

JRS4-d Series Thermal Overload Relay

Application

JRS4-d series thermal overload relay is mainly applicable to a power system of AC 50Hz or 60Hz, rated working voltage up to 660V and current from 0.1A to 140A, and used to protect three-phase asynchronous motor from overload and phase-failure.

General

Certificates: CE, UL, CCC

Utilization Category: AC-3

Standards: IEC60947-4, GB14048.4, UL508 and EN60947-4

Features

- Bimetallic
- 1 NO & 1 NC auxiliary contactors
- Manual/ automatic
- Trip indicator
- Stop button
- Test function
- Tamper resistant cover
- Mounts directly on contact

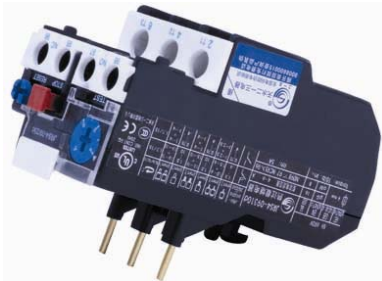
Operating Conditions

Rated Insulation Voltage U_i : 690V

Maximum Altitude: 2000m

Pollution Class: III

Permitted Ambient Temperature Range: -5°C to $+40^{\circ}\text{C}$ at relative humidity or 50% or less. Higher relative humidity is permissible at lower temperature. For example, RH could be 90% at $+20^{\circ}\text{C}$. Special measures should be taken to occurrence of condensation.



Technical Data

Model Number	Current Setting Range RC(A)	Controlled Power(AC-3) (kW)					Type of Matched Contactor	Fuse for Short Protection (A)	
		220V	380V	415V	440V	660V		aM	gG
JRS4-09301d	0.1~0.16						GSC1-09~25	0.25	2
JRS4-09302d	0.16~0.25						GSC1-09~25	0.5	2
JRS4-09303d	0.25~0.40						GSC1-09~25	1	2
JRS4-09304d	0.40~0.63					0.37	GSC1-09~25	1	2
JRS4-09305d	0.63~1					0.55	GSC1-09~25	2	4
JRS4-09306d	1~1.6		0.37		0.55	0.75 1.1	GSC1-09~25	2	4
JRS4-09307d	1.6~2.5	0.37	0.55 0.75	1.1	0.75 1.1	1.5	GSC1-09~25	4	6
JRS4-09308d	2.5~4	0.55 0.75	1.1 1.5	1.5	1.5	2.2 3	GSC1-09~25	6	10
JRS4-09310d	4~6	1.1	2.2	2.2	2.2	4	GSC1-09~25	8	16
JRS4-09312d	5.5~8	1.5	3	3 3.7	3 3.7	5.5	GSC1-09~25	12	20
JRS4-09314d	7~10	2.2	4	4	4	7.5	GSC1-09~25	12	20
JRS4-12316d	9~13	3	5.5	5.5	5.5	10	GSC1-09~25	16	25
JRS4-18321d	12~18	4	7.5	9	9	15	GSC1-09~25	20	35
JRS4-25322d	17~25	5.5	11	11	11	18.5	GSC1-09~25	25	50
JRS4-32353d	23~32	7.5	15	15	15	22	GSC1-32	40	63
JRS4-32355d	28~36	10	18.5	22	22	30	GSC1-32	40	80
JRS4-40353d	23~32	7.5	15	15	15	22	GSC1-40~80	40	63
JRS4-40355d	30~40	10	18.5	22	22	30	GSC1-40~80	40	80
JRS4-50357d	37~50	11	22	25	25	37	GSC1-40~80	63	100
JRS4-65359d	48~65	15	25	30	30	45	GSC1-40~80	63	100
JRS4-65361d	55~70	18.5	30	37	37	55	GSC1-40~80	80	125
JRS4-80363d	63~80	22	37	45	45	75	GSC1-40~80	80	125
JRS4-140365d	80~104	30	45	55	55	75	GSC1-115~170	125	200
JRS4-140367d	95~120	30	55	75	75	90	GSC1-115~170	125	224
JRS4-140369d	110~140	37	63	75	75	110	GSC1-115~170	160	250

Ordering Information



Typical Part No. → JR S 4 - 09 301 d / □ □

1. Thermal Overload Relay

2. 3 Pole

3. Design Sequence Number

4. Basic Specification: Expressed with the rated operational current of matched IEC Contactor or its maximal setting current

5. Thermal Component Number

6. Product Series Code: d

7. Installation Mode:

Z: combination type G: separate type

8. Special Product Code

TH: wet-tropic product C: marine product

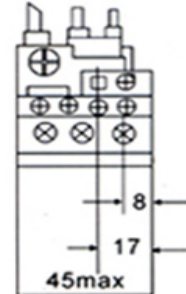
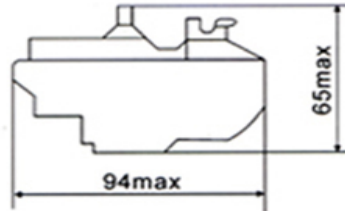
Action property

Action Property	Item No.	Current Setting Multiple		Action Time	Initial Condition	Environmental Temperature
		Any Two Phases	Another Phase			
Open-phase Protection	1	1	0.9	>2h	Cold position	20 ± 5
	2	1.15	0	<2h	Start follows the test item 1	
Overload Protection	1		1.05	>2h	Cold position	20 ± 5
	2		1.2	<2h	Start follows the test item 1	
	3		1.5	<4min	Start follows the test item 1	
	4		7.2	4S<Tp≤10S	Cold position	
Temperature Compensation	1		1	>2h	Cold position	40 ± 2
	2		1.2	<2h	Start follows the test item 1	
	3		1.05	>2h	Cold position	
	4		1.3	<2h	Start follows the test item 1	

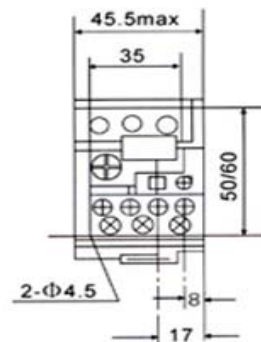
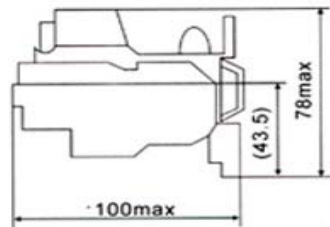
Outline and Mounting Dimensions

JRS4 -09d, 12d, 18d, 25d

△ Combined installation (Z)

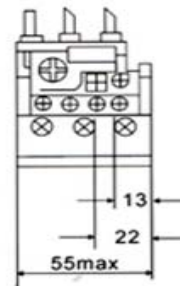
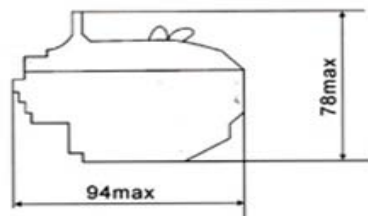


△ Separate installation (G)

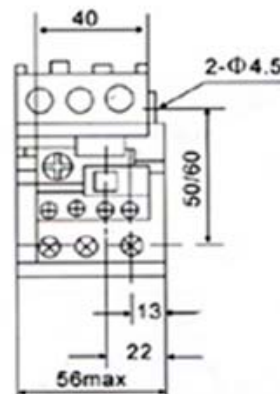
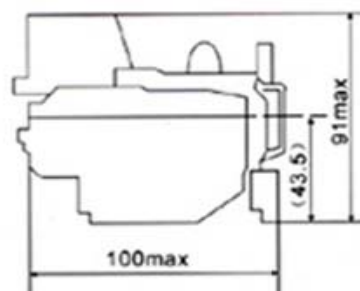


JRS4 - 32d

△ Combined installation (Z)

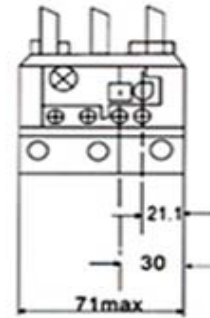
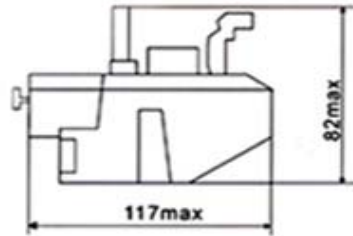


△ Separate installation (G)

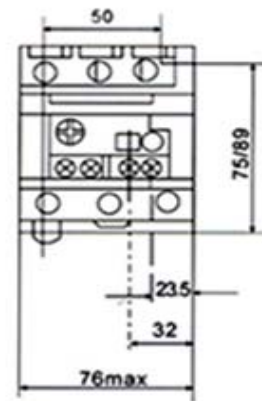
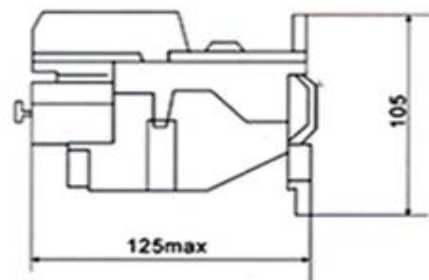


JRS4-40d、50d、65d、80d

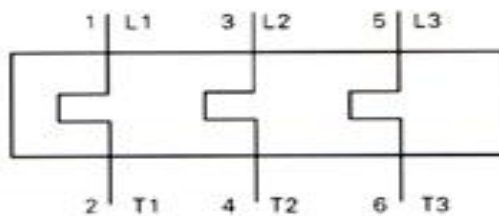
△ Combined installation (Z)



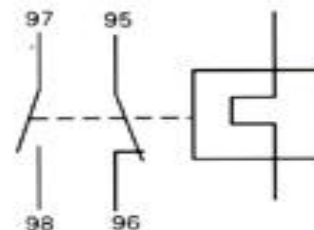
△ Separate installation (G)



Main and auxiliary circuit wiring diagram



main circuit



auxiliary circuit