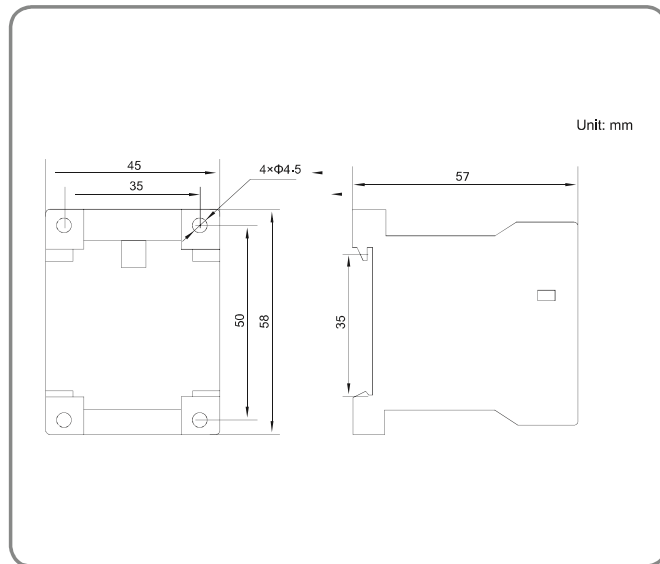


## HDC17-K Mini AC Contactor

Standard: IEC 60947-4-1



### Overall Dimensions



## HDR3s Thermal Overload Relay

Functions and features



### Main technical parameters

HDR3s Thermal Overload Relay			
Temperature compensation		-5°C~+40°C	
Trip level	10A	HDR3s-25,38	
	10	HDR3s-93	
Rated insulation voltage(Ui)	V	660V	
Product features			
Overload protection		Yes	
Phase-failure protection		Yes	
Manual reset		Yes	
Automatic reset		Yes	
Stop button		Yes	
Test button		Yes	
Trip indication		Yes	
Tolerance on slope in any direction		±5°	
Auxiliary circuit			
Utilization category		AC-15	DC-13
Rated frequency	HZ	50/60	50/60
Rated insulation voltage (Ui)	V	500	500
Rated operating voltage (Ue)	V	230	230
Rated operating current Ie	A	1.57	0.90
Conventional thermal current Ith	A NO	5	5
	NC	5	5
Product Certification		CB, CE, SEMKO	

### Base



Name	Reference
HDR3s-25	HJRS1D25J
HDR3s-38	HJRS1D36J
HDR3s-93	HJRS1D93J



## HDR3s Thermal Overload Relay

Functions and features  
Standard: IEC/EN 60947-4-1



### Tripping Characteristic

No.	Multiples of Current Setting	Tripping Time		Initial Condition	Reference Ambient Air Temperature
		Trip class 10A	Trip class 10		
<b>Limits of operation of time-delay overload relays when energized on all poles</b>					
1	1.05	Non-tripping within 2h	Non-tripping within 2h	Cold State	+20°C
2	1.2	Tripping within 2h	Tripping within 2h	After No.1 Test (Thermal Equilibrium)	
3	1.5	<2min	<4min	After No.1 Test (Thermal Equilibrium)	
4	7.2	2s<Tp≤10s	4s<Tp≤10s	Cold State	+20°C
<b>Limits of operation of three-pole thermal overload relays when energized on two poles only</b>					
When the value of current flowing in two poles and the third pole de-energized					
1	1.0	Non-tripping within 2h	Non-tripping within 2h	Cold State	+20°C
2	1.15	Tripping within 2h	Tripping within 2h	After No.1 Test (Thermal Equilibrium)	

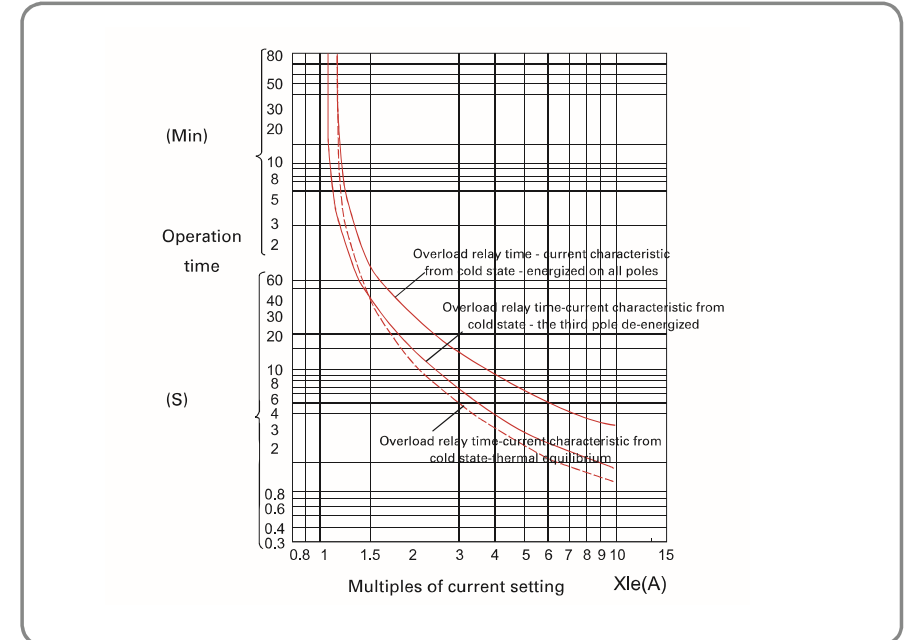
## HDR3s Thermal Overload Relay

Functions and features



### Tripping Characteristics

Average value (Environment temperature 20°C)

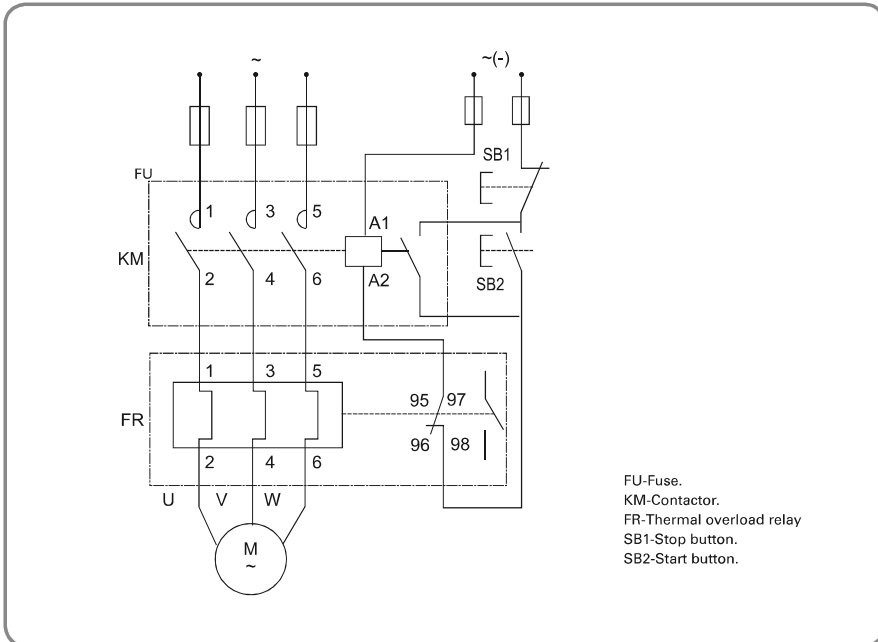


## HDR3s Thermal Overload Relay

Functions and features  
Standard:IEC/EN 60947-4-1



### Installation wiring diagram



## HDR3s Thermal Overload Relay

Order Information  
Standard:IEC/EN 60947-4-1



### HDR3s Thermal Overload Relay

Product Name	Frame current	Auxiliary Contact
HDR3s	25	P16
	↓	↓
	25:25A 38:38A 93:93A	1P6: 1.0-1.6A P16: 0.1-0.16 ... 93: 80-93A P means decimal point

Frame Current (A)	Setting Current(A)	Matched Fuse	Matched Contactor	Reference
25	0.1-0.16 0.16-0.25 0.25-0.4 0.4-0.63 0.63-1 1-1.6 1.6-2.5 2.5-4 4-6 5.5-8 7-10 9-13 12-18 17-25	Recommended HRT16	Recommended HDC3	
		4	09-38	HDR3s25P16
		4	09-38	HDR3s25P25
		4	09-38	HDR3s25P4
		4	09-38	HDR3s25P63
		4	09-38	HDR3s251
		4	09-38	HDR3s251P6
		6	09-38	HDR3s252P5
		10	09-38	HDR3s254
		16	09-38	HDR3s256
		20	09-38	HDR3s258
		20	09-38	HDR3s2510
38	23-32 30-40	63	25-32	HDR3s3832
		80	32-38	HDR3s3840
93	7.0-10 9.0-13 12-18 17-25 23-32 30-40 37-50 48-65 55-70 63-80 80-93	20	40-95	HDR3s9310
		25	40-95	HDR3s9313
		35	40-95	HDR3s9318
		50	40-95	HDR3s9325
		63	40-95	HDR3s9332
		80	40-95	HDR3s9340
		100	50-95	HDR3s9350
		100	50-95	HDR3s9365
		125	65-95	HDR3s9370
		125	80-95	HDR3s9380
160	95	95	HDR3s9393	

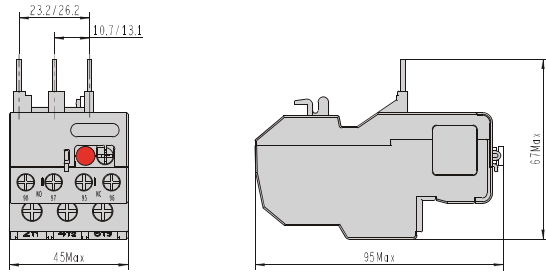


## HDR3s Thermal Overload Relay

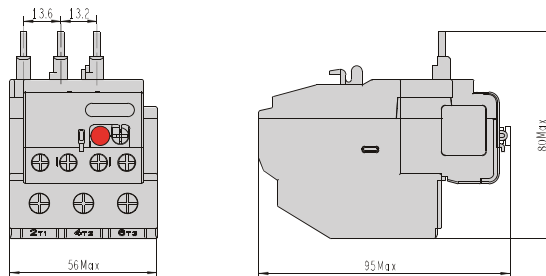
Overall and installation dimensions  
Standard: IEC/EN 60947-4-1



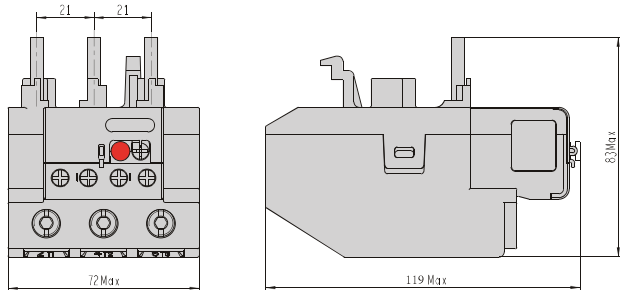
### Overall dimensional drawing of HDR3s-25/Z



### Overall dimensional drawing of HDR3s-38/Z



### Overall dimensional drawing of HDR3s-93/Z

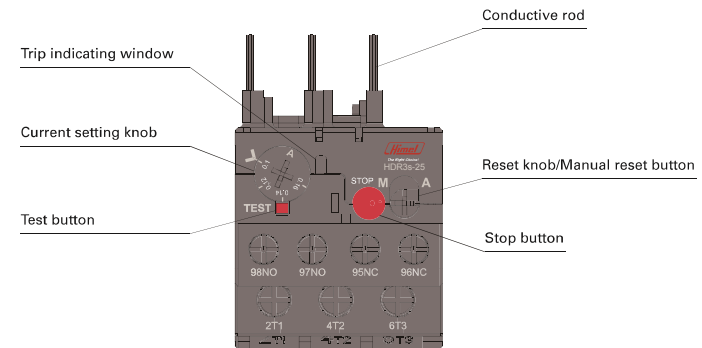


## HDR3s Thermal Overload Relay

Introduction  
Standard: IEC/EN 60947-4-1



### Function Introduction



#### 1, Trip indicating window



When the thermal overload relay tripped, the trip indicating window will show orange color, which means "tripped"

#### 2, Current setting knob



Set the adjusting current for the electric motor

#### 3, Test button



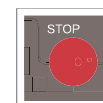
Simulate "trip" (make NO, NC contacts act) to check the control circuit

#### 4, Reset knob/Manual reset button



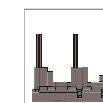
Reset knob:  
When the wedge points to M: Manual reset  
When the wedge points to A: Automatic reset  
Manual reset button:  
When the thermal overload relay tripped (indicating window shows orange color), push this button to reset the relay.

#### 5, Stop button



Make the NC contacts act, but not affect the NO contacts.  
When push STOP button, the control circuit will be open, and motor stops working.

#### 6, Conductive rod



Can be inserted into main circuit terminal of the contactor. The square rod increase the contact surface, and make the wire connection more tight.