

Solenoid Locking Safety Switches



SLK Series

Product selection

Article number	Designation	Locking action	Contacts		Supply voltage	Additional function
			Actuator	Interlock		
601.8119.045	SLK-F-UC-55-R1-A0-L0-0	Normally Locked*	1NC / 1NO	1NC / 1NO	24 Volt AC / DC	Auxiliary release
601.8119.066	SLK-F-UC-55-R1-A0-L1-0	Normally Locked*	1NC / 1NO	1NC / 1NO	24 Volt AC / DC	Auxiliary release, LED
601.8169.054	SLK-F-UC-22-R1-A0-L0-0	Normally Locked*	2 NC	2 NC	24 Volt AC / DC	Auxiliary release
601.8169.050	SLK-F-UC-25-R1-A0-L0-0	Normally Locked*	2 NC	1NC / 1NO	24 Volt AC / DC	Auxiliary release
601.8169.068	SLK-F-UC-25-R1-A0-L1-0	Normally Locked*	2 NC	1NC / 1NO	24 Volt AC / DC	Auxiliary release, LED
601.8119.061	SLK-F-UC-55-R2-A0-L0-0	Normally Locked*	1NC / 1NO	1NC / 1NO	24 Volt AC / DC	Emergency release
601.8169.055	SLK-F-NC-22-R1-A0-L0-0	Normally Locked*	2 NC	2 NC	110 / 230 AC	Auxiliary release
601.8119.046	SLK-F-NC-55-R1-A0-L0-0	Normally Locked*	1NC / 1NO	1NC / 1NO	110 / 230 AC	Auxiliary release
601.8119.067	SLK-F-NC-55-R1-A0-L1-0	Normally Locked*	1NC / 1NO	1NC / 1NO	110 / 230 AC	Auxiliary release, LED
601.8169.051	SLK-F-NC-25-R1-A0-L0-0	Normally Locked*	2 NC	1NC / 1NO	110 / 230 AC	Auxiliary release
601.8169.069	SLK-F-NC-25-R1-A0-L1-0	Normally Locked*	2 NC	1NC / 1NO	110 / 230 AC	Auxiliary release, LED
601.8119.047	SLK-M-UC-55-R0-A0-L0-0	Normally Unlocked**	1NC / 1NO	1NC / 1NO	24 Volt AC / DC	
601.8169.052	SLK-M-UC-25-R0-A0-L0-0	Normally Unlocked**	2 NC	1NC / 1NO	24 Volt AC / DC	
601.8169.056	SLK-M-UC-22-R0-A0-L0-0	Normally Unlocked**	2 NC	2 NC	24 Volt AC / DC	
601.8119.048	SLK-M-NC-55-R0-A0-L0-0	Normally Unlocked**	1NC / 1NO	1NC / 1NO	110 / 230 AC	
601.8169.053	SLK-M-NC-25-R0-A0-L0-0	Normally Unlocked**	2 NC	1NC / 1NO	110 / 230 AC	
601.8169.057	SLK-M-NC-22-R0-A0-L0-0	Normally Unlocked**	2 NC	2 NC	110 / 230 AC	

* Energize Solenoid to Unlock ** Energize Solenoid to Lock

Technical data	Spring 24 Volt AC / DC	Spring 110 / 230 AC	Magnet 24 Volt AC / DC	Magnet 110 / 230 AC
Electrical data				
Rated insulation voltage U_i	250 V	250 V	250 V	250 V
Utilization category	AC-15, U_e / I_e 230 V / 2.5 A	AC-15, U_e / I_e 230 V / 2.5 A	AC-15, U_e / I_e 230 V / 2.5 A	AC-15, U_e / I_e 230 V / 2.5 A
Conventional thermal current I_{the}	5 A	5 A	5 A	5 A
Short-circuit protection	4 A gL	4 A gL	4 A gL	4 A gL
Protection class	II, Insulated	II, Insulated	II, Insulated	II, Insulated
Electromagnet				
Duty factor	100 % ED (an E1; E2)	100 % ED (an E1; E2)	100 % ED (an E1; E2)	100 % ED (an E1; E2)
Thermal class	F (155 °C)	F (155 °C)	F (155 °C)	F (155 °C)
Switch-on power	12 VA (0.2 s)	65 VA (0.1 s)	12 VA (0.2 s)	12 VA (0.2 s)
Continuous power	4.4 VA	8 VA	4.4 VA	4.4 VA
Mechanical data				
Enclosure	Thermoplastic GV (UL94-V0)	Thermoplastic GV (UL94-V0)	Thermoplastic GV (UL94-V0)	Thermoplastic GV (UL94-V0)
Cover	Thermoplastic GV (UL94-V0)	Thermoplastic GV (UL94-V0)	Thermoplastic GV (UL94-V0)	Thermoplastic GV (UL94-V0)
Actuator	Thermoplastic GV / Zn-GD	Thermoplastic GV / Zn-GD	Thermoplastic GV / Zn-GD	Thermoplastic GV / Zn-GD
Ambient temperature	-25 °C to +70 °C	-25 °C to +70 °C	-25 °C to +70 °C	-25 °C to +70 °C
Switching function	2 NC contacts, 2 NO contacts	2 NC contacts, 2 NO contacts	4 NC contacts	2 NC contacts, 2 NO contacts
Switching principle	4 Slow-action contacts	4 Slow-action contacts	4 Slow-action contacts	4 Slow-action contacts
Mechanical service life	1 x 10 ⁶ switching cycles (max. 600 switching cycles / h)	1 x 10 ⁶ switching cycles (max. 600 switching cycles / h)	1 x 10 ⁶ switching cycles (max. 600 switching cycles / h)	1 x 10 ⁶ switching cycles (max. 600 switching cycles / h)
B10d	2 mill.	2 mill.	2 mill.	2 mill.
Minimum actuating radius R_{min}	See data sheet, actuator	See data sheet, actuator	See data sheet, actuator	See data sheet, actuator
Approach speed V_{max}	0.5 m/s	0.5 m/s	0.5 m/s	0.5 m/s
Mounting	4 x M5	4 x M5	4 x M5	4 x M5
Cross sections	0.5 - 1.5 mm ²	0.5 - 1.5 mm ²	0.5 - 1.5 mm ²	0.5 - 1.5 mm ²
Type of connection	Cage clamp terminal	Cage clamp terminal	Cage clamp terminal	Cage clamp terminal
Cable entry	3 x M20 x 1.5	3 x M20 x 1.5	3 x M20 x 1.5	3 x M20 x 1.5
Weight	≈ 0.34 kg	≈ 0.30 kg	≈ 0.30 kg	≈ 0.35 kg
Protection class	IP67 conforming to IEC/EN 60529	IP67 conforming to IEC/EN 60529	IP67 conforming to IEC/EN 60529	IP67 conforming to IEC/EN 60529
Installation position	Any	Any	Any	Any
Locking principle	Spring force	Spring force	Magnetic force	Magnetic force
Latching force F_{Zh}	≤ 1500 N to GS-ET-19	≤ 1500 N to GS-ET-19	≤ 1500 N to GS-ET-19	≤ 1500 N to GS-ET-19

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