

### Model SQA032KA Power 1ph, 208~230V, 60Hz

#### Application Range

Compressor Cooling	Natural			
Evaporating Temp.	-23 ~ 12	°C	-9 ~ 54	°F
Condensing Temp.	65	°C max.	149	°F max.
Return Gas Temp.	25	°C max.	77	°F max.
Discharge Gas Temp.	130	°C max.	266	°F max.
Motor Wire Temp.	135	°C max.	275	°F max.

#### Rated Performance\_A 7.2°C / 54.4°C (45°F / 130°F)

Capacity	32,300	Btu/h	9,467	Watts
Motor Input	2,910		W	
Current	13.0		A	
E.E.R (C.O.P)	11.1	Btu/W.h	3.3	W/W

#### Rated Performance\_B 7.2°C / 37.8°C (45°F / 100°F)

Capacity	38,500	Btu/h	11,284	Watts
Motor Input	2,005		W	
Current	8.9		A	
E.E.R (C.O.P)	19.2	Btu/W.h	5.6	W/W

#### Capacity Test Conditions\_A 7.2°C / 54.4°C (45°F / 130°F)

Evaporating Temp.	7.2	°C	45	°F
Condensing Temp.	54.4	°C	130	°F
Return Gas Temp.	18.3	°C	65	°F
Liquid Line Temp.	46.1	°C	115	°F
Ambient Temp.	35.0	°C	95	°F

#### Capacity Test Conditions\_B 7.2°C / 37.8°C (45°F / 100°F)

Evaporating Temp.	7.2	°C	45	°F
Condensing Temp.	37.8	°C	100	°F
Return Gas Temp.	18.3	°C	65	°F
Liquid Line Temp.	29.5	°C	85	°F
Ambient Temp.	35.0	°C	95	°F

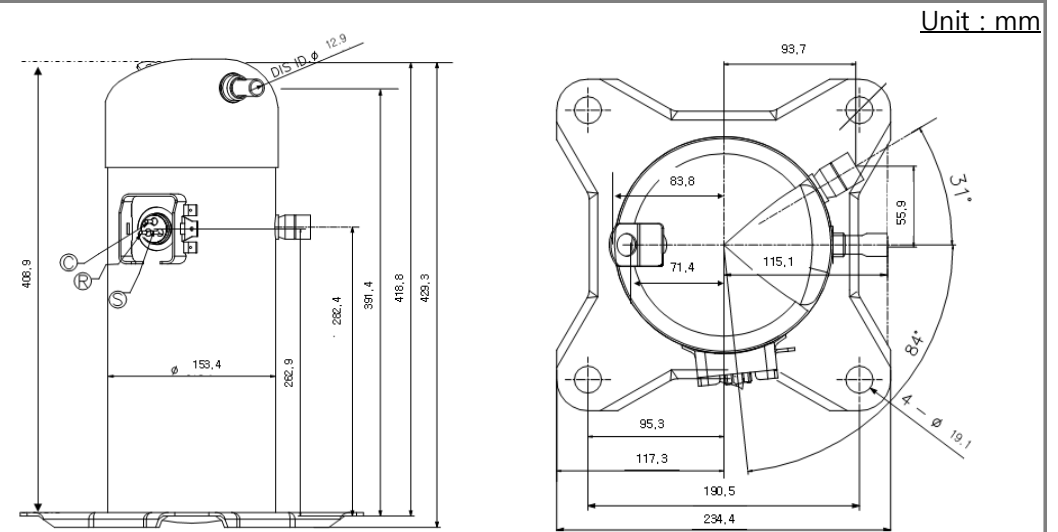
#### Electrical Components

Running Capacitor	45	µF	400	VAC
Overload Protector	Internal		15HM-2380	

\* Specifications are subject to change without notice

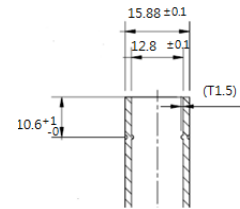
\* General Performance Variation : ± 3%

### Standard Dimensions



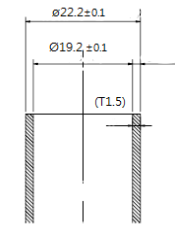
#### Details of Discharge Tube

Unit : mm

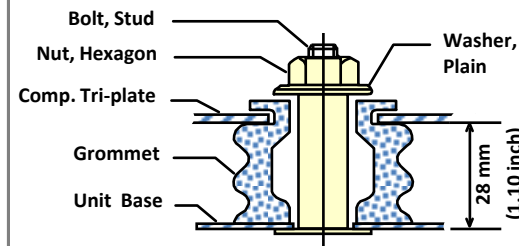


#### Details of Suction Tube

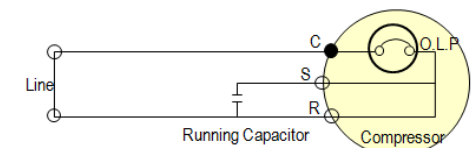
Unit : mm



#### Compressor Mounting



#### Wiring Diagram



### Sound & Vibration Level\_A

Sound Level	72 ± 2	dB
Amplitude	Max 30	μm
Acceleration		GAL

### Sound & Vibration Test Conditions\_A

Evaporating Temp.	7.2	°C	45	°F
Condensing Temp.	54.4	°C	130	°F
Return Gas Temp.	18.3	°C	65	°F
Liquid Line Temp.	46.1	°C	115	°F
Ambient Temp.	35.0	°C	95	°F

### Compressor Basic Information

Type	Low Side Shell/ Constant / Scroll			
Displacement	44.87	cc/rev		
Oil Type	4GSI or NM56 or POE(RB32G)			
Oil Charge	1100	cc	37.2	fl.oz
Weight	27.5	Kg	60.6	lb

### Motor Basic Information

Type	1 Phase Induction Motor		
Rated Output	2500	W	
Winding Resistance (Ω) (@25°C, 77°F)	0.882	± 7%	(U-V), Main
	2.249	± 7%	(V-W), Sub
		± 7%	(W-U)
Voltage Range	187 ~ 253	V	
Locked Rotor Amps.	72	A	

### Etc..

### Sound & Vibration Level\_B

Sound Level		dB
Amplitude		μm
Acceleration		GAL

### Sound & Vibration Test Conditions\_B

Evaporating Temp.		°C		°F
Condensing Temp.		°C		°F
Return Gas Temp.		°C		°F
Liquid Line Temp.		°C		°F
Ambient Temp.		°C		°F

### Operation Limits

Discharge Pressure	Max. 370 psi ( 26.0 kg.f/cm <sup>2</sup> )
Suction Pressure	17 ~ 91 psi ( 1.2 ~ 6.4 kg.f/cm <sup>2</sup> )
Motor Coil Temp.	Max. 135°C( 275°F )
Discharge Temp.	Max. 130°C( 266°F )
Refrigerant Charge Limit	Max. 3,600 g ( 126.9 oz )
Continuous Flood Back	Continuous Flood Back before the compressor should not be more than 10% of the total circulation quantity of refrigerant.
On/Off Interval & Cycles	On / Off = 3 Minutes / 3 Minutes 20,000 Cycles or less
Voltage Range	Rated Voltage(V2) ± 10 %
Frequency Range	Rated Frequency ± 2 %
Compression Ratio in Operating	The Compression ratio in operating shall be 6.7 or less, except 3 minutes starting period.
Pressure Difference at Start up	When starting, discharge pressure is balanced with suction pressure
Inclination in Operation	The allowable tilt of the compressor in operation shall be 3° or less

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\* General Performance Variation : ± 3%