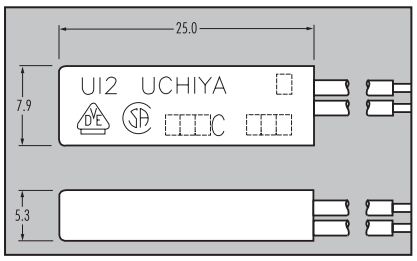
HOLROYD

Technical Pack

UCHIYA U12 Thermostat

STANDARD SPECIFICATIONS		FEATURES	SAMPLE APPLICATIONS
Open Temperature, 5° C steps		PBT Enclosure	Transformer Protector
Min: 60 degrees C Max: See Approvals		Snap Action Type BiMetal Thermostat	Heating Element Protection
Tolerance:	+/- 5° C		
Reset: (60° ~ 110°) :30K Differential: (115° ~ 125°) :35K (130° -) :40K		AWG #20 Insulated Lead Wire	Protection of Electronic Circuits
Reset Tolerance:	+/-15° C	Worldwide safety Approvals	Power Transistor Protection



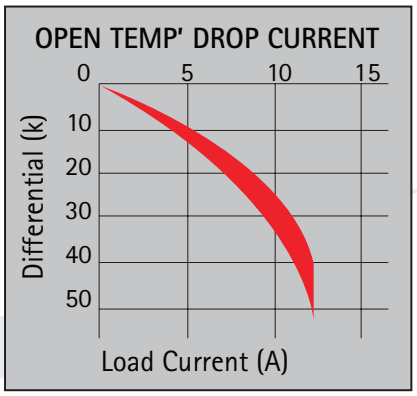
U12 = Insulated stranded lead wire
Standard lead wire length 100mm

U12 THERMAL PROTECTORS:

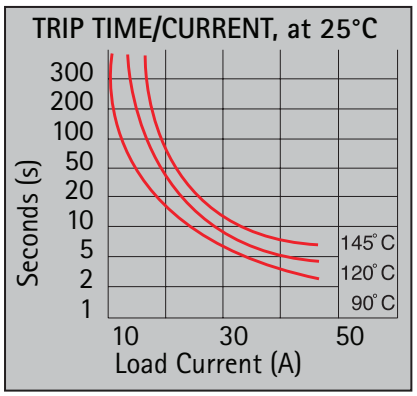
This is the largest of the Uchiya range manufactured by Uchiya Ireland Limited.

CURRENT SENSITIVITY:

Depending on the heat absorption of an application, the U12 will show varying levels of self-heating at higher current loads.
The graphs opposite are for indication only, we recommend that tests be carried out before specifying U12 for high current applications.



Graph 1, shows the relationship between change in operation temperature and load current for parts tested in air.



Graph 2, shows the trip time due to self-heating for various over current values. Tests were carried out at 25°C in air. The differential would be lower and the trip time longer if any heat sinking takes place.

APPROVAL DATA FOR U12:

Approval Body	Uchiya File No.	Approval Standard	Approved as	Electrical	Max Temp°C	Max Cycles
UL	UL E50124	UL- 873	Thermostat	125V AC 6A 125V AC 12A	140 140	100,000 6,000
UL	UL E52703	UL- 547	Motor Protector	125V AC 1/2 HP	150	
CSA	LR 35080-3	CSA C22.2 No. 24 ~ 93 77 ~ 88	Thermal Cut Out Motor Protector	125V AC 6A	145	100,000
VDE	8921-4510-7029	EN60730-1 EN60730-2-9	Thermal Cut Out	250V AC 10A	155	10,000
VDE	8921-4510-7029	EN60730-1 EN60730-2-9	Thermal Cut Out	250V AC 10(8) A*	155	1,000
VDE	8921-4510-7028	EN60730-1 EN60730-2-2	Thermal Motor Protector	250V AC	155	

* 10(8) A signifies 10A resistive and 8A inductive

ADDITIONAL SPECIFICATIONS:

Contact Resistance	High Voltage Insulation	Insulation Resistance	Protection Class	Insulation Class
< 50 mΩ	2.5 kV (10 mA)	1000V DC (100 MΩ)	I	IP00

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