



Classification : Specification for Compressor		Written By	Suriwipha Chanlakon
		Approved By	Dumrongsak Sompradit
Subject : NH56YDAT		Issued Date	2010-03-16
		Document No.	SPC03O355.02
			Revised F
1.Compressor data			
Type			Rotary
Displacement	cm <sup>3</sup> /rev.		56.9
	in <sup>3</sup> /rev.		3.5
2.Motor data			
Motor type			Three phase induction motor
Motor protection			Internal
Nominal output	W		2700
Nominal revolution	rpm		2880
LRA	A		43/48 (at 380/415V)
Insulation class			E
Motor resistance (20 °C)	Ohm		3.50
3.Refrigerant			
Type			R-22
4.Oil			
Type			NM56EP
Charge amount	L (in <sup>3</sup> )		1.30 (79.3)
5.Mass (include.oil)	kg (lbs)		32.2 (71.0)
6.Compressor power source			
Rated voltage	V		380-415 (within ±10%)
Rated frequency	Hz		50
Phase	Ø		3
7.Performance			
Refrigerating capacity (±5%)	W		10650
	BTU/hr		36338
Motor input (±5%)	W		3300
COP	W/W		3.23
EER	BTU/hr.W		11.01
Current	A		5.85
Note: Conditions			ASRE-T
Evaporating temp.	°C (°F)		7.2 (45.0)
Condensing temp.	°C (°F)		54.4 (129.9)
Return gas temp.	°C (°F)		35.0 (95.0)
Ambient temp.	°C (°F)		35.0 (95.0)
Liquid temp.	°C (°F)		46.1 (115.0)
Power source	V/Hz		400/50
Cooling performance curve			PCS136A
8.Lowest starting voltage	V		Drop 304 (at 10.3kg/cm <sup>2</sup> G balancing pressure)
Please follow to the general specification for NH (NOKS-CF0156)			



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Outline drawing	SC01D315	
Wiring diagram	SC01D319	
Phase protector	CS01D350H03 / SC73C243H01	
Terminal parts accessories		
Terminal parts assy	SC01D024	
Terminal cover	CR25C138H03	1 pce.
Packing	CR34D377H01	1 pce.
Rubber washer	CR34D115H01	1 pce.
Flange nut	SC12D378H01	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.



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Pressure		
Condensing	1.03 ~ 2.60 MPaG [149.3 ~ 377 psiG]	
Evaporating	0.26 ~ 0.69 MPaG [37.7 ~ 100 psiG]	
Compression ratio	8 or less	
Abnormal rise in pressure	3.92 MPaG [568.5 psiG] or less	
Temperature		
Condensing	28 ~ 65 °C	
Evaporating temperature	-10 ~ 15 °C	
Discharge gas (max)	120 °C (In case of Heat pump or De-humidifier, this limit is 115 °C)	
Suction gas superheat	Must be over 0 °C - No liquid-back	
Discharge gas superheat	20 ° or more	
Outdoor ambient temp.	-Air Cond.:20 °C ~ 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 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)	
Refrigerant circuit		
Maximum refrigerant charge	3.0 kg No accumulator <2.0 kg	
Piping vibration	Maximum 0.8 mm.	
Inclination of compressor	Within 5°	