



Classification : Specification for Compressor		Written By		Ampol lamjaeng	
		Approved By		Dumrongsak Sompradit	
Subject : ANB42FCFMT		Issued Date		2012-10-10	
		Document No.		SPC03O1011.02	
				Revised G	
1.Compressor data					
Type		Scroll			
Displacement		cm ³ /rev.		42.0	
		in ³ /rev.		2.6	
2.Motor data					
Motor type		BLDCM			
Motor protection		External			
Nominal output		W		3200	
Number of pole		6			
Nominal revolution		rpm		3600	
Insulation class		E			
Motor resistance (20 °C)		Ohm		0.19	
3.Refrigerant					
Type		R-410A			
4.Oil					
Type		MEL56			
Charge amount		L (in ³)		1.70 (103.7)	
5.Mass (include.oil)		kg (lbs)		33.7 (74.3)	
6.Compressor power source					
Rated voltage		V		56-200	
Rated frequency		Hz		180 (60rps)	
Running frequency		Hz		60-240 (20-80rps)	
Phase		Ø		3	
7.Performance					
Refrigerating capacity (±5%)		W		13700 18400	
		BTU/hr		46744 62781	
Motor input (±5%)		W		4080 5600	
COP		W/W		3.36 3.29	
EER		BTU/hr.W		11.46 11.21	
Current		A		19.6 20.4	
Note: Conditions		ARI		ARI	
Evaporating temp.		°C (°F)		7.2 (45.0) 7.2 (45.0)	
Condensing temp.		°C (°F)		54.4 (129.9) 54.4 (129.9)	
Return gas temp.		°C (°F)		18.3 (64.9) 18.3 (64.9)	
Ambient temp.		°C (°F)		35.0 (95.0) 35.0 (95.0)	
Liquid temp.		°C (°F)		46.0 (114.8) 46.0 (114.8)	
Power source		rps/Hz		60/180 80/240	
Modulation		PWM(Sine wave), carrier frequency 4kHz			
Cooling performance curve		SCI-CPDA025			
Please follow to the general specification for ANB (VHIK-71676(T))					



Classification : Specification for Compressor	Issued Date	2012-10-10
Subject : ANB42FCFMT	Document No.	SPC03O1011.02
Outline drawing	SC01F136	
Wiring diagram	CS01D584	
Crank case heater		200V 25 W W
Terminal parts accessories		
Terminal parts assy	CS01F449	
Terminal cover	SC25C057H01	1 pce.
Mounting accessories		
Mounting parts	CS01F401	
Rubber mount	SC31D032H01	4 pcs.



Classification : Specification for Compressor	Issued Date	2012-10-10
Subject : ANB42FCFMT	Document No.	SPC03O1011.02
Pressure		
Condensing	4.16 MPaG [603 psiG] or less	
Evaporating	0.23 ~ 1.59 MPaG [33.4~230.6 psiG]	
Compression ratio	1.8 ~ 8.0	
Abnormal rise in pressure	5.9 MPaG [855.7 psiG] or less	
Temperature		
Condensing	Under 65 °C	
Evaporating temperature	-25 ~ 26.3 °C	
Discharge gas (max)	120 °C In case -20°C ~ +26.3°C and speed limit 20 ~ 120 rps 110 °C In case -25°C ~ -20°C and speed limit 20 ~ 120 rps	
Suction gas superheat	Must be more than 0 °C - No liquid-back	
Discharge gas superheat	10 °C or more	
Outdoor ambient temp.	Under 43 °C	
Electrical		
Reverse phase (rotation)	Not possible	
ON / OFF		
ON/OFF frequency	Less than 250,000 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	6 kg No accumulator <2 kg	
Piping vibration	Maximum 0.8 mm.	
Inclination of compressor	Within 5°	