



# 6SP Series

# Refrigeration Package

The World Depends on Sensors and Controls

### **Product Overview**

The Sensata Technologies 6SP series Refrigeration Package is a compact motor starter & motor protector package. The 6SP is suitable for compressors used in refrigerators freezers, water coolers, dehumidifires, vending machines and similar refrigeration applications.

The 6SP serves as combination control which:

- 1. Uses industry leading 4(5)TM motor protector
- 2. Performs ceramic PTC (positive temperature coefficient) solid-state starter function
- 3. Available for RSIS, RSCR, CSIR and CSCR applications
- 4. Available with 1/4" (QC#250), 3/16" (QC#187) and screw terminations
- 5. I.B.P.S. function in the starter function (6SP1/3/5/7 series)
- 6. RoHS compliance

## **Convenience**

- Fits most existing compressor terminal fences
- Elimination of 4(5)TM reapplication in most cases
- Plugs directly & easily onto the compressor terminal pins
- Provides ground, "N" and "L" terminals
- Provides significant installed cost savings opportunities
- Provides low dissipates under normal operating conditions by using stainless steel springs

## **Agency Certified**

ENEC : File 2014531.01

CQC : File CQC02002001335

UL / c-UL : -----

- Compressor Starting Method RSCR, RSIR, CSCR, CSIR
   Housing Material
- Housing Material PPS, Vyloglass, PBT or Phenol
- Combination of Terminals QC#187, #250, Screw etc.

R25 (ohms)	Dia. (mm)	Thick. (mm)	Vamx(V) Imax(A)	Application Voltage(V)
33±20%	16	2.5	355 / 6	240
22±20%	16	2.5	300 / 7	240
15±20%	20	2.5	400 / 4	240
12+4/-3 Ω	20	3.1	350 / 8	240
15±20%	16	2.5	350 / 8	240

#### **6SP Coding System**

6SP <u>X</u> <u>YYY</u>

**6SP**: Device identification

X : Physical configurations.

	Physical	Physical Features			
"X"	Drawing	Ground Terminal	Relay Terminal	IBPS	
1/5	See P.2	×	×	0	
3/7	See P.2	×	0	0	
9	See P.3	0	×	×	
0	See P.4	0	×	×	

## YYY:

The order of generating (from 001 to 999)
The followings are contained in this Y Y Y.

- 4(5)TM Type
- PTC Type

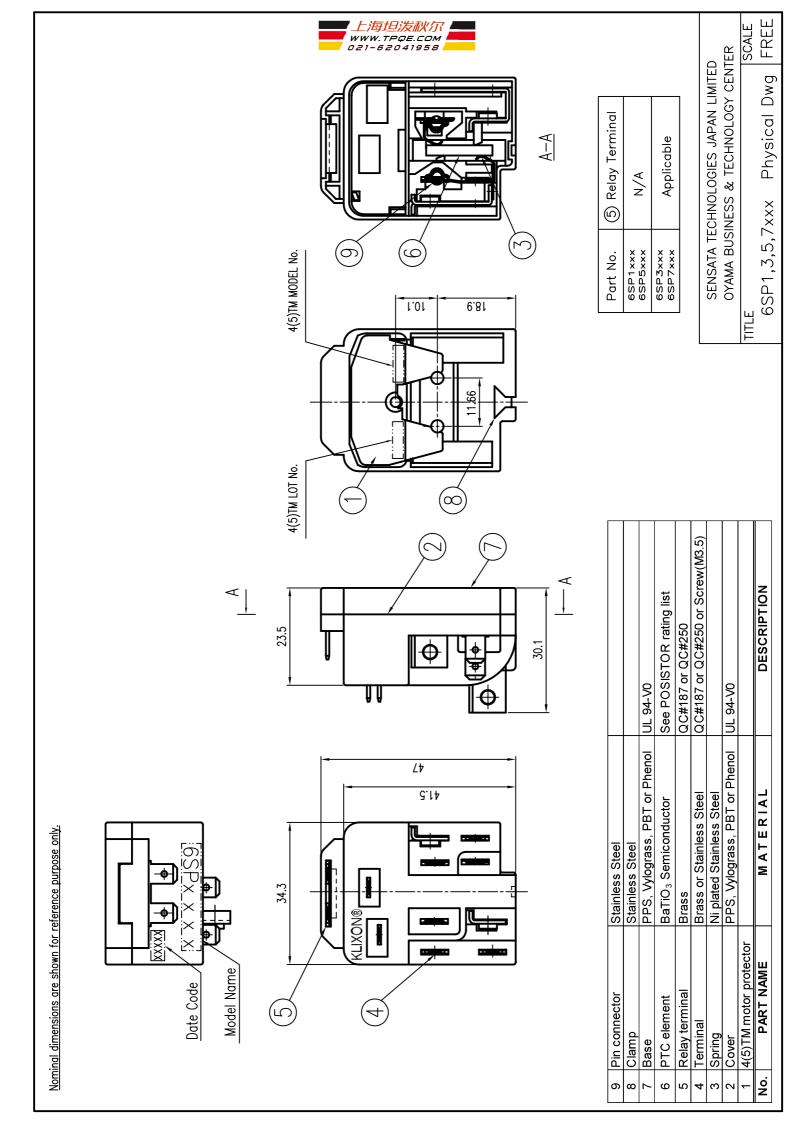
#### **Cautions**

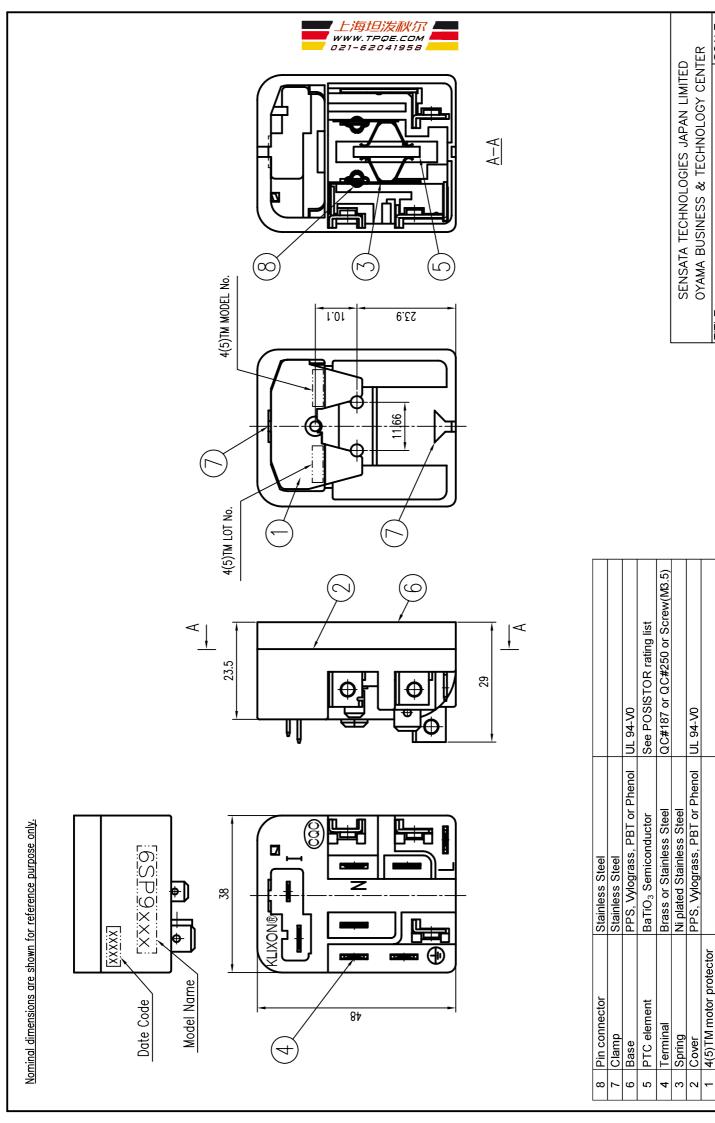
Keep 6SP away from the following atmosphere to avid deterioration of the characteristics of this product or failures in the worst case.

- Corrosive or deoxidizing gases atmosphere (Ex. Cl<sub>2</sub>,H<sub>2</sub>S, NH<sub>3</sub>, SOx, NOx, etc.)
- Volatile or flammable gas atmosphere
- Dusty place
- Under abnormal atmosphere pressure
- To be exposed to water or to be condensed dew by excessive humidity
- To be expose salt water, oil, chemicals and organic solvent
- Under the excessive vibration
- Other atmosphere same as above
- Avoid to use PVC(Polyvinyl Chloride) as an insulation material around the terminals connecting.

6SP is designed to be used in conjunction with an electrical cover.







FREE

6SP9xxx Physical Dwg

DESCRIPTION

RIAL

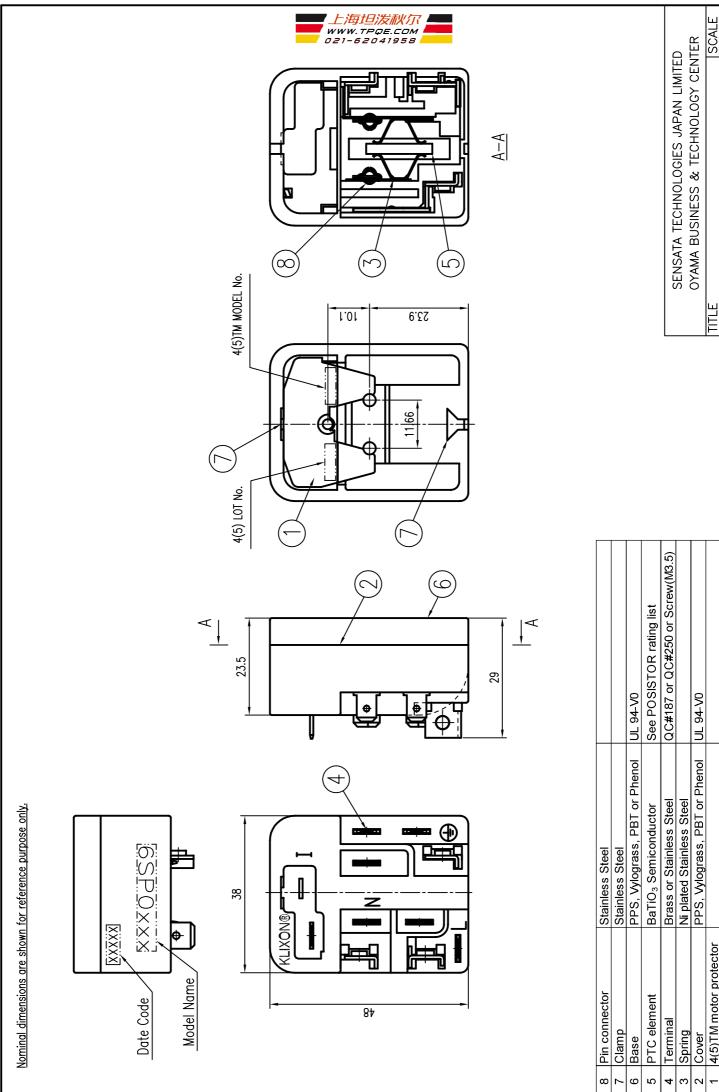
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PART NAME

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SCALE



FREE SCALE 6SPOxxx Physical Dwg

DESCRIPTION

MATERIAL

PART NAME

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