



SIAM COMPRESSOR  
INDUSTRY CO., LTD.

# SCI Inverter Driver Solution

## SCI Inverter Driver



- High efficiency**
- High Quality**
- Customized function**
- Various Appearance**
- Fine compressor matching**

## SCI BLDC Compressor

- High performance**
- High reliability**
- Full line up**
- Various application**
- Wide operating area**

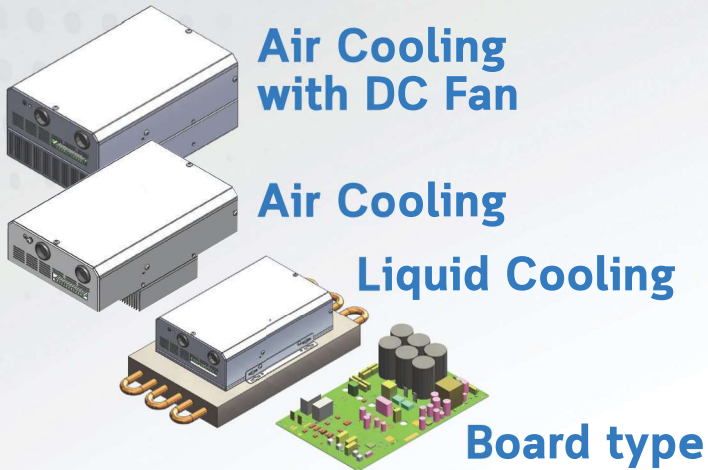


For best operation and full effectiveness of inverter compressors, SCI driver is well-developed to support large capacity up to 52,000 BTU./Hr. Available in 2 heat exchanging systems; liquid cooling and air cooling, our driver offers longer lifetime and higher safety standard (EN 60335-1, EN 60335-2-34, EN 6055014-1 / EN 6055014-2), making it one of the worthiest in the market.

# SCI Inverter Solution

Complete Matching between driver & Compressor  
Package Solution

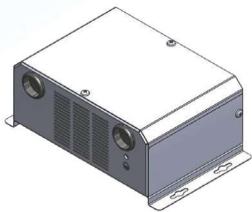
## Standard



### Feature

- Operating temperature -20°C to +60°C, 2 to 95%RH (Non-condensing, Non-freezing)
- Efficiency more than 95%
- Low harmonic distortion (Power factor up to 0.99)
- Built-in Overcurrent protection
- Built-in Compressor control envelop
- Built-in Motor Heat function
- Built-in Oil management control
- Water/Refrigerant loop cooling for liquid cooling type

## Optional

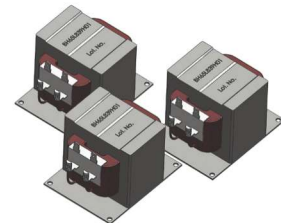


### Noise Filter

**EMC Standard : IEC61800-3**

- Emission Class C1
- Radiation Class B (Household)

**Leakage Current <3mA**



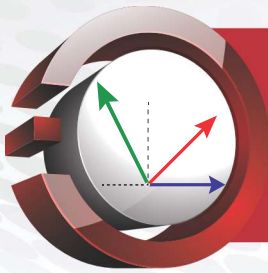
### Reactor

- AC Reactor (3pcs/set) : IEC61000-3-2 ( $\leq 16A$  input)
- DC Reactor (1pc/set) : IEC61000-3-12 ( $\leq 75A$  input)



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# Control Features



## Close Loop Sensorless Vector Control

For Total High performance and efficiency



## Compressor Model Selection

To operate more compressor models by one driver



## Motor Heat Up

To replace external crank case heater



## High Speed Control

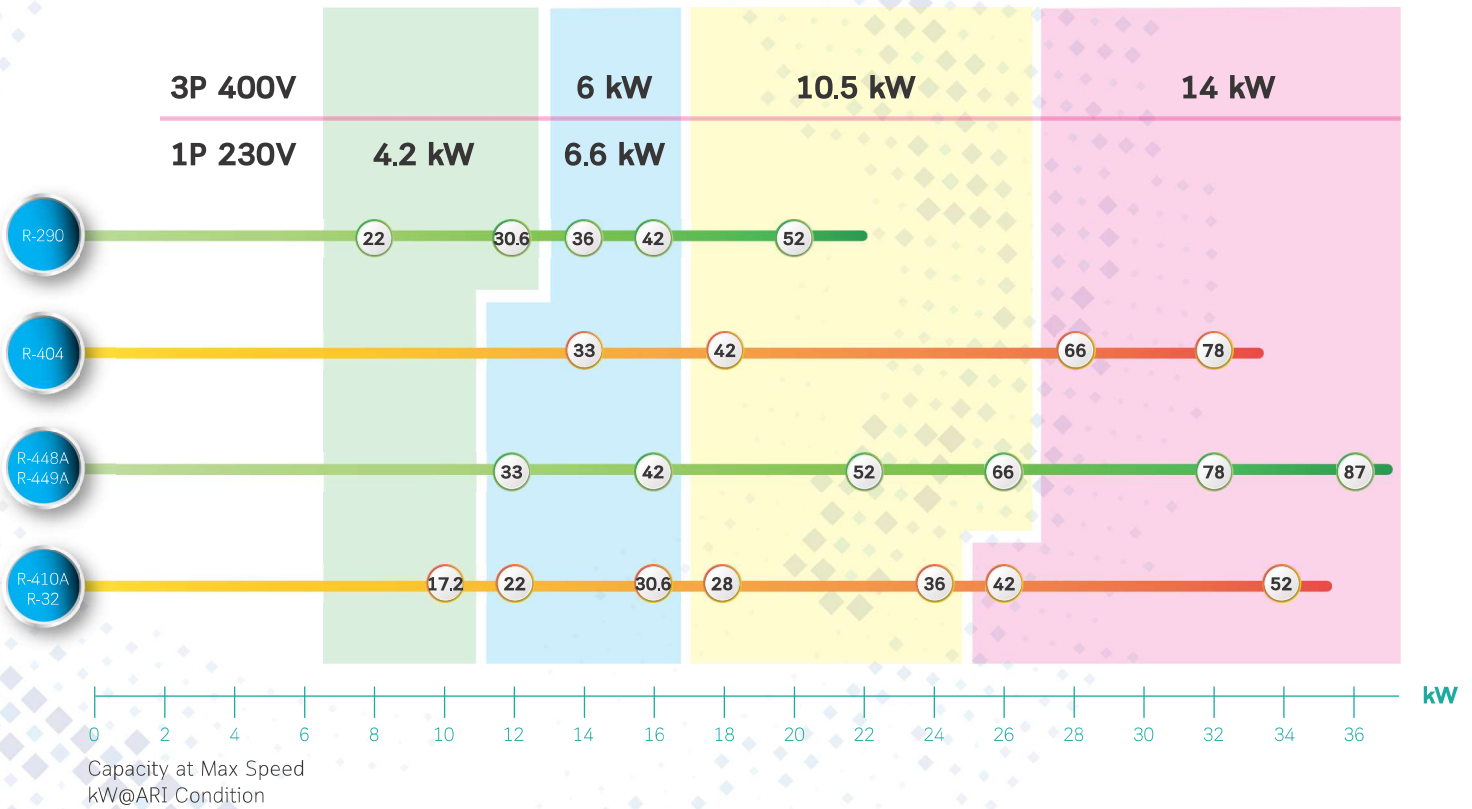
For improving speed and Performance on high speed region

# Dimensions

	Length (mm.)	Width (mm.)	Height (mm.)	Weight (kg.)
<b>Standard</b>				
Air Cooled with DC Fan	302	198	133	4.7
Air Cooled	302	198	132	3.9
Liquid Cooled	302	198	90	3.3
<b>Optional</b>				
Noise Filter	142	198	90	1.33
AC Reactors	112	86	74	2.5
DC Reactor	86	76	65	2.9



# SCI Inverter Driver Line-up



## Siam Compressor Industry Co., Ltd.

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