SPECIFICATIONS OF COMPRESSOR

Model No: 3CB067SA0M

Output : 4 HP

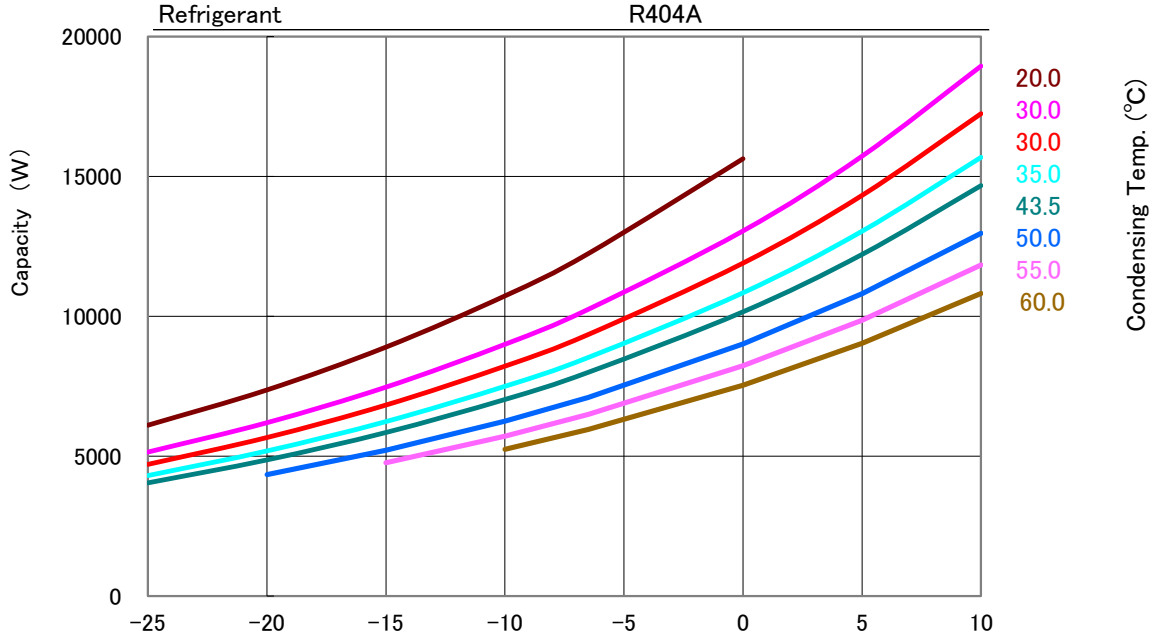
02/Sep/19

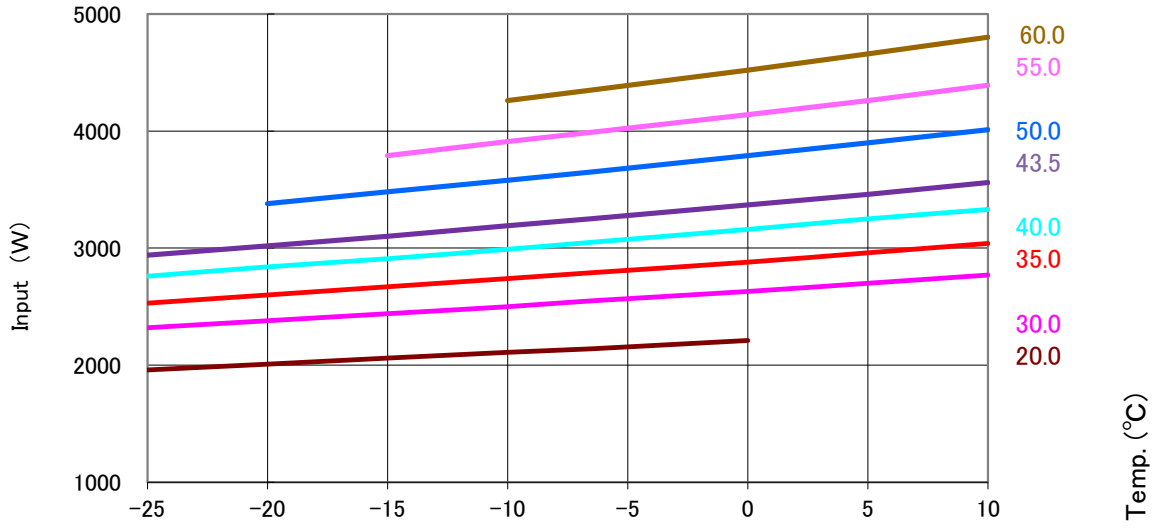
GENERAL SPECIFICATIONS

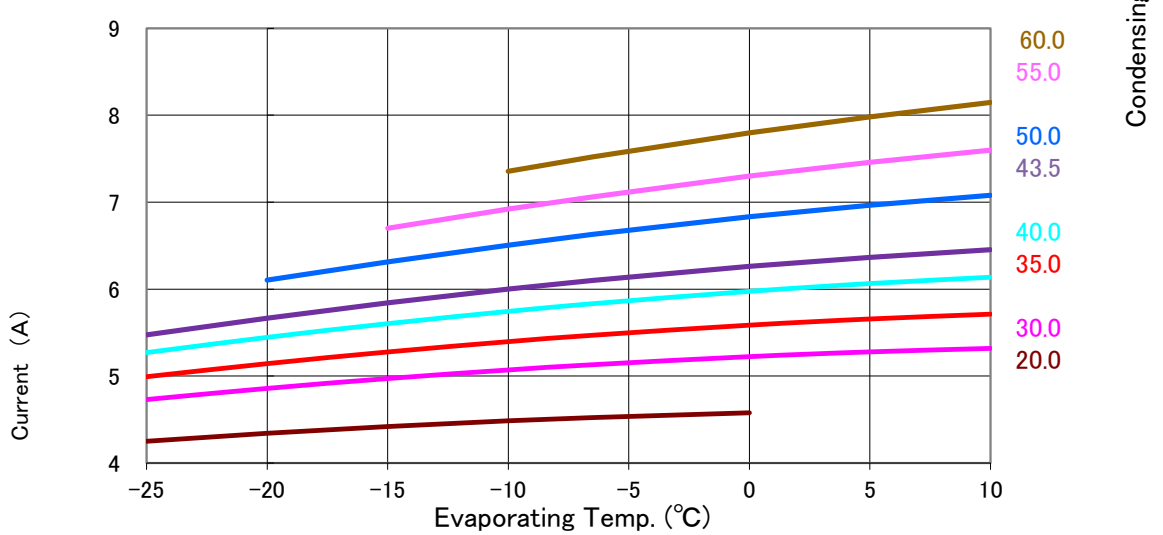
Model No:		3CB067SA0M
Application		
Evaporating Temp Range	(℃)	−25 ～ 10
Refrigerant		R404A
Compressor Cooling		Natural Cooling
Rated Performance		
Capacity	(W)	8,000
Input	(W)	3,250
Current	(A)	6.1
Revolution	(min^{-1})	2950
Sound Level	(dB(A))	65max
Rating Conditions		
Power Source		3-PH 50Hz 380-415V
Evaporating Temp	(℃)	−6.5
Condensing Temp	(℃)	43.5
Suction Gas Temp	(℃)	18.5
Liquid Temp	(℃)	43.5
Ambient Temp	(℃)	35.0
Measuring Point of Sound Level		
Distance from the Compressor	(m)	1.0
Compressor		
Design		Hermetic Scroll
Displacement	(cm3)	66.7
Suction Line Connection	(Φmm 0D)	22.22
Discharge Line Connection	(Φmm 0D)	12.7
Oil	(ml)	1700 (FV68S)
Mass(Incl.Oil)	(kg)	37.5
Motor		
Type		3-PH Induction Motor(3IR)
Pole		2
Rated Power Source		3-PH 50Hz 380-415V
Voltage Range	(V)	342～456
Starting Current	(A)	−

PERFORMANCE CURVE

Code No.	3CB067SA0M
Power Source	3-PH 50Hz 380-415V
Condensing Temp.(℃)	20、30、35、40、43.5、50、55、60
Suction Gas Temp.(℃)	18.5
Sub Cooled(K)	0
Compressor Cooling	Natural Cooling
Refrigerant	R404A







PERFORMANCE DATA

Code No.	3CB067SA0M
Power Source	3-PH 50Hz 380-415V
Condensing Temp.(℃)	20、30、35、40、43.5、50、55、60
Suction Gas Temp.(℃)	18.5
Sub Cooled(K)	0
Compressor Cooling	Natural Cooling
Refrigerant	R404A

Capacity （W）

Condensing Temp.(℃) \ Evaporating Temp.(℃)	-25	-20	-15	-10	-6.5	0	5	10
20.0	6,110	7,370	8,900	10,730	12,240	15,630		
30.0	5,150	6,200	7,470	9,000	10,250	13,050	15,720	18,940
35.0	4,710	5,670	6,830	8,220	9,350	11,900	14,320	17,240
40.0	4,310	5,190	6,240	7,500	8,530	10,840	13,040	15,680
43.5	4,050	4,870	5,850	7,030	8,000	10,160	12,210	14,670
50.0		4,340	5,210	6,250	7,100	9,010	10,810	12,970
55.0			4,770	5,720	6,490	8,230	9,860	11,830
60.0				5,250	5,960	7,540	9,030	10,820

Input （W）

Condensing Temp.(℃) \ Evaporating Temp.(℃)	-25	-20	-15	-10	-6.5	0	5	10
20.0	1,960	2,010	2,060	2,110	2,140	2,210		
30.0	2,320	2,380	2,440	2,500	2,550	2,630	2,700	2,770
35.0	2,530	2,600	2,670	2,740	2,790	2,880	2,960	3,040
40.0	2,760	2,840	2,910	2,990	3,050	3,160	3,250	3,330
43.5	2,940	3,020	3,100	3,190	3,250	3,370	3,460	3,560
50.0		3,380	3,480	3,580	3,650	3,790	3,900	4,010
55.0			3,790	3,910	3,990	4,140	4,260	4,390
60.0				4,260	4,350	4,520	4,660	4,800

Current （A）

Condensing Temp.(℃) \ Evaporating Temp.(℃)	-25	-20	-15	-10	-6.5	0	5	10
20.0	4.3	4.3	4.4	4.5	4.5	4.6		
30.0	4.7	4.9	5.0	5.1	5.1	5.2	5.3	5.3
35.0	5.0	5.1	5.3	5.4	5.5	5.6	5.7	5.7
40.0	5.3	5.4	5.6	5.7	5.8	6.0	6.1	6.1
43.5	5.5	5.7	5.8	6.0	6.1	6.3	6.4	6.5
50.0		6.1	6.3	6.5	6.6	6.8	7.0	7.1
55.0			6.7	6.9	7.1	7.3	7.5	7.6
60.0				7.4	7.5	7.8	8.0	8.1

Coefficients of Polynominal Formula

	Capacity （W）	Input （W）	Current （A）
C1	2.196062E+04	1.666937E+03	3.610503E+00
C2	8.149155E+02	6.820415E+00	1.510025E-03
C3	-3.526509E+02	1.687277E+01	3.777611E-02
C4	1.252937E+01	-6.504592E-03	-1.535500E-04
C5	-1.267336E+01	9.588959E-02	9.192373E-05
C6	1.866295E+00	5.111120E-01	5.328757E-04
C7	7.575686E-02	1.623029E-04	3.750209E-09
C8	-1.250349E-01	1.363539E-03	-4.662661E-06
C9	5.901565E-02	3.962127E-03	9.042787E-06
C10	4.552951E-08	-2.190368E-08	-2.275313E-13

Note:The polynomial coefficients subject to change without notice.

$X=C1+C2*(S)+C3*D+C4*(S^2)+C5*(S*D)+C6*(D^2)+C7*(S^3)+C8*(D*S^2)+C9*(S*D^2)+C10*(D^3)$

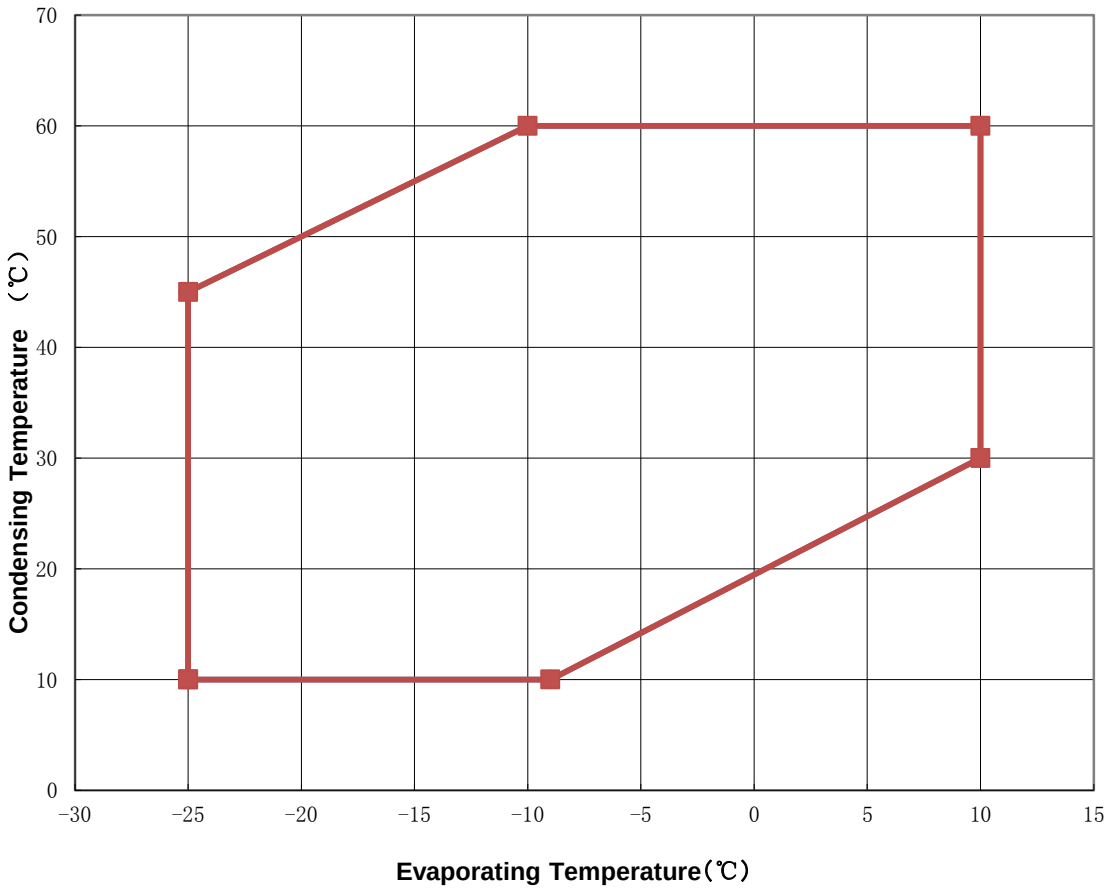
X——CAPACITY(W) OR POWER(W) OR CURRENT(A)

S——EVAPORATING TEMP, °C

D——CONDENSING TEMP, °C

Operating Envelope

Refrigerant : R404A

Suction Gas Temp:18.5℃

Sub Cooled: 0 K