

# Technical data

## E200/320/500/800/1250DU

Electronic  
Overload  
relays

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### General technical data

Type	E200DU	E320DU	E500DU	E800DU	E1250DU
<b>Standards:</b>	IEC/EN 60 947-4-1 / IEC/EN 60 947-5-1				
<b>Approvals and certificates</b>	UL, CSA				
<b>Rated insulation voltage U<sub>i</sub></b>	<b>V</b>	600			
<b>Rated operating voltage U<sub>e</sub></b>	<b>V</b>	600			
<b>Impulse withstand voltage U<sub>imp</sub></b>	<b>kV</b>	6			
<b>Permissible ambient temperature</b>					
– Storage	°C	– 25 to + 70			
– Operation	°C	– 25 to + 70			
<b>Climatic resistance according to</b>	IEC 68-2-1, IEC 68-2-2 IEC 68-2-14, IEC 68-2-30		IEC 68-2-1, IEC 68-2-2, IEC 68-2-30		
<b>Mounting position</b>	any				
<b>Resistance to shock</b>	Shock duration ms multiple of g		30 5		
<b>Resistance to vibrations to EN 61373</b>	category 1 class B				
<b>Mounting</b>	– by screws: 4 x M5	– by screws: 4 x M5	– by screws: 4 x M5 with DT ... mounting kit	– by screws: 4 x M6 with DT ... mounting kit	– by screws: 4 x M6 with DT ... mounting kit
	direct mounting to contactor				
<b>Connection terminals and attachment type</b>					
<b>Main contactors</b> (load side)					
• Screw terminals	M8	M10	M10 (rail order separately)	M12 (rail order separately)	M12
– with busbar or cable lugs					
<b>Connection terminals and attachment type</b>					
<b>Auxiliary contacts</b>					
• Screw terminal			M3,5		
– with self-disengaging clamping piece					
– tightening torque	<b>Nm</b>		1,0		
• Connection cross-sections					
– single-core or stranded	<b>mm<sup>2</sup></b>				
– flexible with wire end ferrule	<b>mm<sup>2</sup></b>		2 x 0,75 ... 4 2 x 0,75 ... 2,5		
<b>Protection degree to IEC/EN 60 947-1</b>	All terminals are safe from finger-touch and safe from touch by the back of the hand to EN 50274				IP 00

### Technical data of the conducting paths

Type	E200DU	E320DU	E500DU	E800DU	E1250DU
<b>Number of conducting paths</b>	3				
<b>Setting ranges</b>	<b>A ... A</b>	60 ... 200	100 ... 320	150 ... 500	250 ... 800 375 ... 1250
<b>Tripping classes to IEC/EN 60 947-4-1</b>	10, 20, 30 selectable				
<b>Frequency range</b>	<b>Hz</b>	50 and 60 (only for a.c. operating 3 phase)			
<b>Switching frequency</b> without early tripping		80 ops./h with 40% if the making current does not exceed 6 x in and starting time does not exceed 1s.			

### Load rating of auxiliary contacts

Type	E200DU, E320DU, E500DU, E800DU, E1250DU			
Contact	NC (95-96)		NO (97-98)	
<b>Rated operating voltage U<sub>e</sub></b>	<b>V</b>	600		600
<b>Rated thermal continuous current</b>	<b>A</b>	6		6
<b>Rated operating current I<sub>e</sub></b>				
at AC-15 230 V	<b>A</b>	3		3
at AC-15 400 V	<b>A</b>	1,1		1,1
at AC-15 500 V	<b>A</b>	0,7		0,7
at DC-13 24 V	<b>A</b>	1,5		1,5
at DC-13 60 V	<b>A</b>	0,5		0,5
at DC-13 110 V	<b>A</b>	0,4		0,4
at DC-13 220 V	<b>A</b>	0,2		0,2
<b>Short-circuit protection fuse</b>	<b>gG</b>	6		6
<b>STOTZ safety circuit-breaker: S271, S281</b>		(1)		(1)