




3TK Mechanical Safety Safety Relays

3TK28, with relay enabling circuits

Selection and ordering data

	Enabling contacts	Signal. contacts	Achievable category	Rated control supply voltage U_S	Width mm	With screw terminals			With spring loaded terminals			
						Order No.	List Price \$	Weight approx. kg	Order No.	List Price \$	Weight approx. kg	
												Preferred type
Basic units for EMERGENCY-STOP and protective doors³⁾												
 3TK28 21 to 3TK28 24, screw terminals	Autostart											
	3 NO	1 NC	B, 1, 2 ³⁾	AC/DC 24 V	22.5	3TK28 21-1CB30	0.276	3TK28 21-2CB30	0.246			
	2 NO	–	B, 1, 2, 3, 4	AC/DC 24 V	22.5	3TK28 22-1CB30	0.271	3TK28 22-2CB30	0.250			
	Monitored start											
	2 NO	–	B, 1, 2, 3, 4	AC/DC 24 V	22.5	3TK28 23-1CB30	0.271	3TK28 23-2CB30	0.247			
	Autostart											
	2 NO	–	B, 1, 2 ³⁾	AC/DC 24 V	22.5	3TK28 24-1CB30	0.254	3TK28 24-2CB30	0.230			
	2 NO	–	B, 1, 2 ³⁾	DC 24 V	22.5	3TK28 24-1BB40	0.249	3TK28 24-2BB40	0.228			
	2 NO	–	B, 1, 2 ³⁾	AC 115 V	22.5	3TK28 24-1AJ20	0.294	3TK28 24-2AJ20	0.265			
	2 NO	–	B, 1, 2 ³⁾	AC 230 V	22.5	3TK28 24-1AL20	0.288	3TK28 24-2AL20	0.270			
 3TK28 25, screw terminals	Autostart/monitored start											
	3 NO	2 NC	B, 1, 2, 3, 4	DC 24 V	45	3TK28 25-1BB40	0.423	3TK28 25-2BB40	0.374			
	3 NO	2 NC	B, 1, 2, 3, 4	AC 24 V	45	3TK28 25-1AB20	0.421	3TK28 25-2AB20	0.375			
	3 NO	2 NC	B, 1, 2, 3, 4	AC 115 V	45	3TK28 25-1AJ20	0.519	3TK28 25-2AJ20	0.472			
	3 NO	2 NC	B, 1, 2, 3, 4	AC 230 V	45	3TK28 25-1AL20	0.516	3TK28 25-2AL20	0.475			
	Selectable parameters											
				DC 24 V	45	3TK28 26-1BB40	0.370	3TK28 26-2BB40	0.370			
				AC/DC 24 to 240 V	45	3TK28 26-1CW30	0.400	3TK28 26-2CW30	0.400			
				DC 24 V	45	3TK28 26-1BB41	0.370	3TK28 26-2BB41	0.370			
				AC/DC 24 to 240 V	45	3TK28 26-1CW31	0.400	3TK28 26-2CW31	0.400			
		off-delay, t_V 0.05 - 3 s										
			DC 24 V	45	3TK28 26-1BB42	0.370	3TK28 26-2BB42	0.370				
			AC/DC 24 to 240 V	45	3TK28 26-1CW32	0.400	3TK28 26-2CW32	0.400				
		off-delay, t_V 0.5 - 30 s										
			DC 24 V	45	3TK28 26-1BB44	0.370	3TK28 26-2BB44	0.370				
			AC/DC 24 to 240 V	45	3TK28 26-1CW34	0.400	3TK28 26-2CW34	0.400				
		off-delay, t_V 5 - 300 s										
 3TK28 27 and 3TK28 28, screw terminals	Monitored start											
	2 NO + 2 NO	1 NC	B, 1, 2, 3, 4 ¹⁾	DC 24 V	45	3TK28 27-1BB40	0.497	3TK28 27-2BB40	0.455			
	2 NO + 2 NO	1 NC	B, 1, 2, 3, 4 ¹⁾	AC 24 V	45	3TK28 27-1AB20	0.496	3TK28 27-2AB20	0.454			
	2 NO + 2 NO	1 NC	B, 1, 2, 3, 4 ¹⁾	AC 115 V	45	3TK28 27-1AJ20	0.650	3TK28 27-2AJ20	0.606			
	2 NO + 2 NO	1 NC	B, 1, 2, 3, 4 ¹⁾	AC 230 V	45	3TK28 27-1AL20	0.650	3TK28 27-2AL20	0.604			
			off-delay, t_V 0.5 - 30 s									
	2 NO + 2 NO	1 NC	B, 1, 2, 3, 4 ¹⁾	DC 24 V	45	3TK28 27-1BB41	0.495	3TK28 27-2BB41	0.454			
	2 NO + 2 NO	1 NC	B, 1, 2, 3, 4 ¹⁾	AC 24 V	45	3TK28 27-1AB21	0.499	3TK28 27-2AB21	0.454			
	2 NO + 2 NO	1 NC	B, 1, 2, 3, 4 ¹⁾	AC 115 V	45	3TK28 27-1AJ21	0.650	3TK28 27-2AJ21	0.240			
	2 NO + 2 NO	1 NC	B, 1, 2, 3, 4 ¹⁾	AC 230 V	45	3TK28 27-1AL21	0.650	3TK28 27-2AL21	0.605			
			off-delay, t_V 0.05 - 3 s									
	Autostart											
	2 NO + 2 NO	1 NC	B, 1, 2, 3, 4 ¹⁾	DC 24 V	45	3TK28 28-1BB40	0.496	3TK28 28-2BB40	0.457			
	2 NO + 2 NO	1 NC	B, 1, 2, 3, 4 ¹⁾	AC 24 V	45	3TK28 28-1AB20	0.500	3TK28 28-2AB20	0.468			
2 NO + 2 NO	1 NC	B, 1, 2, 3, 4 ¹⁾	AC 115 V	45	3TK28 28-1AJ20	0.650	3TK28 28-2AJ20	0.609				
2 NO + 2 NO	1 NC	B, 1, 2, 3, 4 ¹⁾	AC 230 V	45	3TK28 28-1AL20	0.650	3TK28 28-2AL20	0.612				
		off-delay, t_V 0.5 - 30 s										
2 NO + 2 NO	1 NC	B, 1, 2, 3, 4 ¹⁾	DC 24 V	45	3TK28 28-1BB41	0.499	3TK28 28-2BB41	0.450				
2 NO + 2 NO	1 NC	B, 1, 2, 3, 4 ¹⁾	AC 24 V	45	3TK28 28-1AB21	0.501	3TK28 28-2AB21	0.545				
2 NO + 2 NO	1 NC	B, 1, 2, 3, 4 ¹⁾	AC 115 V	45	3TK28 28-1AJ21	0.657	3TK28 28-2AJ21	0.240				
2 NO + 2 NO	1 NC	B, 1, 2, 3, 4 ¹⁾	AC 230 V	45	3TK28 28-1AL21	0.650	3TK28 28-2AL21	0.608				
		off-delay, t_V 0.05 - 3 s										

Rated control supply voltages U_S DC 24 V and AC 50/60 Hz, 24, 115, 230 V

1) Only applicable to the instantaneous enabling contacts.

2) For dimension drawings see page 13/128.

3) These devices support attainment of category 3 in accordance with DIN EN 954-1. Depending on the hazardous assessment, additional measures in the sensor circuit (e.g. protected routing) may be required.