Classification : Specification for Compressor	Written By	Buncha Sungklum	
	Approved By	Dumrongsak Sompradit	
Subject : BN52YELMT	Issued Date	2011-10-25	Revised
	Document No.	SPC07O1360.02	D

1.Compressor data		
Type		Scroll
Displacement	cm³/rev.	52.0
	in³/rev.	3.2
2.Motor data		
Motor type		Three phase induction motor
Motor protection		External
Nominal output	W	3700
Number of pole		2
Nominal revolution	rpm	2900
LRA	A	67 (at 400V 50Hz)
Insulation class		E
Motor resistance (20 °C)	Ohm	2.12
3.Refrigerant		
Type		R-410A
4.Oil		
Type		FV50S
Charge amount	L (in³)	2.10 (128.1)
5.Mass (include.oil)	kg (lbs)	47.4 (104.5)
6.Compressor power source		
Rated voltage	V	380-415 (±10%)
Rated frequency	Hz	50 (±2%)
Phase	Ø	3
7.Performance		
Refrigerating capacity (±5%)	W	13900
	BTU/hr	47427
Motor input (±5%)	W	4360
COP	W/W	3.19
EER	BTU/hr.W	10.88
Current	A	7.5
Note: Conditions		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	V/Hz	400/50
Cooling performance curve		SCI-CPDB006
8.Lowest starting voltage	V	Drop 304

Please follow to the general specification for BN (VHIK-71680(T))

Classification : Specification for Compressor	Issued Date	2011-10-25
Subject : BN52YELMT	Document No.	SPC07O1360.02

Outline drawing	SC01F114	
Wiring diagram	CS01F037	
Crank case heater		38 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	2011-10-25
Subject : BN52YELMT	Document No.	SPC07O1360.02

Pressure	
Condensing	4.15 MPaG [602 psiG] or less
Evaporating	0.30 ~ 1.05 MPaG [43.5~152.3 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	-20 ~ 12 °C
Discharge gas (max)	120 °C
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/mm² or less at start and stop condition (1.8 kg/mm² during operation)
Refrigerant circuit	
Maximum refrigerant charge	7 kg
	No accumulator <2 kg
Piping vibration	Maximum 0.8 mm.
Inclination of compressor	Within 5°