

Алматы (7273) 495-231
 Ангарск (3955) 60-70-56
 Архангельск (8182) 63-90-72
 Астрахань (8512) 99-46-04
 Барнаул (3852) 73-04-60
 Белгород (4722) 40-23-64
 Благовещенск (4162) 22-76-07
 Брянск (4832) 59-03-52
 Владивосток (423) 249-28-31
 Владикавказ (8672) 28-90-48
 Владимир (4922) 49-43-18
 Волгоград (844) 278-03-48
 Вологда (8172) 26-41-59
 Воронеж (473) 204-51-73
 Екатеринбург (343) 384-55-89

Иваново (4932) 77-34-06
 Ижевск (3412) 26-03-58
 Иркутск (395) 279-98-46
 Казань (843) 206-01-48
 Калининград (4012) 72-03-81
 Калуга (4842) 92-23-67
 Кемерово (3842) 65-04-62
 Киров (8332) 68-02-04
 Коломна (4966) 23-41-49
 Кострома (4942) 77-07-48
 Краснодар (861) 203-40-90
 Красноярск (391) 204-63-61
 Курск (4712) 77-13-04
 Курган (3522) 50-90-47
 Липецк (4742) 52-20-81

Магнитогорск (3519) 55-03-13
 Москва (495) 268-04-70
 Мурманск (8152) 59-64-93
 Набережные Челны (8552) 20-53-41
 Нижний Новгород (831) 429-08-12
 Новокузнецк (3843) 20-46-81
 Ноябрьск (3496) 41-32-12
 Новосибирск (383) 227-86-73
 Омск (3812) 21-46-40
 Орел (4862) 44-53-42
 Оренбург (3532) 37-68-04
 Пенза (8412) 22-31-16
 Петрозаводск (8142) 55-98-37
 Псков (8112) 59-10-37
 Пермь (342) 205-81-47

Ростов-на-Дону (863) 308-18-15
 Рязань (4912) 46-61-64
 Самара (846) 206-03-16
 Санкт-Петербург (812) 309-46-40
 Саратов (845) 249-38-78
 Севастополь (8692) 22-31-93
 Саранск (8342) 22-96-24
 Симферополь (3652) 67-13-56
 Смоленск (4812) 29-41-54
 Сочи (862) 225-72-31
 Ставрополь (8652) 20-65-13
 Сургут (3462) 77-98-35
 Сыктывкар (8212) 25-95-17
 Тамбов (4752) 50-40-97
 Тверь (4822) 63-31-35

Тольятти (8482) 63-91-07
 Томск (3822) 98-41-53
 Тула (4872) 33-79-87
 Тюмень (3452) 66-21-18
 Ульяновск (8422) 24-23-59
 Улан-Удэ (3012) 59-97-51
 Уфа (347) 229-48-12
 Хабаровск (4212) 92-98-04
 Томск (3822) 98-41-53
 Тула (4872) 33-79-87
 Тюмень (3452) 66-21-18
 Ульяновск (8422) 24-23-59
 Улан-Удэ (3012) 59-97-51
 Уфа (347) 229-48-12
 Хабаровск (4212) 92-98-04
 Чебоксары (8352) 28-53-07
 Челябинск (351) 202-03-61
 Ставрополь (8652) 20-65-13
 Череповец (8202) 49-02-64
 Чита (3022) 38-34-83
 Якутск (4112) 23-90-97
 Ярославль (4852) 69-52-93

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3SR8-F, from 30 to 630 A

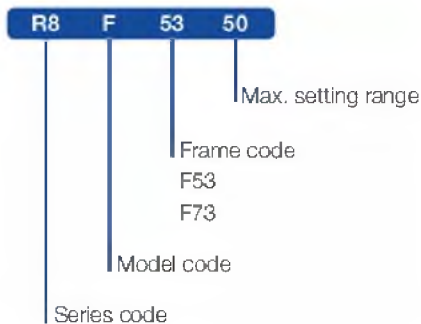
Independent power supply with build-in power source, directly draws power from the incoming end to avoid the risk of protection function failure caused by external p failure.

- Overload protection
- Short circuit protection
- Isolation
- Controlling
- Used in residential building, non-residential building, industry, energy and infrastructure

Applications And Functions For Thermal Relay 3SR8-F

- Protecting the loads from overload and phase failure
- Implementing short-circuit protection by means of fuse or circuit breaker
- Used for the protection of motors

Instruction of type code




Technical specifications for thermal relay 3SR8-F

Type	3SR8-F53	3SR8-F73
Standard	IEC 60947-4-1	
Tripping class	10 A, 20 A	
Rated operational voltage Ue (V)	1000	
Rated working current Ie (A)	220	630
Setting range (A)	30-220	200-630
Reset	Manual on front of relay	
Rated insulation voltage Ui (V)	1000	
Rated impulse withstand voltage Uimp (kV)	6	
Tightening torque (N·m)	0.8	
Degree of protection	IP20	

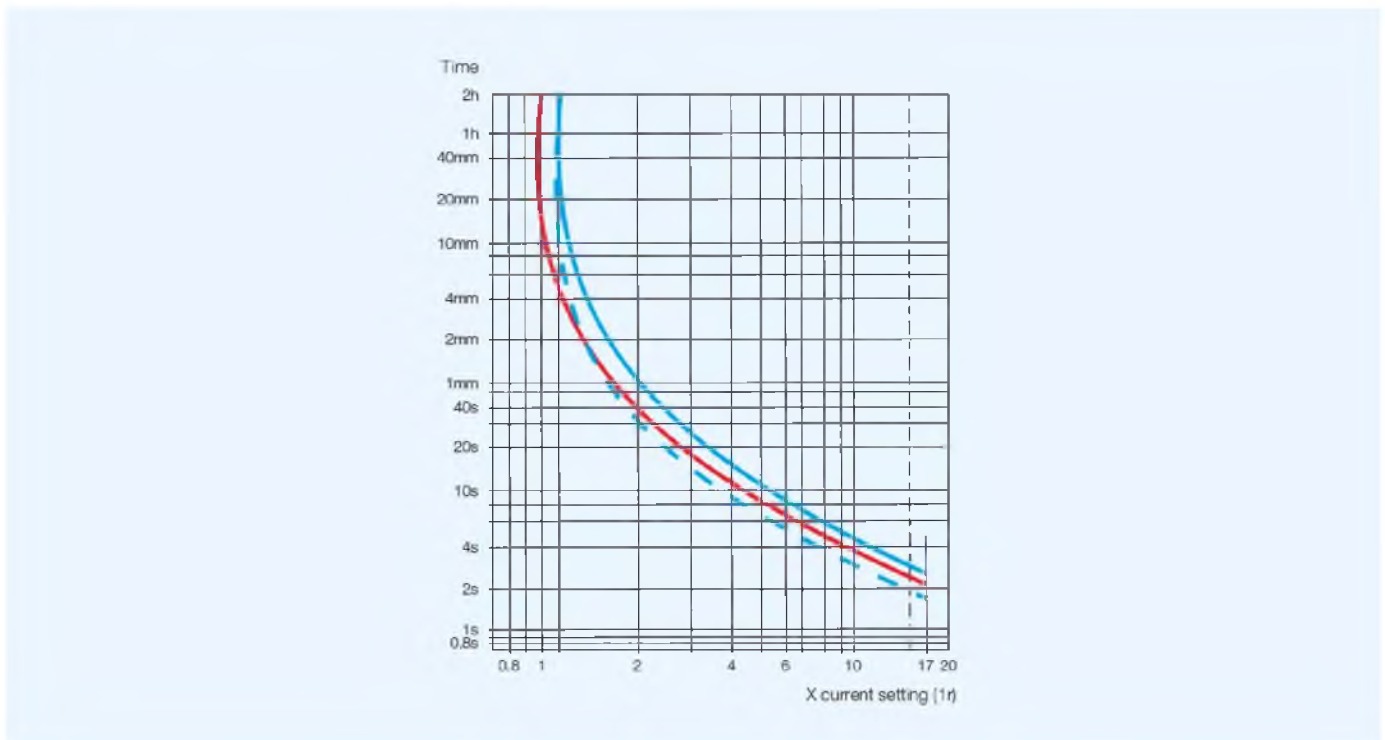
Ambient air temperature (°C)	-5 to +40, max. 95 % humidity
Storage temperature (°C)	-40 ~ +75
Maximum operating altitude (meters)	2000
Flame resistance	V1

Selection and ordering data

3SR8-F thermal relay matched with contactor 3SC8-F

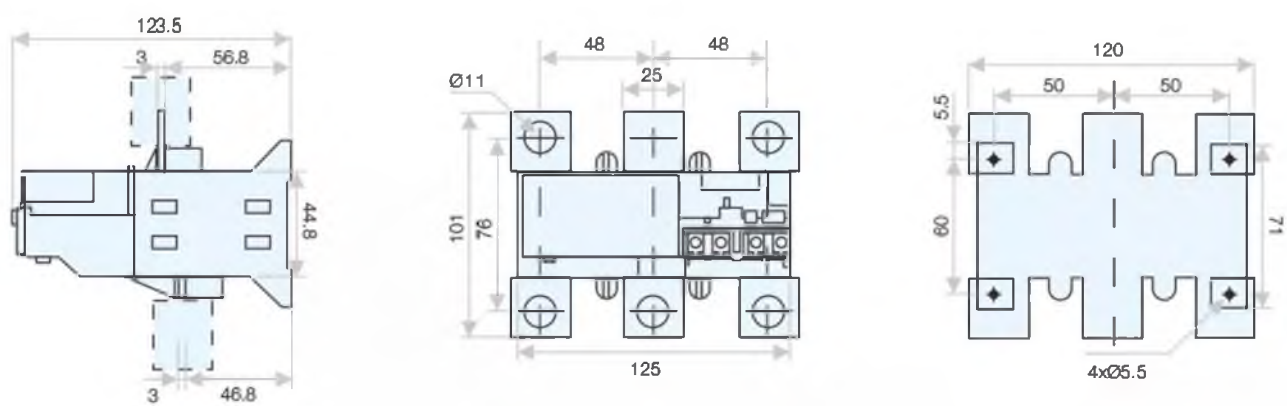
	Current setting range (A)	Fuses to be used with selected relay maximum rating		Matched contactor	Type code	Order code
		aM Type (A)	gG Type (A)			
	30-50	50	80	3SC8-F115...F185	R8 F53/50	15710
	48-80	80	125	3SC8-F115...F185	R8 F53/80	15711
	60-100	100	200	3SC8-F115...F185	R8 F53/100	15712
	90-150	160	250	3SC8-F115...F185	R8 F53/150	15713
	132-220	250	315	3SC8-F225...F265	R8 F53/220	15714
	200-330	400	500	3SC8-F225...F500	R8 F73/330	15715
	300-500	500	800	3SC8-F225...F500	R8 F73/500	15716
	380-630	630	800	3SC8-F400...F630	R8 F73/630	15717

Tripping curve for thermal relay 3SR8-F

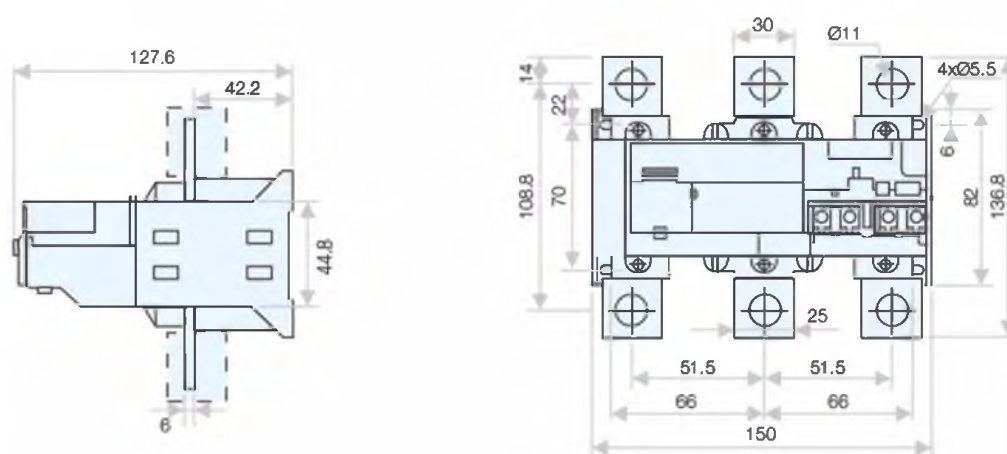


Outline and installation dimensions (Series 3SR8-F)

3SR8-F53



3SR8-F73



3SR8, from 0.1 to 93 A

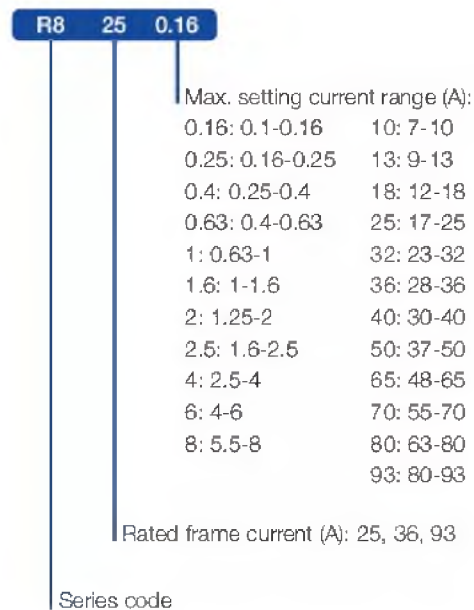
Independent power supply with build-in power source, directly draws power from the incoming end to avoid the risk of protection function failure caused by supply failure.

- Overload protection
- Short circuit protection
- Isolation
- Controlling
- Used in residential building, non-residential building, industry, energy and infrastructure

Applications And Functions For Thermal Relay 3SR8

- Protecting the loads from overload and phase failure
- Implementing short-circuit protection by means of a fuse or circuit breaker
- Used for the protection of motors

Instruction of type code






Technical specifications for assembled thermal relay of type 3SR8

Type	3SR8-D13	3SR8-D23	3SR8-D33
Standard	IEC 60947-4-1		
Tripping class	10 A		
Rated working current Ie (A)	25	36	93
Setting range (A)	0.1-25	23-36	23-93


Rated insulation voltage U_i (V)	690
Rated impulse withstand voltage U_{imp} (kV)	6
Signalling Trip indicator	Trip indicator
Tightening torque (N·m)	0.8
Degree of protection	IP20
Ambient air temperature (°C)	-5 to +40, max. 95 % humidity
Storage temperature (°C)	-40 ~ +75
Maximum operating altitude (meters)	2000
Flame resistance	V1
Mounting	Directly under the contactor

Selection and ordering data

Series 3SR8

	Rated frame current (A)	Current setting range (A)	Matched fuse type		Matched AC contactor	Type code	Order code
			aM (A)	gG (A)			
	25	0.1~0.16	0.25	2	3SC8-09	R8 25/0.16	22875
		0.16~0.25	0.25	2	3SC8-09	R8 25/0.25	22876
		0.25~0.4	1	2	3SC8-09	R8 25/0.40	22877
		0.4~0.63	1	2	3SC8-09	R8 25/0.63	22878
		0.63~1	2	4	3SC8-09	R8 25/1	22879
		1~1.6	2	4	3SC8-09	R8 25/1.6	22880
		1.25~2	4	6	3SC8-09	R8 25/2	22881
		1.6~2.5	4	6	3SC8-09	R8 25/2.5	22882
		2.5~4	6	10	3SC8-09	R8 25/4	22883
		4~6	8	16	3SC8-09	R8 25/6	22884
		5.5~8	12	20	3SC8-09	R8 25/8	22885
		7~10	12	20	3SC8-12	R8 25/10	22886
		9~13	16	25	3SC8-12	R8 25/13	22887
		12~18	20	35	3SC8-18	R8 25/18	22888
17~25	25	50	3SC8-25	R8 25/25	22889		
	36	23~32	40	63	3SC8-32	R8 36/32	22890
		28~36	40	80	3SC8-32	R8 36/36	22891
	93	23~32	40	63	3SC8-40	R8 93/32	22892
		30~40	40	100	3SC8-40	R8 93/40	22893
		37~50	63	100	3SC8-50	R8 93/50	22894
		48~65	63	100	3SC8-65	R8 93/65	22895
		55~70	80	125	3SC8-80	R8 93/70	22896
		63~80	80	125	3SC8-80	R8 93/80	22897
		80~93	100	160	3SC8-95	R8 93/93	22898

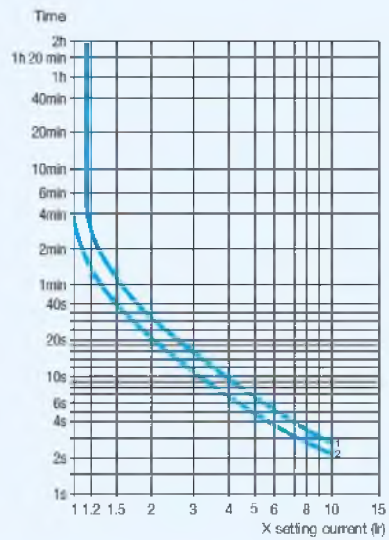
Mounting block

	Matched relay	Type code	Order code
	R8 25	C8 A7D1064	15971
	R8 36	C8 A7D2064	15972
	R8 93	C8 A7D3064	15973

Action characteristics for thermal relay 3SR8

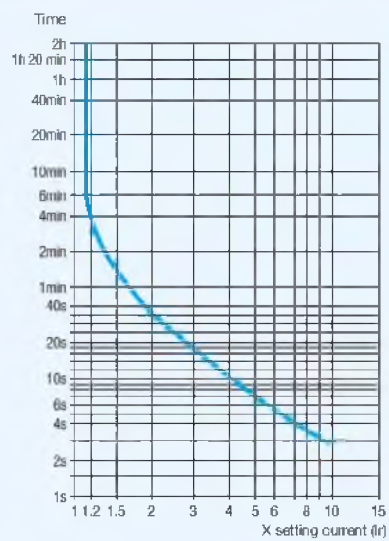
Average operating time related to multiples of the current setting (Class 10 A)

Balanced 3-phase operation, from cold state

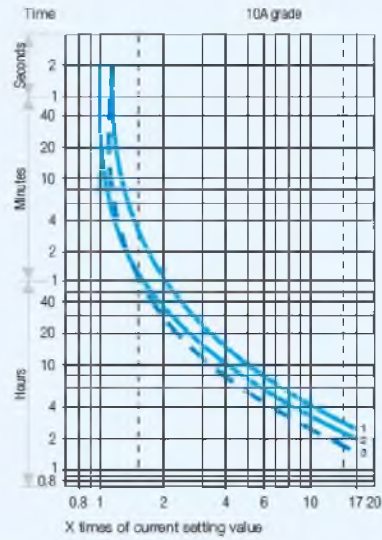


1. Setting: at lower end of scale
2. Setting: at upper end of scale

Balanced operation with 2 phases only, from cold state

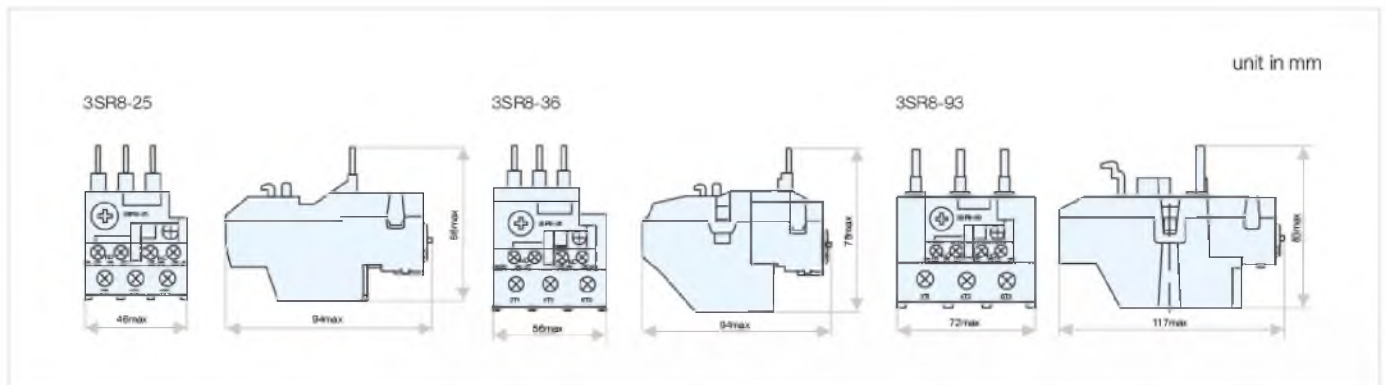


Tripping curve for thermal relay 3SR8

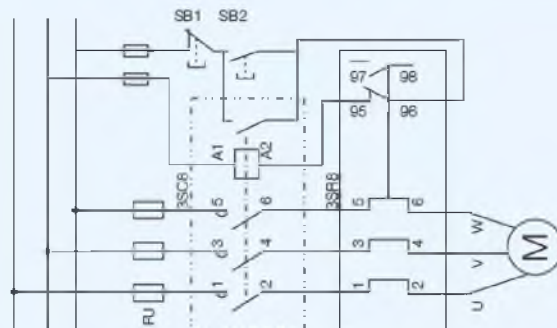


1. Equilibrium running, 3 phase, start from cold state
2. Equilibrium running, 2 phase, start from cold state
3. Equilibrium running, 3 phase, after long period of setting current (hot state)

Outline and installation dimensions



Operating principle diagram of overload relay



- FU - fuse
- 3SC8 - AC contactor
- 3SR8 - thermal relay
- SB1 - stop button
- SB2 - start button

3SR8-K, from 0.11 to 14 A

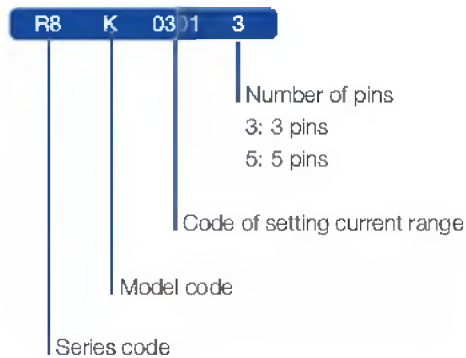
Independent power supply with build-in power source, directly draws power from the incoming end to avoid the risk of protection function failure caused by supply failure.

- Overload protection
- Short circuit protection
- Isolation
- Controlling
- Used in residential building, non-residential building, industry, energy and infrastructure

Applications And Functions For Thermal Relay

- Protecting the loads from overload and phase failure
- Implementing short-circuit protection by means of a fuse or circuit breaker
- Used for the protection of motors

Instruction of type code




Technical specifications for assembled thermal relay of type 3SC8-K

- Type: 3SR8-K
- Standard: IEC 60947-4-1
- Tripping class: 10 A
- Number of connecting pin: 4
- Rated operational voltage U_e (V): up to 690
- Rated insulation voltage U_i (V): 690
- Rated impulse withstand voltage U_{imp} (kV): 6
- Rated current range I_n (A):
0.11-0.16, 0.16-0.23, 0.23-0.36, 0.36-0.54,
0.54-0.8, 0.8-1.2, 1.8-2.6, 2.6-3.7,
3.7-5.5, 5.-8, 8-11.5, 10-14
- Signalling: Trip indicator
- Tightening torque (N·m): 0.8
- Degree of protection: IP20

- Ambient air temperature (°C): -5 to +40, max. 95 % humidity
- Storage temperature (°C): -40 ~ +75
- Maximum operating altitude (meters): 2000
- Flame resistance: V1
- Mounting: directly under the contactor

Selection and ordering data

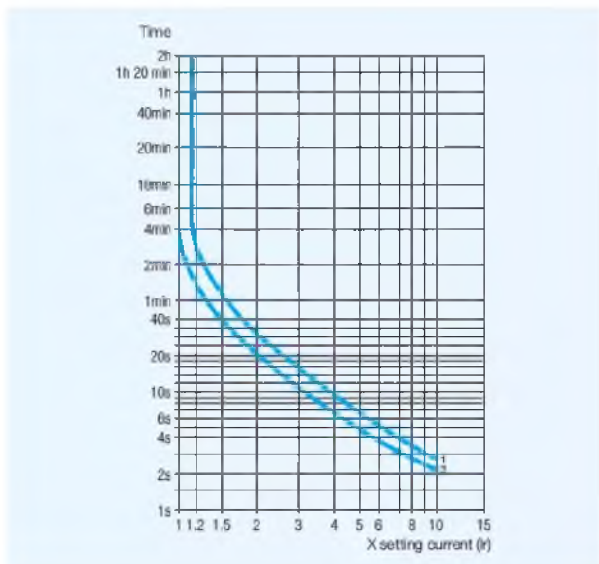
3SR8-K thermal relay matched with contactor 3SC8-K

3SR8-K 5 Pins	Current setting range (A)	Fuses to be used with selected relay		Type code	Order code
		aM Type (A)	gG Type (A)		
	0.11-0.16	0.25	0.5	R8 K0301/5	15594
	0.16-0.23	0.25	0.5	R8 K0302/5	15595
	0.23-0.36	0.5	1	R8 K0303/5	15596
	0.36-0.54	1	1.6	R8 K0304/5	15597
	0.54-0.8	1	2	R8 K0305/5	15598
	0.8-1.2	2	6	R8 K0306/5	15599
	1.8-2.6	4	8	R8 K0308/5	15600
	2.6-3.7	4	10	R8 K0310/5	15601
	3.7-5.5	6	16	R8 K0312/5	15602
	5-8	8	20	R8 K0314/5	15603
	8-11.5	10	25	R8 K0316/5	15604
	10-14	16	32	R8 K0321/5	15605

Tripping curve of thermal relay 3SR8-K

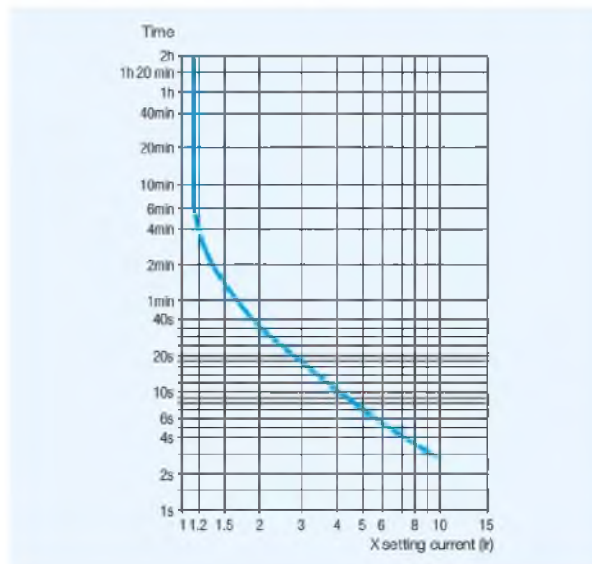
Average operating time related to multiples of the current setting (Class 10 A)

Balanced 3-phase operation, from cold state



1. Setting: at lower end of scale
2. Setting: at upper end of scale

Balanced operation with 2 phases only, from cold state



Outline and installation dimensions (3SC8-K, 3SR8-K)

PTR61F, from 30 to 630 A

- Protecting the loads from overload and phase failure
- Implementing short-circuit protection by means of a fuse or circuit breaker.
- Used for the protection of motors

Applications And Functions For Thermal Relay

- Protecting the loads from overload and phase failure
- Implementing short-circuit protection by means of a fuse or circuit breaker.
- Used for the protection of motors.

Technical specifications

Type	PTR61F-53	PTR61F-73
Standard	IEC 60947-4-1	
Tripping class	10 A, 20 A	
Rated operational voltage U_e (V)	1000	
Rated working current I_e (A)	220	630
Setting range (A)	30 ... 50, 48 ... 80, 60 ... 100, 90 ... 150, 132 ... 220	200 ... 330, 300 ... 500, 380 ... 630
Reset	Manual on front of relay	
Rated insulation voltage U_i (V)	1000	
Rated impulse withstand voltage U_{imp} (kV)	6	
Tightening torque (N·m)	0.8	
Degree of protection	IP20	
Ambient air temperature (°C)	-5 to +40, max. 95 % humidity	
Storage temperature (°C)	-40 ~ +75	
Maximum operating altitude (meters)	2000	
Flame resistance	V1	

Next: PTR61, from 0.1 to 93 A

PTR61, from 0.1 to 93 A

- Protecting the loads from overload and phase failure
- Implementing short-circuit protection by means of a fuse or circuit breaker.
- Used for the protection of motors

Applications And Functions For Thermal Relay

- Protecting the loads from overload and phase failure
- Implementing short-circuit protection by means of a fuse or circuit breaker.
- Used for the protection of motors.

Technical specifications

Type	PTR61-25	PTR61-36	PTR61-93
Standard	IEC 60947-4-1		
Tripping class	10 A		
Rated working current I _e (A)	25	36	93
Setting range (A)	0.1-0.16, 0.16-0.25, 0.25-0.4, 0.4-0.63, 0.63-1, 1-1.6, 1.25-2, 1.6-2.5, 2.5-4, 4-6, 5.5-8, 7-10, 9-13, 12-18, 17-25	23-32, 28-36,	23-32, 30-40, 37-50, 48-65, 55-70, 63-80, 80-93
Rated insulation voltage U _i (V)	690		
Rated impulse withstand voltage U _{imp} (kV)	6		
Signalling Trip indicator	Trip indicator		
Tightening torque (N·m)	0.8		
Degree of protection	IP20		
Ambient air temperature (°C)	-5 to +40, max. 95 % humidity		
Storage temperature (°C)	-40 ~ +75		
Maximum operating altitude (meters)	2000		
Flame resistance	V1		
Mounting	Directly under the contactor		

PTR61K, from 0.11 to 14 A

Independent power supply with build-in power source, directly draws power from the incoming end to avoid the risk of protection function failure caused by supply failure.

- Overload protection
- Short circuit protection
- Isolation
- Controlling
- Used in residential building, non-residential building, industry, energy and infrastructure

Applications And Functions For Thermal Relay

- Protecting the loads from overload and phase failure
- Implementing short-circuit protection by means of a fuse or circuit breaker
- Used for the protection of motors

Technical specifications for assembled thermal relay of type PC61K

- Type: PTR61K
- Standard: IEC 60947-4-1
- Tripping class: 10 A
- Number of connecting pin: 4
- Rated operational voltage U_e (V): up to 690
- Rated insulation voltage U_i (V): 690
- Rated impulse withstand voltage U_{imp} (kV): 6
- Rated current range I_n (A):
0.11-0.16, 0.16-0.23,
0.23-0.36, 0.36-0.54,
0.54-0.8, 0.8-1.2,
1.8-2.6, 2.6-3.7,
3.7-5.5, 5.-8,
8-11.5, 10-14
- Signalling: Trip indicator
- Tightening torque (N·m): 0.8
- Degree of protection: IP20
- Ambient air temperature (°C): -5 to +40, max. 95 % humidity
- Storage temperature (°C): -40 ~ +75
- Maximum operating altitude (meters): 2000
- Flame resistance: V1
- Mounting: directly under the contactor

Selection and ordering data

Thermal overload relays PTR61K, 0.11 to 14 A

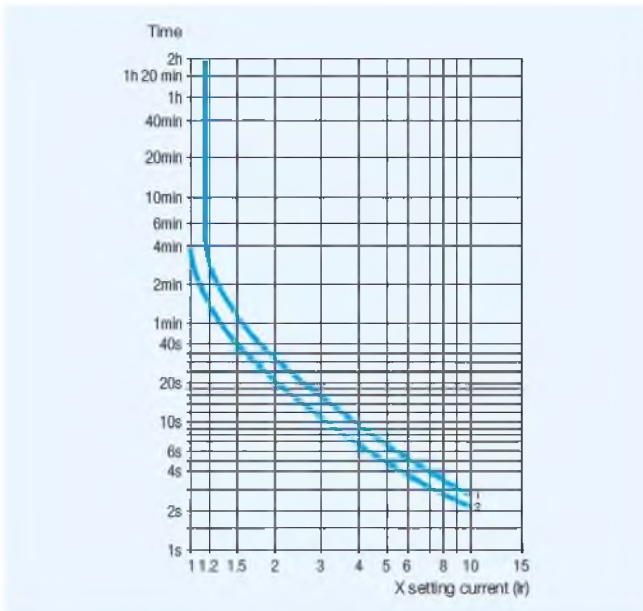
For contactors	Current setting range (A)	Fuses to be used with selected relay		Type code
		aM (A)	gG (A)	
PC81K	0.11 ... 0.16	0.25	0.5	PTR61K-5-0.16
	0.16 ... 0.23	0.25	0.5	PTR61K-5-0.23
	0.23 ... 0.36	0.5	1	PTR61K-5-0.36
	0.36 ... 0.54	1	1.6	PTR61K-5-0.54
	0.54 ... 0.8	1	2	PTR61K-5-0.8
	0.8 ... 1.2	2	6	PTR61K-5-1.2
	1.2 ... 1.8	2	8	PTR61K-5-1.8
	1.8 ... 2.6	4	8	PTR61K-5-2.6
	2.6 ... 3.7	4	10	PTR61K-5-3.7
	3.7 ... 5.5	6	16	PTR61K-5-5.5
	5.5 ... 8	8	20	PTR61K-5-8
	8 ... 11.5	10	25	PTR61K-5-11.5
	10 ... 14	16	32	PTR61K-5-14
12 ... 16	20	40	PTR61K-5-16	



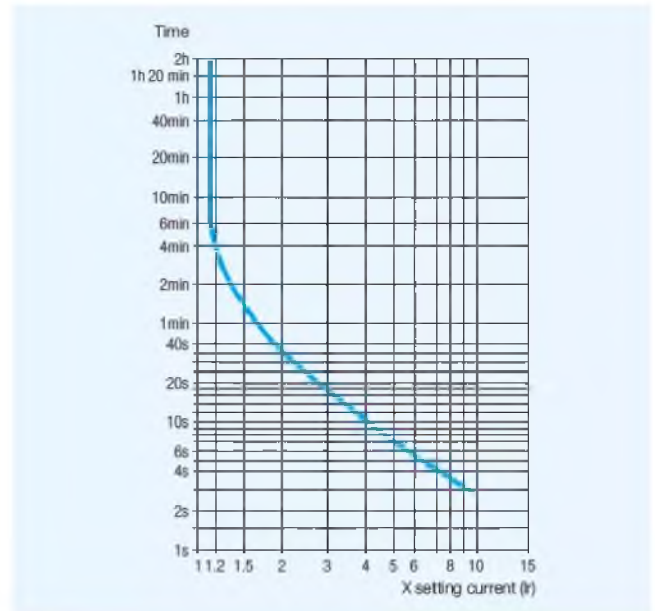
Tripping curve of thermal relay PTR61K

Average operating time related to multiples of the current setting (Class 10 A)

Balanced 3-phase operation, from cold state

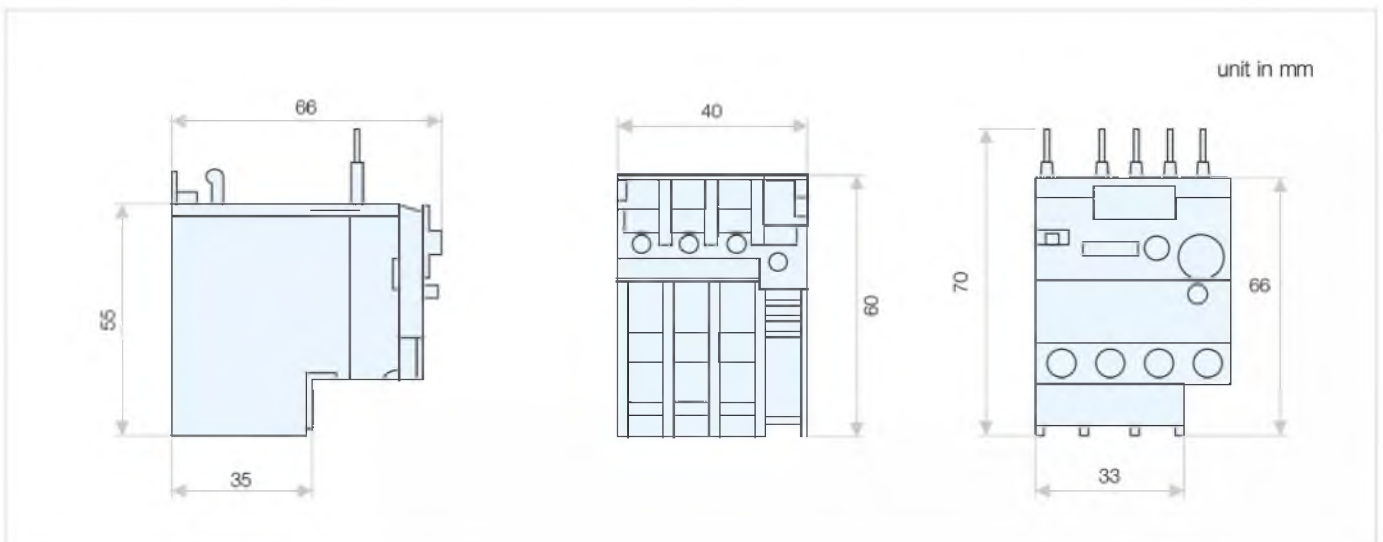


Balanced operation with 2 phases only, from cold state



1 Setting: at lower end of scale
2 Setting: at upper end of scale

Outline and installation dimensions



VTR51F, from 30 to 630 A

- Protecting the loads from overload and phase failure
- Implementing short-circuit protection by means of a fuse or circuit breaker.
- Used for the protection of motors.

Technical Specifications

Type	VTR51F-53	VTR51F-73
Standard	IEC 60947-4-1	
Tripping class	10 A, 20 A	
Rated operational voltage U_e (V)	1000	
Rated working current I_e (A)	220	630
Setting range (A)	30 ... 50, 48 ... 80, 60 ... 100, 90 ... 150, 132 ... 220	200 ... 330, 300 ... 500, 380 ... 630
Reset	Manual on front of relay	
Rated insulation voltage U_i (V)	1000	
Rated impulse withstand voltage U_{imp} (kV)	6	
Tightening torque (N·m)	0.8	
Degree of protection	IP20	
Ambient air temperature (°C)	-5 to +40, max. 95 % humidity	
Storage temperature (°C)	-40 ~ +75	
Maximum operating altitude (meters)	2000	
Flame resistance	V1	

VTR51K, from 0.11 to 14 A

- Overload protection and phase-failure protection.
- Implementing short-circuit protection by means of a fuse or circuit breaker.
- Used for the protection of motors.

Technical Specifications For Assembled Thermal Relay Of Type VC51K

- Type: VTR51K
- Standard: IEC 60947-4-1
- Tripping class: 10 A
- Number of connecting pin: 4
- Rated operational voltage U_e (V): up to 690
- Rated insulation voltage U_i (V): 690
- Rated impulse withstand voltage U_{imp} (kV): 6
- Rated current range I_n (A):
 - 0.11-0.16, 0.16-0.23,
 - 0.23-0.36, 0.36-0.54,
 - 0.54-0.8, 0.8-1.2,
 - 1.8-2.6, 2.6-3.7,
 - 3.7-5.5, 5-8,
 - 8-11.5, 10-14
- Signalling: Trip indicator
- Tightening torque (N·m): 0.8
- Degree of protection: IP20
- Ambient air temperature (°C): -5 to +40, max. 95 % humidity
- Storage temperature (°C): -40 ~ +75
- Maximum operating altitude (meters): 2000
- Flame resistance: V1
- Mounting: directly under the contactor

VTR51, from 0.1 to 93 A

- Protecting the loads from overload and phase failure
- Implementing short-circuit protection by means of a fuse or circuit breaker.
- Used for the protection of motors.

Technical Specifications

Type	VTR51-25	VTR51-36	VTR51-93
Standard	IEC 60947-4-1		
Tripping class	10 A		
Rated working current Ie (A)	25	36	93
Setting range (A)	0.1-0.16, 0.16-0.25, 0.25-0.4, 0.4-0.63, 0.63-1, 1-1.6, 1.25-2, 1.6-2.5, 2.5-4, 4-6, 5.5-8, 7-10, 9-13, 12-18, 17-25	23-32, 28-36,	23-32, 30-40, 37-50, 48-65, 55-70, 63-80, 80-93
Rated insulation voltage Ui (V)	690		
Rated impulse withstand voltage Uimp (kV)	6		
Signalling Trip indicator	Trip indicator		
Tightening torque (N·m)	0.8		
Degree of protection	IP20		
Ambient air temperature (°C)	-5 to +40, max. 95 % humidity		
Storage temperature (°C)	-40 ~ +75		
Maximum operating altitude (meters)	2000		
Flame resistance	V1		
Mounting	Directly under the contactor		

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