

IEC technical data Overload relays

Type	T7DU
Standards: (major international and European standards)	IEC 947-4-1, UL 508 EN 60 947-4-1
Approvals, certificates	UL, CSA
4 Rated insulation voltage U ^I acc. to IEC 158-1, IEC 947-4-1 acc. to IEC / UL 508Ui/V660V / 600V	V 690V
Impulse withstand voltage U _{impkV6} acc. to IEC 947-4-1	
Permissible ambient temperature	
<ul style="list-style-type: none"> • for storage °C • with compensated operation °C <li style="padding-left: 20px;">– open °C <li style="padding-left: 20px;">– enclosed °C 	-40 to 70 -25° to + 50°C -25° to + 40°C
Climatic resistance according to	IEC 68-2-3, IEC 68-2-30
Mounting position	±30° from vertical position not horizontally, not upside down Side by side mounting distance, 5mm
Resistance to shock *Critical shock direction A1, A2	Shock duration ms multiple of g
	10 10
Resistance to vibrations (±1 mm, 50 Hz)	multiple of g
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Mounting	• on contactor
	Hooking underneath the contactor, screwing on its main terminal
Terminal types and connecting capacity of main conductors (on motor side)	
<ul style="list-style-type: none"> • Screw terminals (screw size) <ul style="list-style-type: none"> • with self-disengaging clamping piece • with terminal block • with busbar or cable lugs • connection cross sections <ul style="list-style-type: none"> • single-core or stranded Awg/mm² • flexible with connector sleeve mm² 	M3.5 – – 2 x 18 – 14 / 2 x 0.75 – 2.5 2 x 0.5 – 1.5
Terminals and auxiliary conductors	
<ul style="list-style-type: none"> • Screw terminals (screw size) <ul style="list-style-type: none"> • with self-disengaging clamping piece • connection cross sections <ul style="list-style-type: none"> • single-core or stranded Awg/mm² • flexible with connector sleeve mm² 	M3.5 2 x 18 – 14 / 2 x 0.75 – 2.5 2 x 0.5 – 1.5
Protection degree to IEC 947-1/EN 60 947-1	All terminals are safe from finger-touch and touch by the back of the hand in accordance with VDE 0106, Part 100
Power pole technical data	
Number of poles	3
Setting ranges	see order codes
Tripping class acc. to IEC 947-4-1/EN 60 947-4-1	10A
Frequency limit	Hz 0 – 400
Switching frequency up to 15 ops./h or 60 ops./h with 40% on load factor without early tripping if starting current not higher than 6 x I _n and starting time not longer than 1s	

Approvals

UL USA	CSA Canada	EZU Czech. Republic	PTB Germany	GL Germany	LRS Great Britain
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Legend:

- Standard design approved: identification plates bear the approval marks if it is mandatory
- Submitted for approval