

JRS8(T) Series Thermal Relay

Application

JRS8(T) series thermal relays are suitable for elec. power system with rated insulating voltage upto 660V, rated current upto 500A for overload and phase failure protection.

It can be matched with B series AC contactors to form AC magnetic starters.

Structure

JRS8(T)-16, 25 series thermal relays are friction type tripping mechanism with protection of phase failure; JRS8(T)-45, 85 series are spring type with protection of phase failure, JRS8(T)-105, 170 series backpack type, and JRS8(T)-250, 370 series are jumping type with C.T.

Main technical data

1. Operating characteristic & Temperature

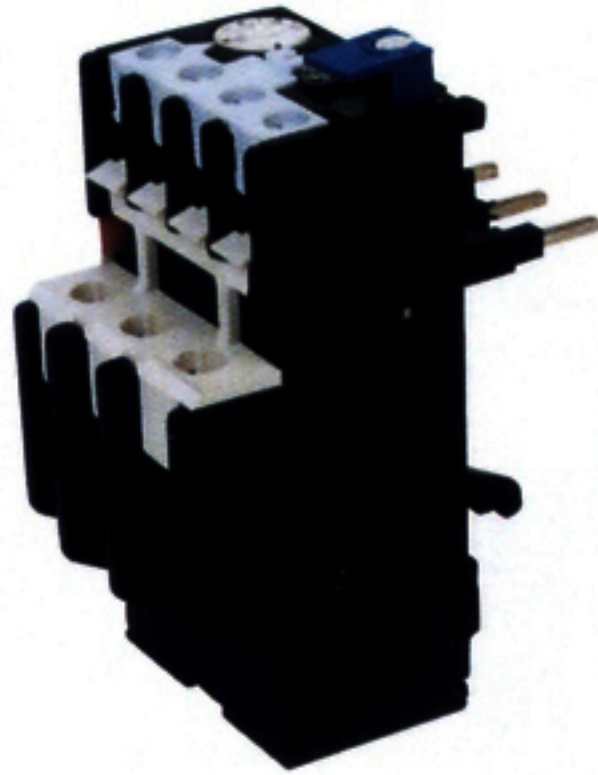
	No	Rated current multiple	Tripping time	Initial state	Ambient temp. (°C)
Balanced load	1	1.05	2h Not trip	Cold state	+20 ± 5
	2	1.2	< 2h	Hot state	
	3	1.5	< 45A < 2min > 45A < 4min	(after test 1)	
	4	7.2	< 45A 2s < TP < 10s > 45A 4S < TP < 10s	Cold state	
With phase failure protection, unbalanced load	5	Any tow phase 1.0 3rd phase 0.9	2h Not trip	Cold state	+40 ± 2
	6	Any tow phase 1.15 3rd phase 0	< 2h	Hot state (after test 5)	
Temp. compensation	9	1.0	2h Not trip	Cold state	-5 ± 2
	10	1.20	< 2h	Hot state (after test 9)	
	11	1.05	2h Not trip	Cold state	
	12	1.30	< 2h	Hot state (after test 11)	

Type	JRS8-16	JRS8-25	JRS8-45	JRS8-85	JRS8-105	JRS8-170	JRS8-250	JRS8-370
Rated current (A)	16	25	45	85	105	170	250	370
Setting current range (A)	0.11-17.6	0.1-32	0.28-45	6.0-100	27-115	90-200	100-400	100-500
Operating frequency(time/h)	15							
Elec. life (1000 times)	1							
Recover	Manual	Manual & auto.	Manual & auto.	Manual & auto.	Manual & auto.	Manual & auto.	Manual & auto.	Manual & auto.
Aux. contact	1 NO 1 NC: 220V:3 380V:2	1 NO 1 NC: 220V:3 380V:2	1 NO 1 NC: 220V:3, 1.7 380V:2, 1.3 (JRS8(T)-85 1NC or 2NC or 1NO)	1 NO 1 NC/2 NC: 220V:3, 2.5 380V:2, 1.3	1 NO 1 NC: 220V:3, 1.7 380V:2, 1.3			



2. Rated current & setting current range of thermal parts

Type	Thermal part (A)	Setting current range(A)	A.C contact	"2" Fuse spec. (maxA)	Type	Thermal part (A)	Setting current range(A)	A.C contact	"2" Fuse spec. (maxA)
	0.16	0.11-0.16		0.5		0.83	0.55-0.83		2
	0.21	0.14-0.21		0.6		1.0	0.7-1.0		4
	0.29	0.19-0.29		0.8		1.3	0.86-1.3		4
	0.4	0.27-0.4		2		1.6	1.1-1.6		6
	0.52	0.35-0.52		2		2.1	1.4-2.1		6
	0.63	0.42-0.63		2		2.5	1.8-2.5		10
	0.83	0.55-0.83		4		3.3	2.2-3.3	CDC1	10
	1.0	0.7-1.0	CDC1	4	CDR2	4.0	2.8-4.0	-30	10
	1.3	0.9-1.3	-9	4	-45	5.2	3.5-5.2	CDC1	16
	1.5	1.1-1.5	CDC1	6		6.3	4.5-6.3	-37	16
CDR2	1.8	1.3-1.8	-12	6		8.3	5.5-8.3	CDC1	25
-16	2.1	1.5-2.1	CDC1	6		10	7.0-10	-45	25
	2.4	1.7-2.4	-16	10		13	8.6-13		36
	3.0	2.1-3.0		10		16	11-16		36
	4.0	2.7-4.0		16		21	14-21		63
	4.5	3.4-4.5		16		27	18-27		80
	6.0	4.0-6.0		20		35	25-35		100
	7.5	5.2-7.5		25		45	30-45		125
	9.0	6.3-9.0		35		10	6.0-10		25
	11	7.5-11		35		14	8.0-14		35
	13	9.0-13		50		20	12-20	CDC1	45
	17.6	12-17.6		63	CDR2	29	17-29	-65	70
	0.16	0.1-0.16		0.5	-85	40	25-40	CDC1	90
	0.25	0.16-0.25		0.63		55	35-55	-85	125
	0.4	0.25-0.4	CDC1	1.25		70	45-70		175
	0.63	0.4-0.63	-9	2		100	60-100		225
	1.0	0.63-1.0	CDC1	4		42	27-42		100
	1.4	1.0-1.4	-12	4		52	36-52	CDC1	125
	1.8	1.3-1.8	CDC1	6	CDR2	63	45-63	37,45,	150
CDR2	2.4	1.7-2.4	-16	6	105	82	57-82	65,85,	200
25	3.1	2.2-3.1	CDC1	10		105	70-105	105,170	250
	4.0	2.8-4.0	-25	10		115	80-115		300
	5.0	3.5-5.0	CDC1	16	CDR2	130	90-130	CDC1	250
	6.5	4.5-6.5	-30	20	170	160	110-160	65,85,	315
	8.5	6.0-8.5		25		200	140-200	105,170	355
	11	7.5-11		35	CDR2	160	100-160		400
	14	10-14		35	250	250	160-250	CDC1	400
	19	13-19		50		400	250-400	250	630
	25	18-25		63		160	100-160		400
	32	24-32		80	CDR2	250	160-250		400
CDR2	0.4	0.28-0.4		2	370	400	250-400	CDC1	630
45	0.52	0.35-0.52	CDC1	2		500	310-500	370,460	630
	0.63	0.45-0.63	-25	2					



Outline & mounting dimensions

