SPECIFICATIONS OF COMPRESSOR

Model No: 3CB084SA0M

Output : 5 HP

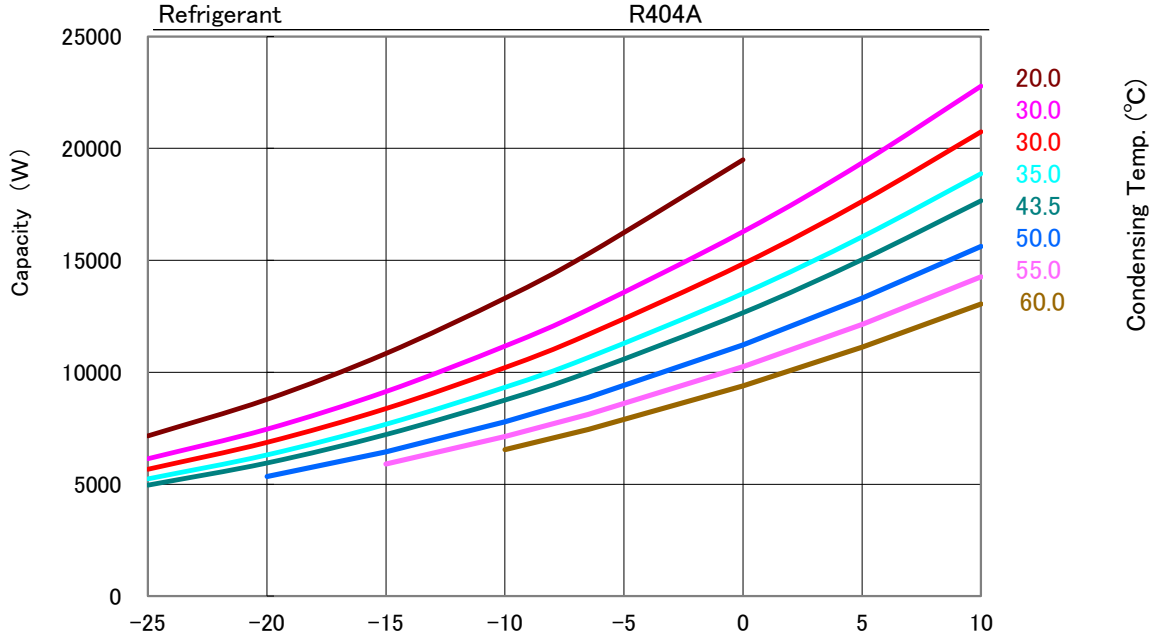
02/Sep/19

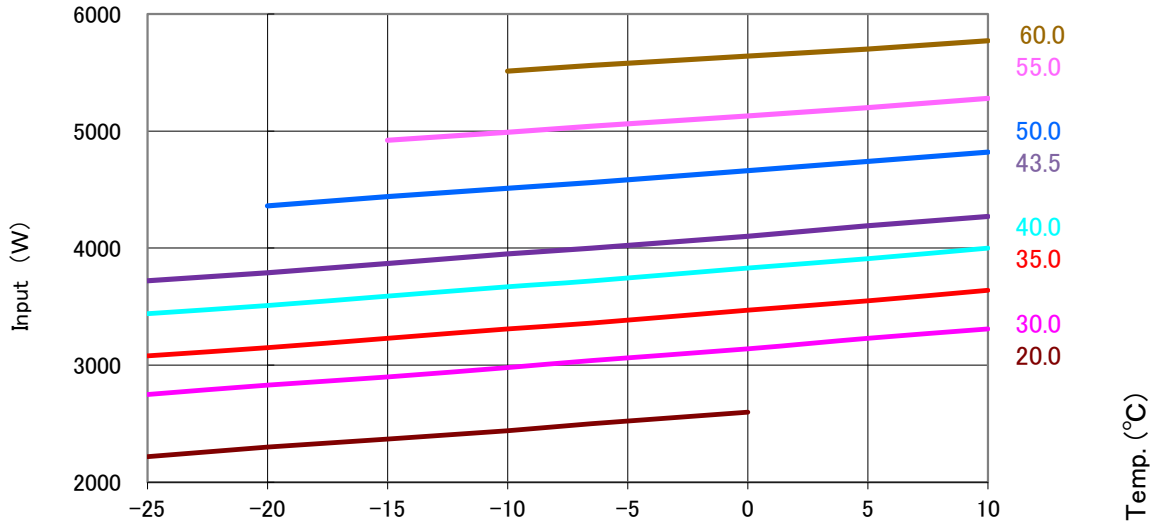
GENERAL SPECIFICATIONS

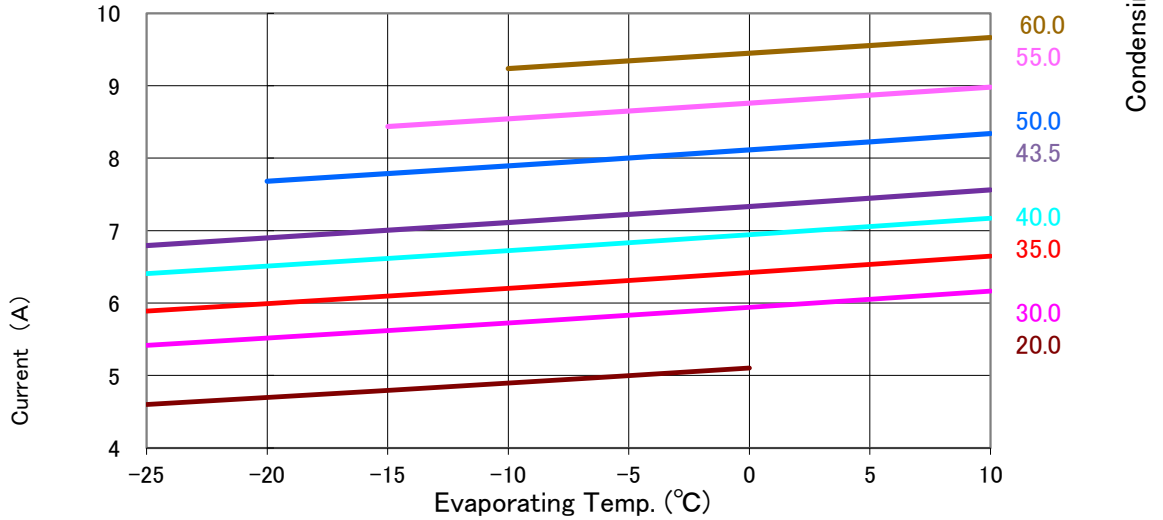
Model No:		3CB084SA0M
Application		
Evaporating Temp Range	(℃)	−25 ～ 10
Refrigerant		R404A
Compressor Cooling		Natural Cooling
Rated Performance		
Capacity	(W)	10,000
Input	(W)	4,000
Current	(A)	7.2
Revolution	(min^{-1})	2950
Sound Level	(dB(A))	65max
Rating Conditions		
Power Source		3-PH 50Hz 380-415V
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)	84.4
Suction Line Connection	(Φmm 0D)	22.22
Discharge Line Connection	(Φmm 0D)	12.7
Oil	(ml)	1700 (FV68S)
Mass(Incl.Oil)	(kg)	38
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.	3CB084SA0M
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.	3CB084SA0M
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	7,160	8,790	10,840	13,310	15,290	19,490		
30.0	6,140	7,460	9,140	11,170	12,800	16,280	19,350	22,780
35.0	5,670	6,870	8,380	10,210	11,690	14,840	17,630	20,740
40.0	5,240	6,310	7,680	9,330	10,660	13,520	16,050	18,870
43.5	4,960	5,950	7,220	8,760	10,000	12,660	15,030	17,660
50.0		5,340	6,440	7,790	8,880	11,220	13,310	15,630
55.0			5,910	7,130	8,120	10,250	12,140	14,260
60.0				6,550	7,450	9,390	11,120	13,050

Input （W）

Condensing Temp. (℃) \ Evaporating Temp. (℃)	-25	-20	-15	-10	-6.5	0	5	10
20.0	2,220	2,300	2,370	2,440	2,500	2,600		
30.0	2,750	2,830	2,900	2,980	3,040	3,140	3,230	3,310
35.0	3,080	3,150	3,230	3,310	3,360	3,470	3,550	3,640
40.0	3,440	3,510	3,590	3,670	3,720	3,830	3,910	4,000
43.5	3,720	3,790	3,870	3,950	4,000	4,100	4,190	4,270
50.0		4,360	4,440	4,510	4,560	4,660	4,740	4,820
55.0			4,920	4,990	5,040	5,130	5,200	5,280
60.0				5,510	5,560	5,640	5,700	5,770

Current （A）

Condensing Temp. (℃) \ Evaporating Temp. (℃)	-25	-20	-15	-10	-6.5	0	5	10
20.0	4.6	4.7	4.8	4.9	5.0	5.1		
30.0	5.4	5.5	5.6	5.7	5.8	5.9	6.1	6.2
35.0	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6
40.0	6.4	6.5	6.6	6.7	6.8	6.9	7.1	7.2
43.5	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.6
50.0		7.7	7.8	7.9	8.0	8.1	8.2	8.3
55.0			8.4	8.5	8.6	8.8	8.9	9.0
60.0				9.2	9.3	9.4	9.6	9.7

Coefficients of Polynominal Formula

	Capacity （W）	Input （W）	Current （A）
C1	2.728289E+04	1.948142E+03	3.933316E+00
C2	9.740510E+02	1.265418E+01	1.892113E-02
C3	-4.360210E+02	1.813950E+01	4.192777E-02
C4	1.028565E+01	6.599478E-02	5.922528E-05
C5	-1.534599E+01	2.462860E-01	1.605151E-04
C6	2.298229E+00	7.221826E-01	8.333478E-04
C7	-1.387450E-03	5.882538E-04	1.147245E-07
C8	-1.105269E-01	-5.117407E-04	-5.610724E-07
C9	7.375333E-02	-3.836191E-03	-1.887539E-06
C10	-6.528857E-08	2.199627E-08	1.800340E-11

Note:The polynomial coefficients subject to change without notice.

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

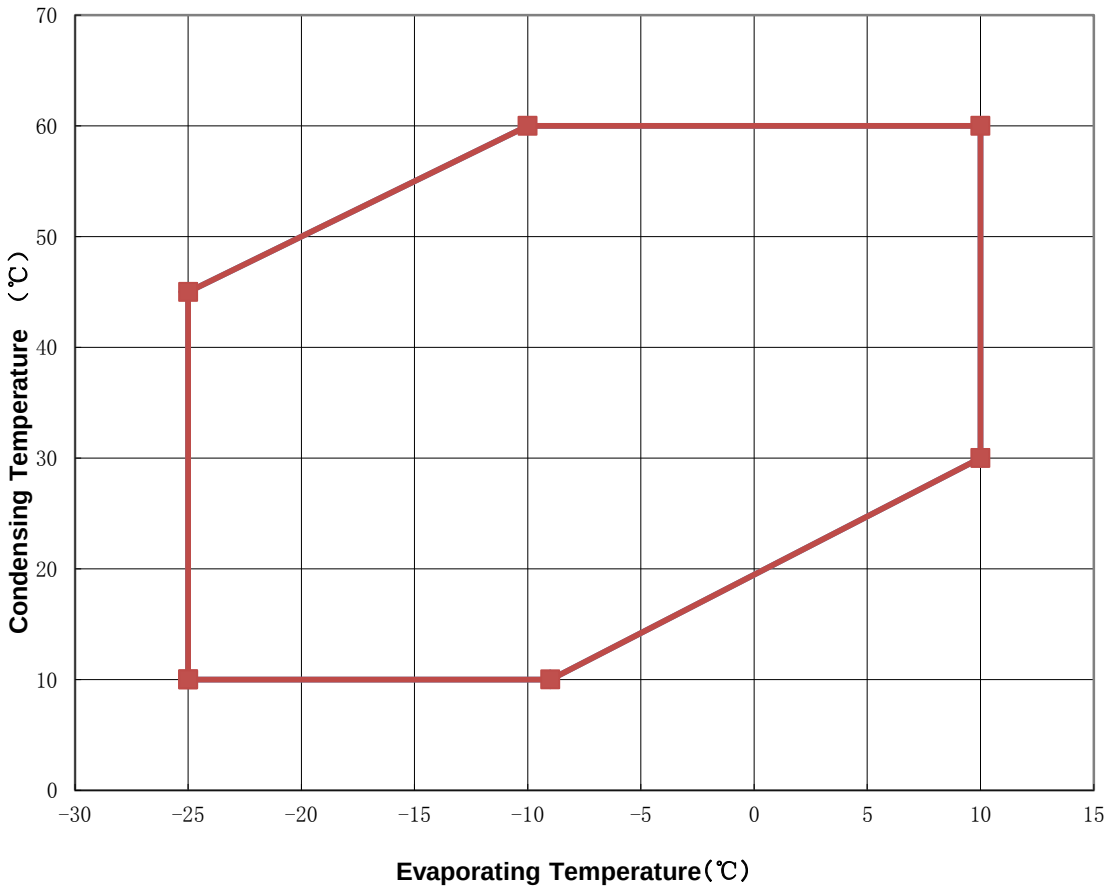
X——CAPACITY(W) OR POWER(W) OR CURRENT(A)

S——EVAPORATING TEMP, °C

D——CONDENSING TEMP, °C

Operating Envelope

Refrigerant : R404A

Suction Gas Temp:18.5℃

Sub Cooled: 0 K