



Classification : Specification for Compressor		Written By		Chinnapong Khongsila	
		Approved By		Dumrongsak Sompradit	
Subject : NN33VAAMT		Issued Date		2011-06-08	
		Document No.		SPC05O384.02	
				Revised D	
1.Compressor data					
Type		Rotary			
Displacement	cm <sup>3</sup> /rev.	33.8			
	in <sup>3</sup> /rev.	2.1			
2.Motor data					
Motor type	Single phase induction motor (Permanent Split Capacitor)				
Motor protection	Internal				
Nominal output	W	2200			
Nominal revolution	rpm	2900			
LRA	A	76/83			
Insulation class	E				
Motor resistance (20 °C)					
Main winding	Ohm	0.68			
Aux winding	Ohm	1.80			
3.Refrigerant					
Type	R-410A				
4.Oil					
Type	FV50S				
Charge amount	L (in <sup>3</sup> )	1.30 (79.3)			
5.Mass (include.oil)	kg (lbs)	31.9 (70.3)			
6.Compressor power source					
Rated voltage	V	220-240 (within ±10%)			
Rated frequency	Hz	50 (±2%)			
Phase	Ø	1			
7.Performance					
Refrigerating capacity (±5%)	W	8490	8560		
	BTU/hr	28968	29207		
Motor input (±5%)	W	2800	2890		
COP	W/W	3.03	2.96		
EER	BTU/hr.W	10.35	10.11		
Current	A	13.1	12.9		
Note: Conditions					
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)	35.0 (95.0)	35.0 (95.0)		
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	V/Hz	220/50	240/50		
Cooling performance curve	PCS149A				
8.Lowest starting voltage	V	Drop 176 (at 16.7 kg/cm <sup>2</sup> G balancing pressure)			

Please follow to the general specification for NN (VNOK-CF0429)



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Outline drawing	SC01D579	
Wiring diagram	SC01D050	
Running capacitor	SC01D502H08	55 MFD 420 VAC
Crank case heater		38 W
Terminal parts accessories		
Terminal parts assy	SC01D020	
Terminal cover	CR25C046H01	1 pce.
Gasket	SC26D054H01	1 pce.
Clip	CR38D179H01	1 pce.
Mounting accessories (1)		
Mounting parts	SC01D465	
Rubber mount	SC31D009H01	4 pcs.
Mounting accessories (2)		
Mounting parts	CS01D371	
U. rubber	CR31D176H01	4 pcs.
Spring	CR39D181H01	4 pcs.
L. rubber	CR31D175H01	4 pcs.
Optional accessories [Use with (2)]		
Top support parts	SC01D019	
Rubber support	CR31D180H01	1 pce.
Cap	CS01D238H01	1 pce.



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<b>Pressure</b>		
Condensing	0.20 ~ 4.15 MPaG [29.0 ~ 602 psiG]	
Evaporating	0.20 ~ 1.60 MPaG [29.0 ~ 232.1 psiG]	
Compression ratio	9.0 or less	
Abnormal rise in pressure	5.88 MPaG [852.8 psiG] or less	
<b>Temperature</b>		
Condensing	-27 ~ 65 °C	
Evaporating temperature	-27 ~ 26 °C	
Discharge gas (max)	120 °C (In case of Heat pump or De-humidifier, this limit is 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	
<b>Electrical</b>		
Reverse phase (rotation)	Not possible	
<b>ON / OFF</b>		
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 <sup>2</sup> or less at start and stop condition (1.8 kg/mm <sup>2</sup> during operation)	
<b>Refrigerant circuit</b>		
Maximum refrigerant charge	See details in general specification No. VNOK-CF0429 (2/7)	
Piping vibration	Maximum 0.8 mm.	
Inclination of compressor	Within 5°	