

Specifications



Thermal Overload Relay, UER1-40, Class 10A

Main

Product Series	UER1					
Product or Component Type	Thermal overload relay					
Device Short Name	UER1-40					
Relay Application	Motor protection					
Product Compatibility	UEC1-09 ~ 38					
Thermal Protection Adjustment Range	Code	Current setting range A	Code	Current setting range A	Code	Current setting range A
	0.16	0.1 ~ 0.16	2.5	1.8 ~ 2.5	21.5	17.5 ~ 21.5
	0.25	0.16 ~ 0.25	3.2	2.3 ~ 3.2	25	21 ~ 25
	0.4	0.25 ~ 0.4	4.0	2.9 ~ 4.0	30	24.5 ~ 30
	0.5	0.35 ~ 0.5	4.8	3.5 ~ 4.8	36	29 ~ 36
	0.63	0.45 ~ 0.63	6.3	4.5 ~ 6.3	38	33 ~ 38
	0.8	0.55 ~ 0.8	7.5	5.5 ~ 7.5		
	1.0	0.75 ~ 1.0	10	7.2 ~ 10		
	1.3	0.9 ~ 1.3	12.5	9 ~ 12.5		
	1.6	1.1 ~ 1.6	16	11.3 ~ 16		
	2.0	1.4 ~ 2.0	20	15 ~ 20		

Complementary

Control Type	Red push-button stop (make the NC contact move without affecting the NO contact)
	Blue push-button reset

Auxiliary Contact Composition	1NO+1NC
Permissible Current	6A 120V AC-15 signalling circuit 3A 240V AC-15 signalling circuit 1.9A 380V AC-15 signalling circuit 1.5A 480V AC-15 signalling circuit 1.4A 500V AC-15 signalling circuit 1.2A 600V AC-15 signalling circuit 0.55A 120V DC-13 signalling circuit 0.27A 240V DC-13 signalling circuit
Trip Class	Class 10A IEC 60947-4-1
Tripping Threshold	1.16 ± 0.08 In IEC 60947-4-1
Phase Failure Sensitivity	Tripping current 130 % of Ir on two phase, the last one at 0 IEC 60947-4-1
[Uimp] Rated Impulse Withstand Voltage	6 kV
[Ith] Conventional Free Air Thermal Current	10 A signalling circuit
Mounting Support	Combined mounting : Plug connect with AC contactor Independent mounting : Screw or 35mm DIN rail
Connections-Terminals	Control circuit: screw clamp terminals 1 1...2.5 mm ² (AWG 18...14) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1...2.5 mm ² (AWG 18...14) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 1...2.5 mm ² (AWG 18...14) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 1...2.5 mm ² (AWG 18...14) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1...2.5 mm ² (AWG 18...14) - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 1...2.5 mm ² (AWG 18...14) - cable stiffness: solid without cable end Control circuit: screw M3.5, terminal width ≤ 8.1 mm

	<p>Code < 30:</p> <p>Power circuit: screw clamp terminals 1 1...6 mm² (AWG 18...10) - cable stiffness: flexible without cable end</p> <p>Power circuit: screw clamp terminals 2 1...6 mm² (AWG 18...10) - cable stiffness: flexible without cable end</p> <p>Power circuit: screw clamp terminals 1 1...6 mm² (AWG 18...10) - cable stiffness: flexible with cable end</p> <p>Power circuit: screw clamp terminals 2 1...6 mm² (AWG 18...10) - cable stiffness: flexible with cable end</p> <p>Power circuit: screw clamp terminals 1 1...6 mm² (AWG 18...10) - cable stiffness: solid without cable end</p> <p>Power circuit: screw clamp terminals 2 1...6 mm² (AWG 18...10) - cable stiffness: solid without cable end</p>
	<p>Code ≥ 30:</p> <p>Power circuit: screw clamp terminals 1 1...6 mm² (AWG 18...10) - cable stiffness: flexible with cable end</p> <p>Power circuit: screw clamp terminals 2 1...6 mm² (AWG 18...10) - cable stiffness: flexible with cable end</p>
Tightening Torque	<p>Control circuit: 7...11 lb.in (0.8...1.2 N·m) - on screw clamp terminals</p> <p>Power circuit:</p> <p>Code < 30: 11...16 lb.in (1.2...1.8 N·m) - on screw clamp terminals</p> <p>Code ≥ 30: 18...22 lb.in (2.0...2.5 N·m) - on screw clamp terminals</p>
Height	<p>Combined mounting: 69 mm (code < 30) ; 88.5 mm (code ≥ 30)</p> <p>Independent mounting: 78.5 mm (code < 30) ; 93.5 mm (code ≥ 30)</p>
Width	<p>Combined mounting: 45 mm</p> <p>Independent mounting: 49 mm</p>
Depth	<p>Combined mounting: 63.5 mm</p> <p>Independent mounting: 70 mm</p>
Net Weight	<p>Combined mounting: 0.114 kg (code < 30) ; 0.142 kg (code ≥ 30)</p> <p>Independent mounting: 0.170 kg (code < 30) ; 0.193 kg (code ≥ 30)</p>

Environment

Standards	<p>GB/T 14048.4, GB/T 14048.5, IEC/EN 60947-4-1, IEC/EN 60947-5-1,</p> <p>BS EN 60947-4-1, BS EN 60947-5-1</p>
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Product Certifications	CCC, CE, UKCA
IP Degree Of Protection	IP20 (suitable for front) (except for external terminals)
Ambient Air Temperature For Operation	-5...+60 °C
Ambient Air Temperature For Storage	-40...+70 °C
Operating altitude	0... 2000 m without derating

Packing Units	Combined	Combined	Independent	Independent
	mounting (code < 30)	mounting (code ≥ 30)	mounting (code < 30)	mounting (code ≥ 30)
Unit Type Of Package 1	1 box	1 box	1 box	1 box
Number Of Units In Package 1	1 pcs	1 pcs	1 pcs	1 pcs
Package 1 Height	6.7 cm	7.6 cm	9.6 cm	7.6 cm
Package 1 Width	4.9 cm	5.3 cm	5.7 cm	5.3 cm
Package 1 Length	7.2 cm	9.8 cm	7.7 cm	9.8 cm
Package 1 Weight	0.17 kg	0.19 kg	0.22 kg	0.24 kg
Unit Type Of Package 2	1 carton	1 carton	1 carton	1 carton
Number Of Units In Package 2	80 pcs	48 pcs	72 pcs	48 pcs
Package 2 Height	31.0 cm	27.0 cm	23.4 cm	27.0 cm
Package 2 Width	28.5 cm	25.2 cm	38.2 cm	25.2 cm
Package 2 Length	32.8 cm	43.2 cm	50.2 cm	43.2 cm
Package 2 Weight	11.20 kg	8.70 kg	14.10 kg	11.10 kg

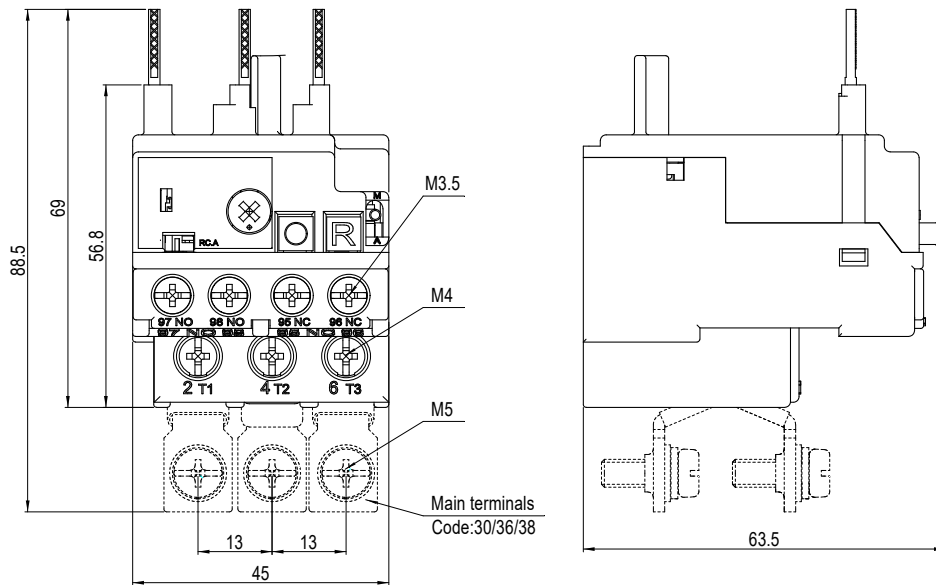
Offer Sustainability

EU RoHS Directive	Conforming
Mercury Free	Yes
China RoHS Regulation	Conforming
Products Outside China RoHS Control	Yes
RoHS Exemption Information	Yes

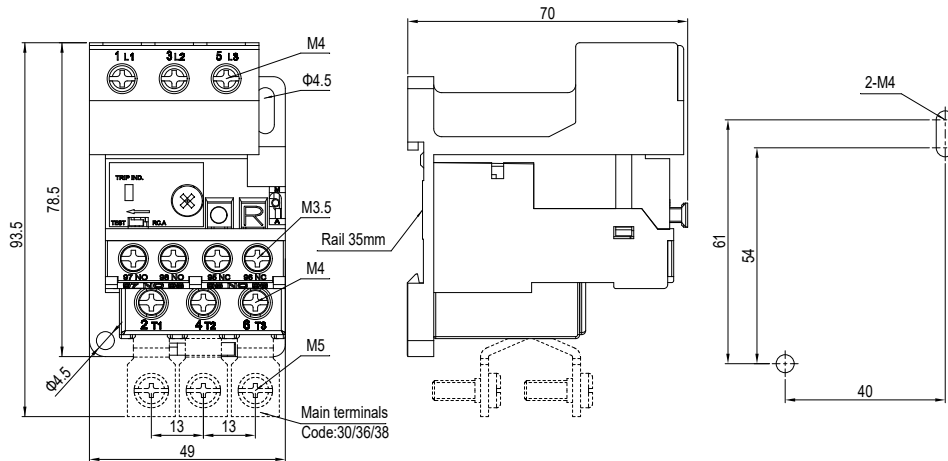
Contractual warranty

Warranty	18 months
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Dimensions



UER1-40/□□Z combined mounting



UER1-40/□□D independent mounting

Note: The unit is mm. The tolerance for mounting holes: ± 0.5 ; for other external dimensions: ± 2 , unless otherwise specified.

Circuit Diagram

