## **Motor Control Timers**

- Brown Out Timer with 3 Functions: ON Delay, Interval, Pulse
- Detects Voltage Dips and Momentary Lossof Supply & Resets the control panel
- Low Power Consumption
- Fast Response Time
- · LED indications for Healthy & Unhealthy conditions
- Excellent Noise Immunity to the latest IEC standards



## **Ordering Information**

Cat. No.	Description
23UDT0	110 VAC, Brown Out Timer with 3 Functions, 1 C/O
27UDT0	240 VAC, Brown Out Timer with 3 Functions, 1 C/O

## **Motor Control Timers**



Functional Diagram    Pulse	Cat. No.			23UDT0	27UDT0	
Functional Diagram     Comparison   Compari	Param	eters				
Functional Diagram  ### R	Timer [	Description		Brown O	ut Timer	
R	Modes					
Supply Variation	Functional Diagram			RIT		
Supply Variation	Supply	Voltage (山)		110 VAC	240 VAC	
Frequency					- 40% to +10% (of 中)	
Power Consumption (Max.)    Power Consumption (Max.)   6 VA						
Timing Range   0.3s to 30s   0.3s to 30s     Initiate Time   Max. 200 ms   Max. 200 ms     Initiate Time   Max.		•	Max )	11111		
Initiate Time		. ,	IVIGAL)		17 11 1	
Trip Voltage				2,000 10 000		
Recovery Voltage   96 V (± 4 V)   184 V (± 4 V)						
Voltage   Interruptions   15 ms (Max.)   30 ms (Max.)   30 ms (Max.)   30 ms (Max.)   5 % of Full scale   ± 1 %   5 % of Full scale   ± 1 %   1 C/O   20 contact Rating   5A @ 240 VAC / 28 VDC (Resistive)   21 ctrical Life   1 x10 5   20 contact Life   1 x10 7   20 contact Life   20 contact Life Life   20 contact Life   20 contact Life		0		, ,	, ,	
Time   Voltage Dips   30 ms (Max.)			erruntions	` ,	104 ( 2 4 ( )	
20   20   20   20   20   20   20   20				· ,		
Relay Output	Setting Accuracy			± 5% of Full scale		
Output         Contact Rating Electrical Life         5A @ 240 VAC / 28 VDC (Resistive)           Mechanical Life         1x10 <sup>5</sup> Mechanical Life         1x10 <sup>7</sup> Utilization Category         AC - 15 DC - 13 Rated Voltage (Ue): 120/240 V, Rated Current (Ie): 3.0/1.5 A           Deparating Temperature Storage Temperature         -10°C to +55°C - 10°C to +60°C           Storage Temperature         95% (Rh)           LED Indication         Healthy Condition: Flashing, Unhealthy Condition: Blinking           Colour         Amber           Enclosure         Flame Retardant UL94-V0           Dimension (W x H x D) (in mm)         22.5 X 75 X 100.5           Weight (unpacked)         130 g           Mounting         Base / DIN rail           Certification         Certification		•				
Sutput   Electrical Life   1x10°   Mechanical Life   1x10°	_	Contact Rating				
Mechanical Life 1x10 <sup>7</sup> Outilization Category Deprating Temperature Storage Temperature  Humidity (Non Condensing) Plank Colour Amber Colour Amber Storage Temperation (W x H x D) (in mm) Plank Certification Deprating Temperature Storage Temperat	Output	1		<u> </u>		
DC - 13 Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.1 A  Operating Temperature Storage Temperature Humidity (Non Condensing)  DC - 13 Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.1 A  -10°C to +55°C -10°C to +60°C  Humidity (Non Condensing)  95% (Rh) Healthy Condition: Flashing, Unhealthy Condition: Blinking  Colour Amber Red  Flame Retardant UL94-V0  Dimension (W x H x D) (in mm)  22.5 X 75 X 100.5  Weight (unpacked)  Mounting  Base / DIN rail  Certification						
DC - 13 Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.1 A  Operating Temperature Storage Temperature Humidity (Non Condensing)  DC - 13 Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.1 A  -10°C to +55°C -10°C to +60°C  Humidity (Non Condensing)  95% (Rh) Healthy Condition: Flashing, Unhealthy Condition: Blinking  Colour Amber Red  Flame Retardant UL94-V0  Dimension (W x H x D) (in mm)  22.5 X 75 X 100.5  Weight (unpacked)  Mounting  Base / DIN rail  Certification			AC - 15	Rated Voltage (Ue): 120/240 V, Rated Current (le):	3.0/1.5 A	
Storage Temperature  -10°C to +60°C  Humidity (Non Condensing)  95% (Rh)  Healthy Condition: Flashing, Unhealthy Condition: Blinking  Colour Amber Red  Enclosure  Dimension (W x H x D) (in mm)  22.5 X 75 X 100.5  Weight (unpacked)  Mounting  Base / DIN rail  Certification	Utilizati		DC - 13			
Humidity (Non Condensing)  Jest Manager State of Colour Amber State of Colour Amber Red  Enclosure Flame Retardant UL94-V0  Dimension (W x H x D) (in mm)  Weight (unpacked)  Mounting Base / DIN rail  Certification  Jest Med State of Conduction: Blinking Red  Red  Red  Amber Retardant UL94-V0  22.5 X 75 X 100.5  Jest Med State of Conduction: Blinking Red  Red  Colour Amber Red  Red  Amber Red  Flame Retardant UL94-V0  22.5 X 75 X 100.5  Weight (unpacked)  Base / DIN rail  Certification	Operating Temperature		е	-10°C to +55°C		
Healthy Condition: Flashing, Unhealthy Condition: Blinking Colour Amber Red  Enclosure Flame Retardant UL94-V0 Dimension (W x H x D) (in mm) 22.5 X 75 X 100.5  Weight (unpacked) 130 g  Mounting Base / DIN rail  Certification	Storage Temperature			-10°C to +60°C		
Colour Amber Red  Enclosure Flame Retardant UL94-V0  Dimension (W x H x D) (in mm) 22.5 X 75 X 100.5  Weight (unpacked) 130 g  Mounting Base / DIN rail  Certification	Humidity (Non Condensing)		nsing)	95% (Rh)		
Colour Amber Red  Enclosure Flame Retardant UL94-V0  Dimension (W x H x D) (in mm) 22.5 X 75 X 100.5  Weight (unpacked) 130 g  Mounting Base / DIN rail  Certification (		dication		Healthy Condition: Flashing, Unhealthy Condition:	Blinking	
Dimension (W x H x D) (in mm)         22.5 X 75 X 100.5           Weight (unpacked)         130 g           Mounting         Base / DIN rail           Certification         CE Compliant			Colour	Amber	Red	
Weight (unpacked)  130 g  Mounting  Base / DIN rail  Certification  (	Enclosure			Flame Retardant UL94-V0		
Mounting Base / DIN rail Certification (€ Complies	Dimension (W x H x D) (in mm)		)) (in mm)	22.5 X 75 X 100.5		
Certification (	Weight (unpacked)			130 g		
	Mounting			Base / DIN rail		
Degree of Protection IP 20 for Terminals, IP 40 for Enclosure	Certification			C € Vocatis Complians		
The state of the s	Degree of Protection			IP 20 for Terminals, IP 40 for Enclosure		

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Harmonic Current Emissions	IEC 61000-3-2
ESD	IEC 61000-4-2
Radiated Susceptibility	IEC 61000-4-3
Electrical Fast Transients	IEC 61000-4-4
Surges	IEC 61000-4-5
Conducted Susceptibility	IEC 61000-4-6
Voltage Dips & Interruptions (AC)	IEC 61000-4-11
Conducted Emission	CISPR 14-1
Radiated Emission	CISPR 14-1

## Environmental

IEC 60068-2-1 IEC 60068-2-2 IEC 60068-2-6 Cold Heat Dry Heat Vibration Repetitive Shock Non-Repetitive Shock IEC 60068-2-27 IEC 60068-2-27