Technical data
TA25DU – TA80DU

Types		TA25DU	TA42DU	TA75DU	TA80DU
Standards: (international, European)		IEC 947-4-1, EN 60947-4-1			
Rated insulation voltage U_i according to IEC 947-4-1	V	690			
Rated impulse withstand voltage U_{imp} according to IEC 947-4-1	kV	6			
Permissible ambient temperature – for storage	°C	–40 to +70			
– for operation	°C	–25 to +55 with temperature compensation (maximum values: see page 2.9)			
Climatic withstand DIN 50017		Humidity in alternate climate KFW, 30 cycles			
Mounting positions		On a support at an angle of ±30° in relation to the vertical plane (standard position). Other positions possible except mounting on a horizontal plane (in this case the tripping mechanism would be located above the bimetals).			
Shock withstand at nominal I_e	shock duration ms	15			
Critical direction of shocks A1, A2	multiples of g	12			
Resistance to vibrations (±1 mm, 50 Hz)	multiples of g	8			
Mounting – on contactor		Latching below the contactor, screw fixing on main terminals			
– separate with DB - kit		Using screws: 2 x M4 or 35 mm EN 50022			
Terminals and cross-sectional areas for main conductors (motor side)		TA25DU setting ranges: from 0.1-0.16A to 18-25A	24-32 A		
• screw terminal		M4	–		
– with cable clamp		–	M5	M6	M6
– via tunnel connector		–	–	–	–
– flat type for lug or bar					
• conductor cross-sectional area					
– rigid solid or rigid stranded	mm^2	2 x 1.5 - 6	1 x 10	1 x 2.5 - 35 or 2 x 2.5 x 16	
– flexible with cable end	mm^2	2 x 1.5 - 4	2 x 0.75- 6	1 x 2.5 - 25 or 2 x 2.5 x 10	
– recommended bars	mm	–	–	– –	–
Terminals and cross-sectional area for auxiliary conductors					
• screw terminal (screw size)					
– with cable clamp		M 3.5			
• conductor cross-sectional area					
– rigid solid or rigid stranded	2 x mm^2	0.75 - 4			
– flexible with cable end	2 x mm^2	0.75 - 2.5			
Degree of protection		All the terminals are protected against direct contact according to VDE 0106/Part. 100. (without additional terminal shrouds)			All the terminals are protected against direct
					direct contact according to VDE0106/part 100 (with additional terminal shrouds for the main terminals

Pole Technical Characteristics

Types		TA25 DU	TA42 DU	TA75 DU	TA80 DU	TA10 DU	TA200 DU	TA450 DU
Number of poles		3						
Setting ranges		see page 2.6						
Tripping class according to IEC 947-4-1, EN 60947-1		10 A						
Rated operational frequencies	Hz	0 - 400						50/60
Max. switching frequency without untimely tripping		Up to 15 starts/h or 60 starts/h with 40 % on-load factor when neither the starting current of 6 x I_n nor the starting time 1 s are exceeded.						
Resistance per phase in mΩ and heat dissipation in W		see page 2.13						