



SIAM COMPRESSOR INDUSTRY

Classification : Specification for Compressor		Written By		Chinnapong Khongsila	
		Approved By		Dumrongsak Sompradit	
Subject : NN29VAAMT		Issued Date		2011-06-08	
		Document No.		SPC05O377.02	
				Revised D	
1.Compressor data					
Type		Rotary			
Displacement		cm ³ /rev.		29.5	
		in ³ /rev.		1.8	
2.Motor data					
Motor type		Single phase induction motor (Permanent Split Capacitor)			
Motor protection		Internal			
Nominal output		W		1900	
Nominal revolution		rpm		2900	
LRA		A		69/75	
Insulation class		E			
Motor resistance (20 °C)					
Main winding		Ohm		0.80	
Aux winding		Ohm		1.64	
3.Refrigerant					
Type		R-410A			
4.Oil					
Type		FV50S			
Charge amount		L (in ³)		1.30 (79.3)	
5.Mass (include.oil)		kg (lbs)		31.3 (69.0)	
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		7400 7460	
		BTU/hr		25249 25454	
Motor input (±5%)		W		2440 2500	
COP		W/W		3.03 2.98	
EER		BTU/hr.W		10.35 10.18	
Current		A		11.2 10.9	
Note: Conditions		ASRE-T		ASRE-T	
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		PCS147A			
8.Lowest starting voltage		V		Drop 176 (at 16.7 kg/cm ² 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 400 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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Pressure		
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	
Temperature		
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	
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	See details in general specification No. VNOK-CF0429 (2/7)	
Piping vibration	Maximum 0.8 mm.	
Inclination of compressor	Within 5°	