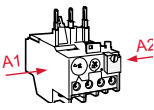


Technical data TA25DU – TA80DU

2

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 – for operation	°C °C	–40 to +70 –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 $\pm 30^\circ$ 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 Critical direction of shocks A1, A2	shock duration ms multiples of g	15 12																	
Resistance to vibrations (± 1 mm, 50 Hz)	multiples of g	8																	
Mounting – on contactor – separate with DB - kit	Latching below the contactor, screw fixing on main terminals Using screws: 2 x M4 or 35 mm EN 50022																		
Terminals and cross-sectional areas for main conductors (motor side) • screw terminal – with cable clamp – via tunnel connector – flat type for lug or bar • conductor cross-sectional area – rigid solid or rigid stranded – flexible with cable end – recommended bars		TA25DU setting ranges: from 0.1-0.16A 24-32 A to 18-25A <table border="1" style="width: 100%; text-align: center;"> <tr> <td>M4</td> <td>–</td> <td>M6</td> <td>M6</td> <td>M6</td> </tr> <tr> <td>–</td> <td>M5</td> <td>–</td> <td>–</td> <td>–</td> </tr> <tr> <td>–</td> <td>–</td> <td>–</td> <td>–</td> <td>–</td> </tr> </table>			M4	–	M6	M6	M6	–	M5	–	–	–	–	–	–	–	–
M4	–	M6	M6	M6															
–	M5	–	–	–															
–	–	–	–	–															
	mm ² mm ² mm	2 x 1.5 - 6 2 x 1.5 - 4 –	1 x 10 2 x 0.75 - 6 –	1 x 2.5 - 35 or 2 x 2.5 x 16 1 x 2.5 - 25 or 2 x 2.5 x 10 –															
Terminals and cross-sectional area for auxiliary conductors • screw terminal (screw size) – with cable clamp • conductor cross-sectional area – rigid solid or rigid stranded – flexible with cable end	 2 x mm ² 2 x mm ²	 M 3.5 0.75 - 4 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						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 $6 \times I_n$ nor the starting time 1 s are exceeded.						
Resistance per phase in mΩ and heat dissipation in W	see page 2.13						