temp.		°C (°F)	35.0 (95.0)	
Liquid temp.		°C (°F)	46.0 (114.8)	
Power source		rps/Hz	60 /180	
Cooling performance curve			SCI-CPDS004	
Heating performance curve			-	
-Performance data are base on SCI's calorie meter at oil 460 cc. Please follow to the general specification for SVB (TDRD15L002)				



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Subject : SVB130FBBMT	Document No.	SPC15O1582.02
Compressor data	SC01F229	
Comp. outline	CS01C345	
Wiring diagram	CS01F071	
Terminal parts accessories		
Terminal parts assy	CS01F780	
Terminal cover	CS01C275	1 pce.
Holder	CS01F753H01	1 pce.
Packing	CS01F122	1 pce.
Rubber washer	CR34D115H01	1 pce.
Flange nut	SC12D378H01	1 pce.
Mounting accessories		
Mounting parts	SC01F200	
Rubber mount	CS01D110H02	3 pce.
Spacer (Optional)	SC10D605H01	3 pcs.
Limitation curve of discharge pressure and temperature	VM-CZ439.3	

REFERENCE

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Pressure		
Condensing		0.20 ~ 4.17 MPaG [29.0 ~ 604.8 psiG]
Evaporating		0.20 ~ 1.59 MPaG [29.0 ~ 230.6 psiG]
Compression ratio		9.0 or less
Abnormal rise in pressure		-
Temperature		
Condensing temperature		-28 ~ 64 °C
Evaporating temperature		-28 ~ 25 °C
Discharge gas (max)		115 °C
Suction gas superheat		Must be more than 0 °C - No liquid-back
Discharge gas superheat		20 °C or more
Outdoor ambient temp.		Air Con.: 20 ~ 43 °C -Heat pump.: -10 ~ 43 °C
Electrical		
Reverse phase (rotation)		Not possible
ON / OFF		
ON/OFF frequency		Less than 170,000 cycles
ON/OFF cycle		-The ON/OFF cycle shall be a maximum of 10 times/hour. -OFF time shall be the time until the high side and low side pressure reach to balance pressure (more than 3 minutes)
Piping stress		3.5 kg/mm ² or less at start and stop condition (1.8 kg/mm ² during operation)
Refrigerant circuit		
Maximum refrigerant charge		Amount of refrigerant[g] < or = Amount of oil [g]*4 (the relative density of oil:1[g/cm ³]) Regarding operation which exceeds the above limit, consult with us. No accumulator 1.8 kg
Piping vibration		Maximum 0.8 mm.
Inclination of compressor		Within 5°