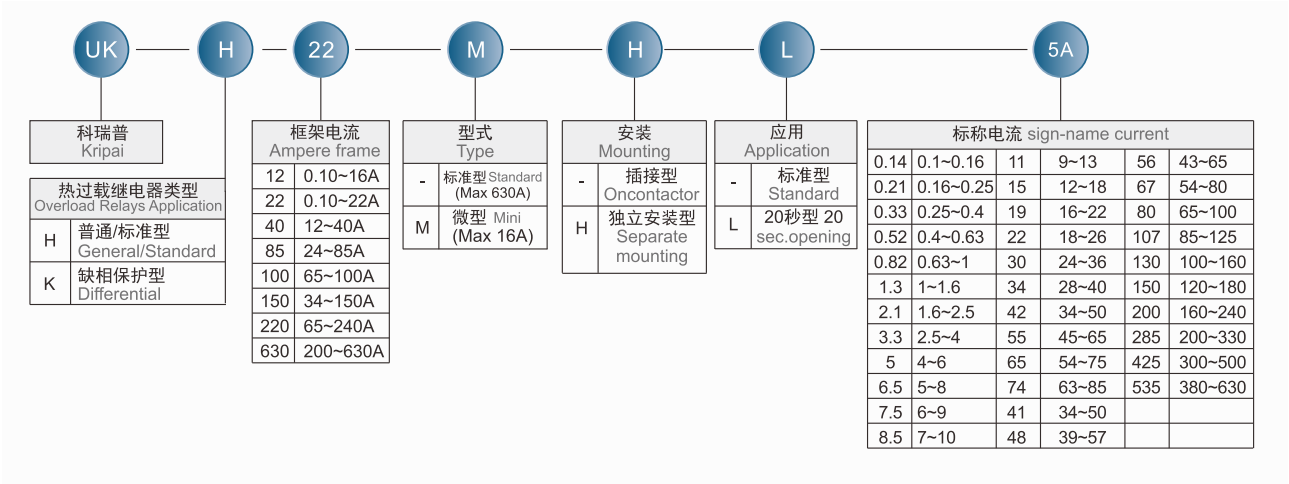


Model Definition

型号标注

热过载继电器 Thermal overload relay



Overload relay

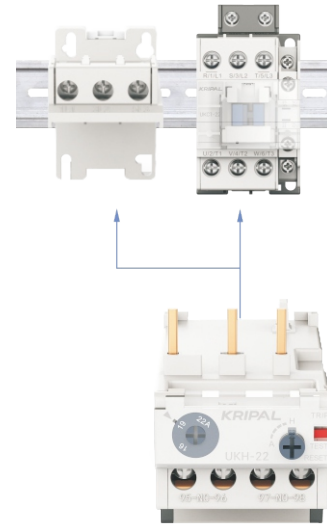
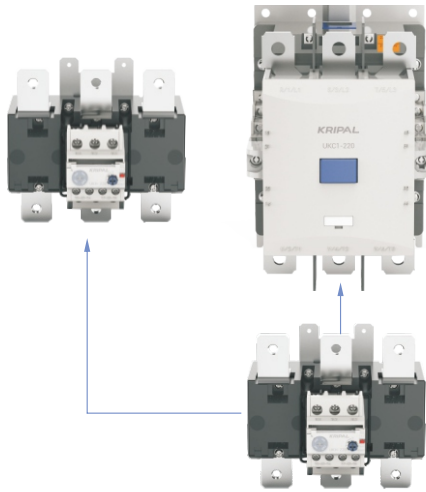
过载继电器

热(双金属片式)式, 最大到220A, UK型热过载继电器可直接与接触器插接, 也可通过附加的独立安装支架独立安装。

Thermal (bimetal element) type, max reaches 220A, UK type thermal overload relay can be connected with contactor directly or individually with the help of additional independent mounting support.

如须单独安装热过载继电器, 可使用单独支座, 并可用螺丝或导轨固定。(适用型号: UKH-22, 40, 85)

If it is required to mount the thermal overload relay separately, use single seat and fix with screws or guide track. (Application type: UKH-22, 40, 85)

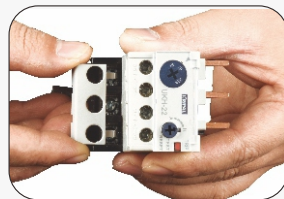
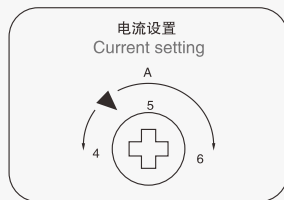


热过载继电器, 100A以上可通过螺钉直接安装在安装盘上, 根据规格选择不同的底板。

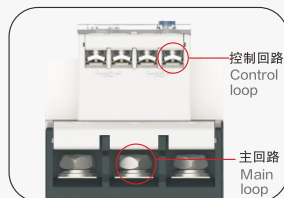
Thermal overload relay of 100A above can be installed at subpanel directly by screw, please select base plate according to the specification.

热过载继电器特点

Thermal overload relays characteristics



安全保护罩设计
Design of safety cover

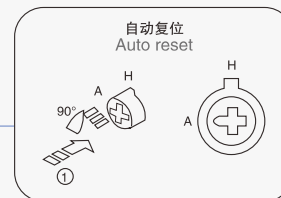
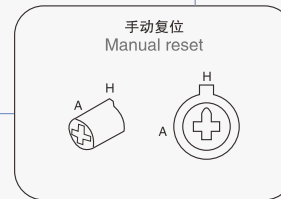
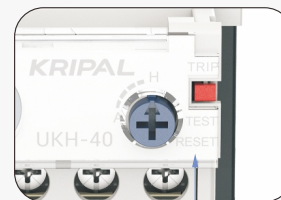


主回路端子和控制回路端子区分明显, 防止人为错误接线。

Main loop terminal has sharp difference from control loop terminal, thus it is hard to make wrong connection.

热过载继电器脱扣时会向上凸出2、3mm, 表示脱扣状态

The thermal overload relay will protrude about 2-3mm in the case of release, which shows the release status available.



设置自动复位: 按下复位按钮并向逆时针方向旋转90度

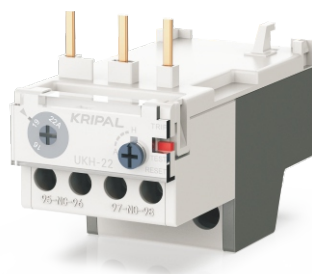
Automatic reset setting: Press down the reset button and rotate anticlockwise for 90degree.

Thermal Overload Relays

热过载继电器

选择表 Selection table(Class 10A)

3极(4极)电动机最大的功率(kw) Three poles (four poles) Max.power of motor						UKH(K)-22	UKH(K)-40	UKH(K)-85	UKH(K)-100	UKH(K)-150	UKH(K)-220	UKH(K)-630
220V	380V	415V	440V	550V	660V							
						0.1-0.16						
						0.16-0.25						
						0.37,0.5	0.25-0.4					
				0.37,0.5	0.55,0.75	0.4-0.63						
	0.37,0.5		0.55,0.75	0.75,1	1.1,1.5	0.63-1						
0.37,0.5	0.75,1	1.1,1.5	1.1,1.5	1.1,1.5	1.5,2	1-1.6						
0.75,1	1.5,2	1.5,2	1.5,2	2.2,3	3,4	1.6-2.5						
1.1,1.5	2.2,3	2.2,3	2.2,3	3,4	4,5.5	2.5-4	4-6					
1.5,2	3,4	3.7,5	3.7,5	4,5.5	5.5,7.5	4-6	5-8					
		4,5.5	4,5.5			5-8	6-9					
2.2,3	4,4.5	4,5.5	4,5.5	5.5,7.5	7.5,10	6-9	7-10	7-10				
3,4	5.5,7.5	5.5,7.5	5.5,7.5	7.5,10	10,13.5	7-10	9-13	9-13				
4,5.5	7.5,10	9,12	9,12	10,13.5	15,20	9-13	12-18	12-18				
5.5,7.5	11,15	11,15	11,15			12-18	16-22	16-22				
5.5,7.5	11,15	11,15	11,15	15,20	18.5,25	16-22	18-26	18-26				
7.5,10	15,20	15,20	15,20	18.5,25	22,30		24-36	24-36				
	15,20			18.5,25			28-40	28-40				
11,15	22,30	25,35	25,35	30,40	37,50			34-50	34-50	34-50		
15,20	25,35	30,40	30,40	37,50	45,60			45-65	39-57	39-57		
18.5,25	30,40	37,50	37,50	45,60	55,75			54-75	43-65	43-65		
22,30	37,50	45,60	45,60	55,75	63,85			63-85	54-80	54-80		
25,35	51,70	55,75	59,80	63,85	90,125				65-100	65-100	65-100	
30,40	59,80	59,80	63,85	80,110	110,150				85-125	85-125	85-125	
45,60	80,100	80,110	90,125	100,135	129,175					100-150	100-160	
55,75	90,125	100,135	110,150	110,150	160,220						120-180	
63,85	110,150	129,175	140,190	160,220	200,270						160-240	
80,110	150,205	160,220	160,220	200,270	257,350							200-330
110,150	185,250	200,270	220,300	257,350	335,455							300-500
180,245	315,430	355,480	375,510	425,580	500,680							380-630
与热过载继电器配合使用的接触器 Contactor used with thermal overload relay						UKC(D)1-9	UKC(D)1-32	UKC(D)1-50	UKC(D)1-100	UKC(D)1-150	UKC(D)1-180	UKC(D)1-330
						UKC(D)1-12	UKC(D)1-40	UKC(D)1-65	UKC(D)1-125		UKC(D)1-220	UKC(D)1-400
						UKC(D)1-18		UKC(D)1-75				UKC(D)1-500
						UKC(D)1-22		UKC(D)1-85				UKC(D)1-630

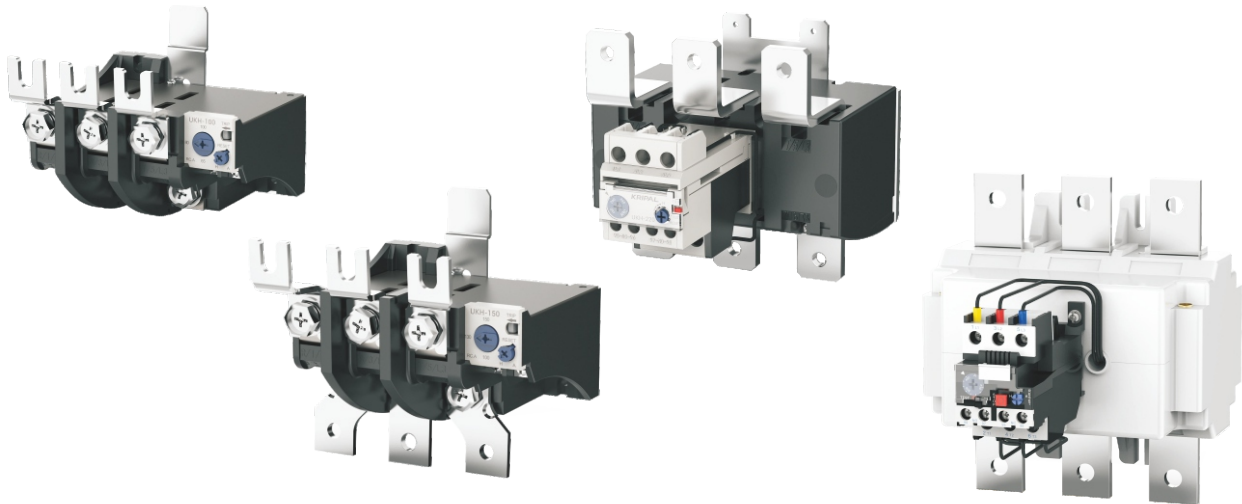


Thermal Overload Relays

热过载继电器

选择表 Selection table(Class 20A)

3极(4极)电动机最大的功率(kw) Three poles (four poles) Max.power of motor						UKK- 22/L	UKK- 40/L	UKK- 85/L	UKK- 100/L	UKK- 150/L	UKK- 220/L	UKK- 630/L
220V	380V	415V	440V	550V	660V							
0.37,0.5	0.75,1	1.1,1.5	1.1,1.5	1.1,1.5	1.5,2	1.16						
0.75,1	1.5,2	1.5,2	1.5,2	2.2,3	3,4	16-2.5						
1.1,1.5	2.2,3	2.2,3	2.2,3	3,4	4,5,5	2.5-4	4-6					
1.5,2	3,4	3.7,5	3.7,5	4,5,5	5.5,7.5	4-6	5-8					
		4,5,5	4,5,5			5-8	6-9					
2.2,3	4,4,5	4,5,5	4,5,5	5.5,7.5	7.5,10	6-9	7-10	7-10				
3,4	5.5,7.5	5.5,7.5	5.5,7.5	7.5,10	10,13.5	7-10	9-13	9-13				
4,5,5	7.5,10	9,12	9,12	10,13.5	15,20	9-13	12-18	12-18				
5.5,7.5	11,15	11,15	11,15			12-18	16-22	16-22				
5.5,7.5	11,15	11,15	11,15	15,20	18.5,25	16-22	18-26	18-26				
7.5,10	15,20	15,20	15,20	18.5,25	22,30		24-36	24-36				
	15,20			18.5,25			28-40	28-40				
11,15	22,30	25,35	25,35	30,40	37,50			34-50	34-50	34-50		
15,20	25,35	30,40	30,40	37,50	45,60			45-65	39-57	39-57		
18.5,25	30,40	37,50	37,50	45,60	55,75			54-75	43-65	43-65		
22,30	37,50	45,60	45,60	55,75	63,85			63-85	54-80	54-80		
25,35	51,70	55,75	59,80	63,85	90,125				65-100	65-100	65-100	
30,40	59,80	59,80	63,85	80,110	110,150				85-125	85-125	85-125	
45,60	80,100	80,110	90,125	100,135	129,175					100-150	100-160	
55, 75	90, 125	100, 135	110, 150	110, 150	160, 220						120-180	
63, 85	110, 150	129, 175	140, 190	160, 220	200, 270						160-240	
80,110	150,205	160,220	160,220	200,270	257, 350							200-330
110,150	185,250	200,270	220,300	257,350	335, 455							300-500
180,245	315,430	355,480	375,510	425,580	500, 680							380-630
与热过载继电器配合使用的接触器 Contactor used with thermal overload relay						UKC(D)1-9	UKC(D)1-32	UKC(D)1-50	UKC(D)1-100	UKC(D)1-150	UKC(D)1-180	UKC(D)1-330
						UKC(D)1-12	UKC(D)1-40	UKC(D)1-65	UKC(D)1-125		UKC(D)1-220	UKC(D)1-400
						UKC(D)1-18		UKC(D)1-75				UKC(D)1-500
						UKC(D)1-22		UKC(D)1-85				UKC(D)1-630



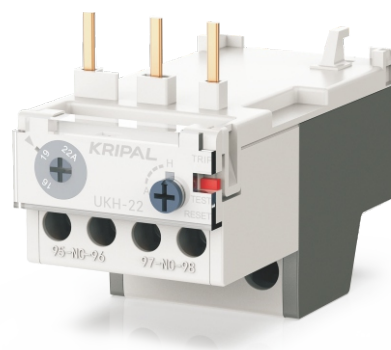
Thermal Overload Relays

热过载继电器

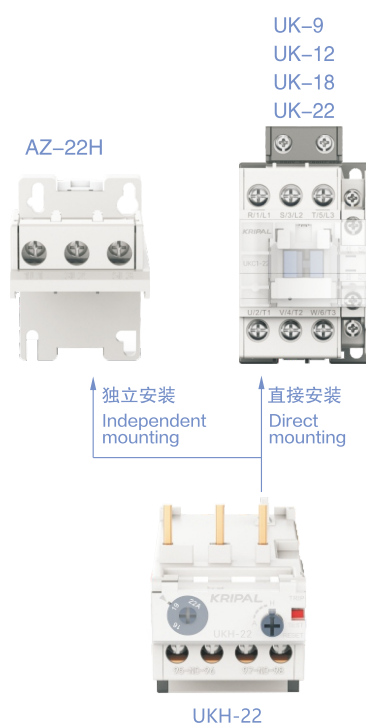
UKH-22, UKK-22L

特点 Characteristics

- 直接与UK-9,12,18,22接触器安装
 - 通过使用安装支架(AZ-22H)
可导轨或螺钉安装
 - 尺寸小: 44mm宽
 - 1NO+1NC脱扣触点
 - UKH-22—Class 10A脱扣标准
 - UKK-22/L—Class 20A脱扣标准
 - 标准型: UKH
 - 缺相保护型: UKK
 - 适用环境温度: -5-40°C
 - 手动/自动复位
 - 自由脱扣设计
 - 双金属片式
- Be mounted with UK-9,12,18,22contactor directly
 - Be mounted by guide rail or screw
through mounting support (AZ-22H)
 - Small size: 44mm width
 - 1NO+1NC tripping contact
 - UKH-22—Class 10A tripping standard
 - UKK-22/L—Class 20A tripping standard
 - Standard type: UKH
 - Phase-failure protection type: UKK
 - Applicable ambient temperature: -5-40oC
 - Manual / Automatic reset
 - Design of trip free
 - Bimetal element type



UKH-22
UKK-22/L



电流范围(A) Current range	缺相保护型 Phase-failure protection type	标准型 Standard type
0.1-0.16	UKK-22 0.16	UKH-22 0.16
0.16-0.25	UKK-22 0.25	UKH-22 0.25
0.25-0.4	UKK-22 0.4	UKH-22 0.4
0.4-0.63	UKK-22 0.63	UKH-22 0.63
0.63-1	UKK-22 1	UKH-22 1
1-1.6	UKK-22 1.6	UKH-22 1.6
1.6-2.5	UKK-22 2.5	UKH-22 2.5
2.5-4	UKK-22 4	UKH-22 4
4-6	UKK-22 6	UKH-22 6
5-8	UKK-22 8	UKH-22 8
6-9	UKK-22 9	UKH-22 9
7-10	UKK-22 10	UKH-22 10
9-13	UKK-22 13	UKH-22 13
12-18	UKK-22 18	UKH-22 18
16-22	UKK-22 22	UKH-22 22

电流范围(A) Current range	Class 20A
1-1.6	UKK-22/L 1.6
1.6-2.5	UKK-22/L 2.5
2.5-4	UKK-22/L 4
4-6	UKK-22/L 6
5-8	UKK-22/L 8
6-9	UKK-22/L 9
7-10	UKK-22/L 10
9-13	UKK-22/L 13
12-18	UKK-22/L 18
16-22	UKK-22/L 22

接线 Connection

主端子(负载) Main terminal (load)	螺钉(M4)压线式端子 Screw(M4) crimping terminal
	线径 Wire dia: 1.25~5.5mm ² /1.6~2.6
辅助触点 Auxiliary contact	螺钉(M3.5)压线式端子 Screw(M3.5) crimping terminal

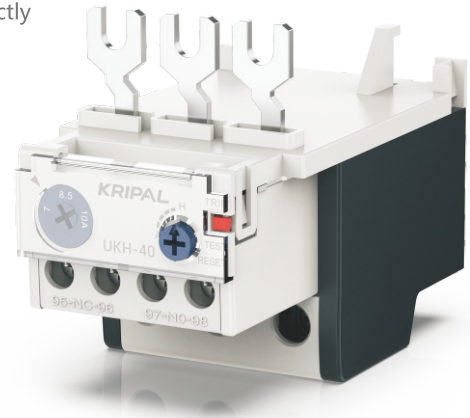
Thermal Overload Relays

热过载继电器

UKH-40, UKK-40L

特点 Characteristics

- 直接与UK-32,40接触器安装
 - 通过使用安装支架(AZ-40H)
可导轨或螺钉安装
 - 尺寸小: 53mm宽
 - 1NO+1NC脱扣触点
 - UKH-40—Class 10A脱扣标准
 - UKK-40/L—Class 20A脱扣标准
 - 标准型: UKH
 - 缺相保护型: UKK
 - 适用环境温度: -5~40℃
 - 手动/自动复位
 - 自由脱扣设计
 - 双金属片式
- Be mounted with UK-32,40 contactor directly
 - Be mounted by guide rail or screw
through mounting support (AZ-40H)
 - Small size: 53mm width
 - 1NO+1NC tripping contact
 - UKH-40—Class 10A tripping standard
 - UKK-40/L—Class 20A tripping standard
 - Standard type: UKH
 - Phase-failure protection type: UKK
 - Applicable ambient temperature: -5~40℃
 - Manual / Automatic reset
 - Design of trip free
 - Bimetal element type



UKH-40
UKK-40/L

电流范围(A) Current range	缺相保护型 Phase-failure protection type	标准型 Standard type
4-6	UKK-40 6	UKH-40/3 6
5-8	UKK-40 8	UKH-40/3 8
6-9	UKK-40 9	UKH-40/3 9
7-10	UKK-40 10	UKH-40/3 10
9-13	UKK-40 13	UKH-40/3 13
12-18	UKK-40 18	UKH-40/3 18
16-22	UKK-40 22	UKH-40/3 22
18-26	UKK-40 26	UKH-40/3 26
24-36	UKK-40 36	UKH-40/3 36
28-40	UKK-40 40	UKH-40/3 40

电流范围(A) Current range	Class 20A
4-6	UKK-40/L 6
5-8	UKK-40/L 8
6-9	UKK-40/L 9
7-10	UKK-40/L 10
9-13	UKK-40/L 13
12-18	UKK-40/L 18
16-22	UKK-40/L 22
18-26	UKK-40/L 26
24-36	UKK-40/L 36
28-40	UKK-40/L 40

AZ-40H



独立安装
Independent
mounting

UK-32
UK-40



直接安装
Direct
mounting



UK-40

接线 Connection

主端子(负载) Main terminal (load)	螺钉(M4)压线式端子 Screw(M4) crimping terminal
	线径 Wire dia: 1.25~5.5mm ² /1.6~2.6
辅助触点 Auxiliary contact	螺钉(M3.5)压线式端子 Screw(M3.5) crimping terminal

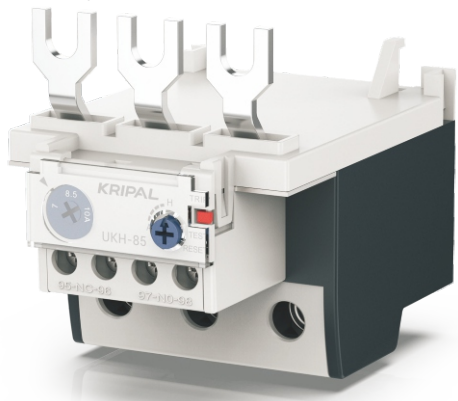
Thermal Overload Relays

热过载继电器

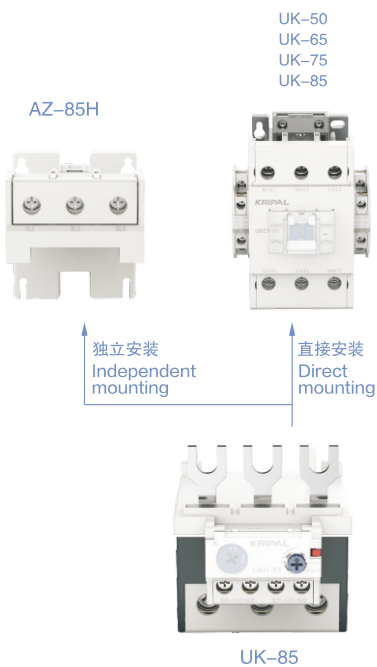
UKH-85, UKK-85L

特点 Characteristics

- 直接与UK-50,65,75,85接触器安装
 - 通过使用安装支架(AZ-85H)
可导轨或螺钉安装
 - 尺寸小: 70mm宽
 - 1NO+1NC脱扣触点
 - UKH-85—Class 10A脱扣标准
 - UKK-85/L—Class 20A脱扣标准
 - 标准型: UKH
 - 缺相保护型: UKK
 - 适用环境温度: -5~40℃
 - 手动/自动复位
 - 自由脱扣设计
 - 双金属片式
- Be mounted with UK-50,65,75,85 contactor directly
 - Be mounted by guide rail or screw through mounting support (AZ-85H)
 - Small size: 70mm width
 - 1NO+1NC tripping contact
 - UKH-40—Class 10A tripping standard
 - UKK-40/L—Class 20A tripping standard
 - Standard type: UKH
 - Phase-failure protection type: UKK
 - Applicable ambient temperature: -5~40℃
 - Manual / Automatic reset
 - Design of trip free
 - Bimetal element type



UKH-85
UKK-85/L



电流范围(A) Current range	缺相保护型 Phase-failure protection type	标准型 Standard type
7-10	UKK-85 10	UKH-85/3 10
9-13	UKK-85 13	UKH-85/3 13
12-18	UKK-85 18	UKH-85/3 18
16-22	UKK-85 22	UKH-85/3 22
18-26	UKK-85 26	UKH-85/3 26
24-36	UKK-85 36	UKH-85/3 36
28-40	UKK-85 40	UKH-85/3 40
34-50	UKK-85 50	UKH-85/3 50
45-65	UKK-85 65	UKH-85/3 60
54-75	UKK-85 75	UKH-85/3 75
63-85	UKK-85 85	UKH-85/3 85

电流范围(A) Current range	Class 20A
7-10	UKK-85/L 10
9-13	UKK-85/L 13
12-18	UKK-85/L 18
16-22	UKK-85/L 22
18-26	UKK-85/L 26
24-36	UKK-85/L 36
28-40	UKK-85/L 40
34-50	UKK-85/L 50
45-65	UKK-85/L 65
54-75	UKK-85/L 75
63-85	UKK-85/L 85

接线 Connection

主端子(负载) Main terminal (load)	50A以下 Below	螺钉(M6)压线式端子 Screw(M6) crimping terminal
		线径 Wire dia: 2~22mm ²
	65A以上 Above	螺钉(M8)压线式端子 Screw(M8) crimping terminal
		线径 Wire dia: 2~38mm ²
辅助触点 Auxiliary contact		螺钉(M16)压线式端子 Screw(M16) crimping terminal
		线径 Wire dia: 80~325mm ²
辅助触点 Auxiliary contact		螺钉(M3.5)压线式端子 Screw (M3.5) crimping terminal

Technical Specifications

技术参数

型号 Model	设置范围 Selection	电缆选择 Selection of cable		扭矩 Tightening torque(Nm)	螺丝尺寸 Screw size
		AWG/MCM	截面积(mm²) Sectional area		
UKH(K)-12M	0.10~0.16	18AWG	1.5	2.0	M3.5
	0.16~0.25	18AWG	1.5	2.0	M3.5
	0.25~0.4	18AWG	1.5	2.0	M3.5
	0.4~0.63	18AWG	1.5	2.0	M3.5
	0.63~1	18AWG	1.5	2.0	M3.5
	1~1.6	18AWG	1.5	2.0	M3.5
	1.6~2.5	18AWG	1.5	2.0	M3.5
	2.5~4	18AWG	1.5	2.0	M3.5
	4~6	18AWG	1.5	2.0	M3.5
	5~8	16AWG	1.5	2.0	M3.5
	6~9	16AWG	1.5	2.0	M3.5
	7~10	16AWG	1.5	2.0	M3.5
	9~13	14AWG	1.5~2.5	2.0	M3.5
	12~16	14AWG	1.5~2.5	2.0	M3.5
UKH(K)-22	0.10~0.16	18AWG	1.5	2.3	M4
	0.16~0.25	18AWG	1.5	2.3	M4
	0.25~0.4	18AWG	1.5	2.3	M4
	0.4~0.63	18AWG	1.5	2.3	M4
	0.63~1	18AWG	1.5	2.3	M4
	1~1.6	18AWG	1.5	2.3	M4
	1.6~2.5	18AWG	1.5	2.3	M4
	2.5~4	18AWG	1.5	2.3	M4
	4~6	18AWG	1.5	2.3	M4
	5~8	16AWG	1.5	2.3	M4
	6~9	16AWG	1.5	2.3	M4
	7~10	16AWG	1.5	2.3	M4
	9~13	14AWG	1.5~2.5	2.3	M4
	12~18	12AWG	2.5	2.3	M4
	16~22	10AWG	2.5~4.0	2.3	M4
UKH(K)-40	4~6	18AWG	1.5	4	M5
	5~8	16AWG	1.5	4	M5
	6~9	16AWG	1.5	4	M5
	7~10	16AWG	1.5	4	M5
	9~13	14AWG	1.5~2.5	4	M5
	12~18	12AWG	2.5	4	M5
	16~22	10AWG	2.5~4.0	4	M5
	18~26	10AWG	2.5~6.0	4	M5
	24~36	10AWG	4.0~10	4	M5
	28~40	10AWG	6.0~10	4	M5

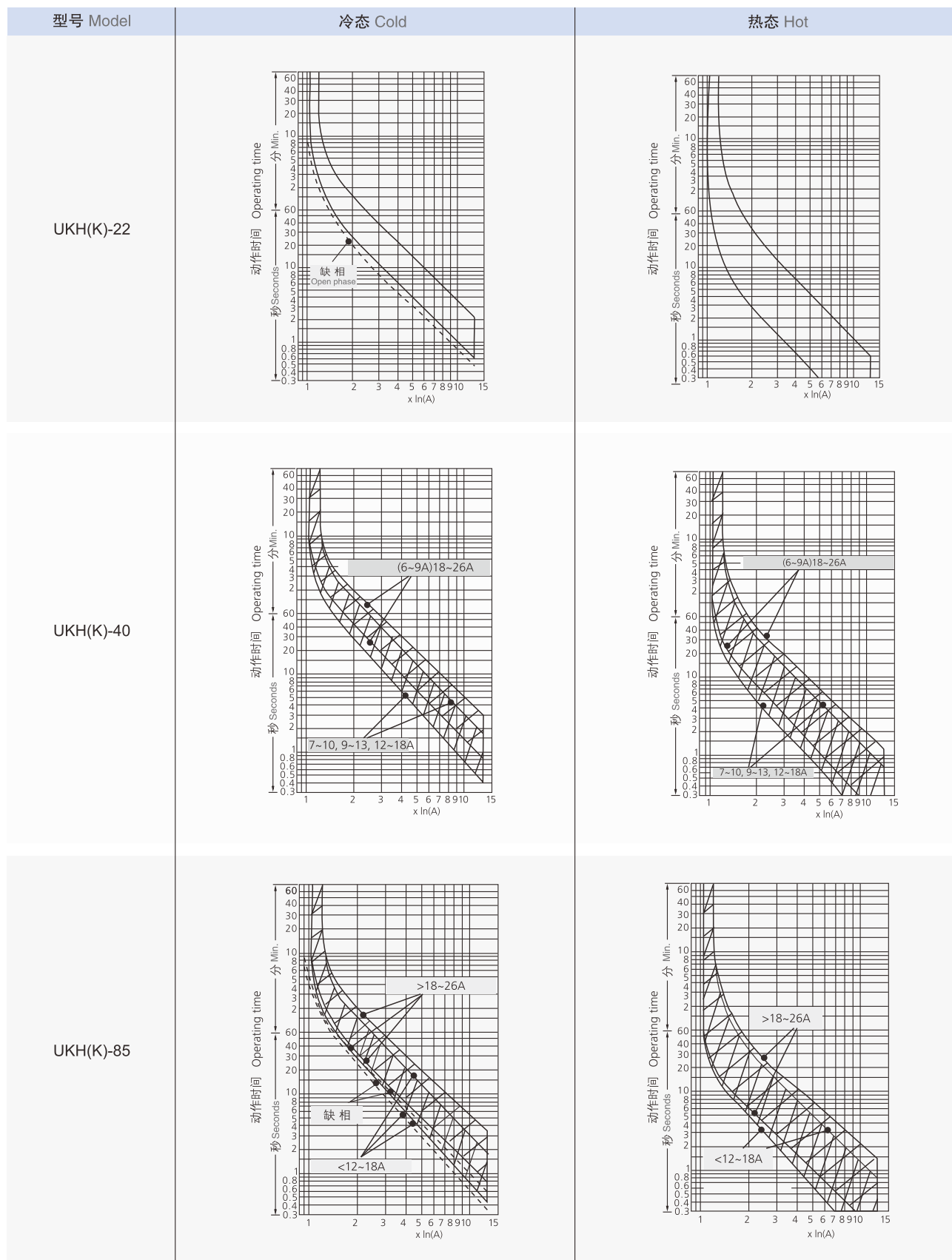
Technical Specifications

技术参数

型号 Model	设置范围 Selection	电缆选择 Selection of cable		扭矩 Tightening torque(Nm)	螺丝尺寸 Screw size
		AWG/MCM	截面积(mm²) Sectional area		
UKH(K)-85	7~10	16AWG	1.5	5.1	M6
	9~13	14AWG	1.5~2.5	5.1	M6
	12~18	12AWG	2.5	5.1	M6
	16~22	10AWG	2.5~4.0	5.1	M6
	18~26	10AWG	2.5~6.6	5.1	M6
	24~36	10AWG	4.0~10	5.1	M6
	28~40	10AWG	6.0~10	5.1	M6
	34~50	6AWG	10~16	5.1	M6
	45~65	4AWG	10~25	5.1	M8
	54~75	4AWG	16~25	5.1	M8
	63~85	3AWG	16~35	5.1	M8
UKH(K)-100	34~50	6AWG	10~16	9	M8
	39~57	6AWG	10~16	9	M8
	43~65	4AWG	10~25	9	M8
	54~80	4AWG	16~25	9	M8
	65~100	2AWG	25~35	9	M8
	85~125	1AWG	35~50	9	M8
UKH(K)-150	39~57	6AWG	10~16	9	M8
	43~65	4AWG	10~25	9	M8
	54~80	4AWG	16~25	9	M8
	65~100	2AWG	25~35	9	M8
	85~125	1AWG	35~50	9	M8
	100~150	00AWG	35~70	9	M8
UKH(K)-220	65~100	2AWG	25~35	15	M10
	85~125	1AWG	35~50	15	M10
	100~160	00AWG	35~70	15	M10
	120~180	000AWG	50~95	15	M10
	160~240	250AWG	70~120	15	M10
UKH(K)-630	200~330	400AWG	95~185	23	M12
	300~500	N°2 40 × 5	150~185	57	M16
	380~630	N°2 40 × 5	150~185	57	M16

Thermal Overload Relays Characteristics Curve

热过载继电器特性曲线图



Thermal Overload Relays Characteristics Curve

热过载继电器特性曲线图

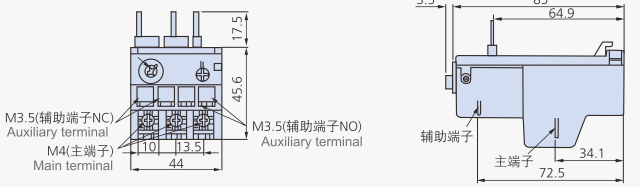
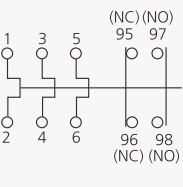
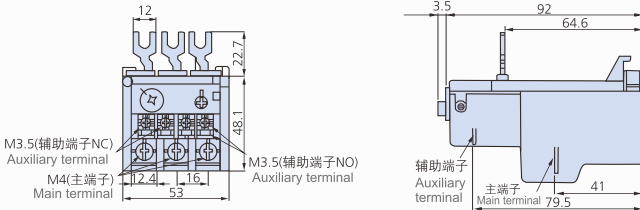
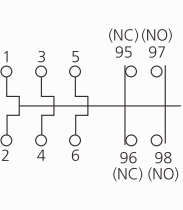
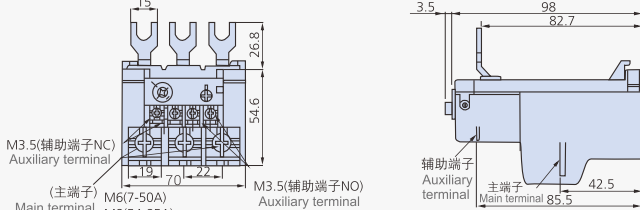
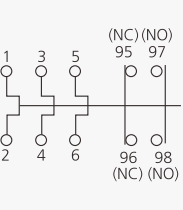
型号 Model	脱扣特性 Trip characteristics	型号 Model	脱扣特性 Trip characteristics
UKK-22/L		UKK-40/L	
UKK-85/L		UKK-100/L UKK-150/L	
UKK-220/L		UKK-630/L	

Mounting Dimensions & Wiring Diagram

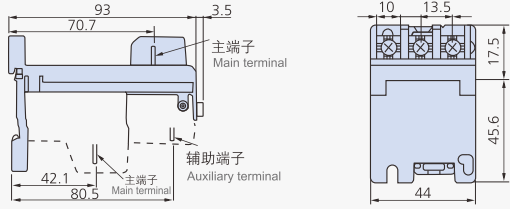
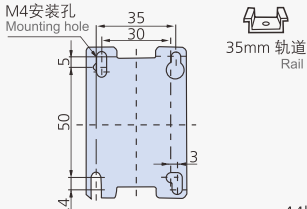
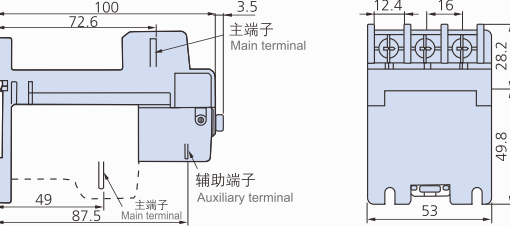
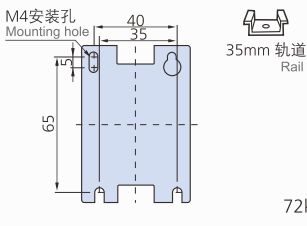
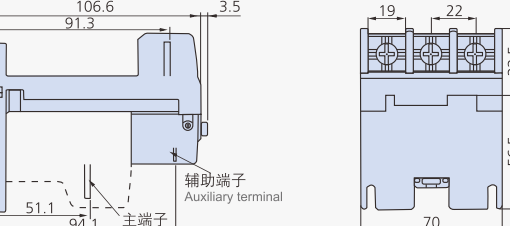
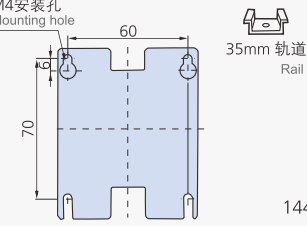
安装尺寸及接线图

热过载继电器 Thermal overload relay

UKH(K)-22~85

型号 Model	外型尺寸 External dimensions (mm)	触点构成 Contacts form
UKH(K)-22		 0.11kg
UKH(K)-40		 0.17kg
UKH(K)-85		 0.3kg

导轨连接热过载继电器 Connecting thermal overload relay with din rail

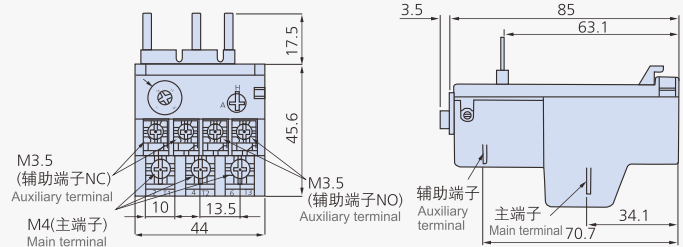
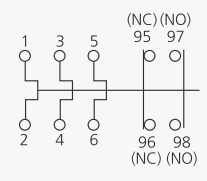
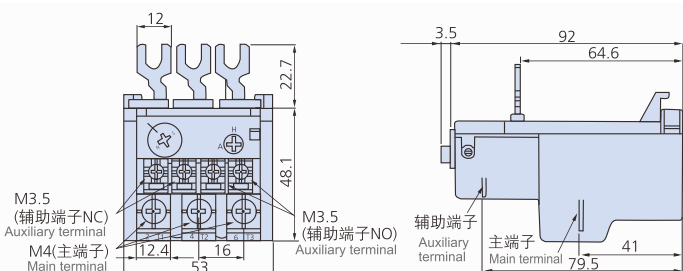
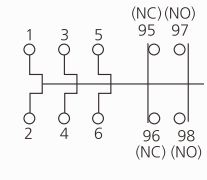
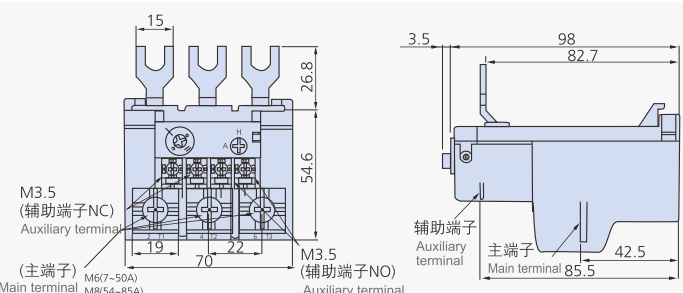
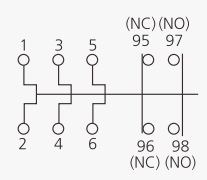
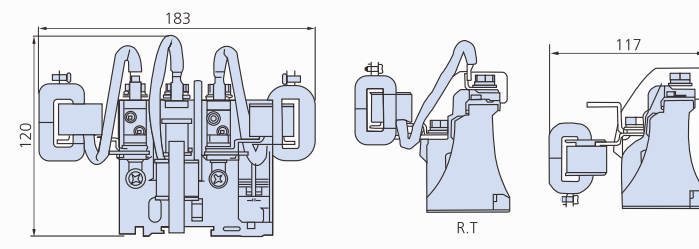
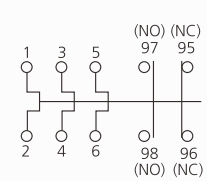
型号 Model	外型尺寸 External dimensions (mm)	触点构成 Contacts form
AZ-22H		 44kg
AZ-40H		 72kg
AZ-85H		 144g

Mounting Dimensions & Wiring Diagram

安装尺寸及接线图

热过载20秒级 Thermal overload 20 second level

UKK1-22/L~220L

型号 Model	外型尺寸 External dimensions (mm)	触点构成 Contacts torm
UKK-22L		 0.11kg
UKK-40L		 0.17kg
UKK-85L		 0.3kg
UKK-100/L~150L		
UKK-220L	