

UNDervOLTAGE RELEASES



- Accessories to: LSN, LST, LSE, ASN, AST
- For tripping the miniature circuit breaker or tumbler power switch at voltage drop between 70 % and 35 % U_e
- For tripping the miniature circuit breaker or tumbler power switch on pressing the switch-off push-button
- For elimination of miniature circuit breakers or tumbler power switch closing at voltage lower than 35 % on the undervoltage release (the closing is possible at $U \geq 85 \% U_e$)
- It is frequently used for protection against motor restart after the mains failure
- Undervoltage releases N101-LSN contain in addition an auxiliary switch with make and break-make contact for signalling the position of main contacts of the miniature circuit breaker or tumbler power switch

Undervoltage releases

U_n AC [V]	Without contacts		Contact sequence - 101 ¹⁾		Weight [kg]	Packing [pcs]
	Type	Product code	Type	Product code		
24	N-LSN-A024	08475	N101-LSN-A024	08485	0.12	1
48	N-LSN-A048	08476	N101-LSN-A048	09053	0.12	1
110	N-LSN-A110	08477	N101-LSN-A110	09055	0.12	1
230	N-LSN-A230	08478	N101-LSN-A230	08486	0.12	1
400	N-LSN-A400	08479	N101-LSN-A400	08927	0.12	1

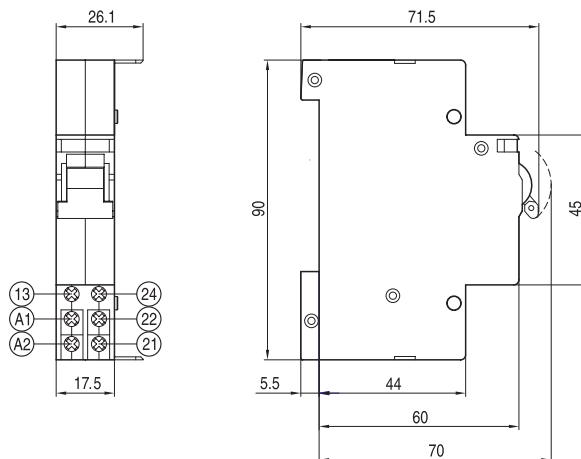
Specification

Type	N...-LSN		
Standards	EN 60 947-1		
Coil			
Rated operating voltage	U_e 24, 48, 110, 230, 400 V a.c.		
Rated frequency	f_n 40 ÷ 60 Hz		
Consumption	2.5 W		
Max. starting input power	90 VA		
Break time	25 ms		
Contact			
Sequence ¹⁾	0, 101		
Rated operating voltage/current	AC-1	U_e/I_e	230 V / 4 A or 400 V / 2 A
	DC-1	U_e/I_e	220 V / 0.5 A
	AC-15	U_e/I_e	230 V / 2 A
Endurance	10 000 operating cycles		
Other data			
Mounting	on the left side		
Connection	0.75 ÷ 2.5 mm ²		
Degree of protection	IP20		
Operating position	vertical		
Seismic immunity (8÷50 Hz)	3 g		

¹⁾ Each digit indicates successively the number of make, break and break-make contacts

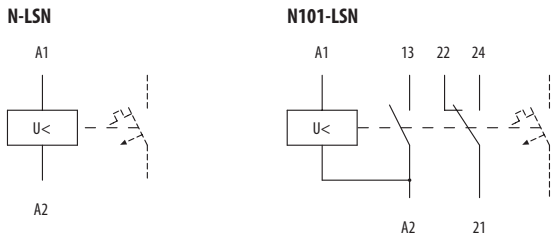
Dimensions

N...-LSN



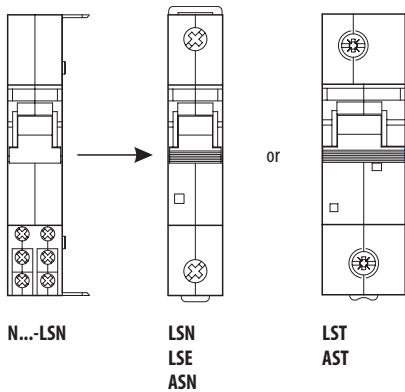
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Diagram



Assembly and installation of undervoltage releases

Assembly



Installation of an undervoltage release on a miniature circuit breaker or tumbler power switch (hereinafter only the device):

1. Switch off both the undervoltage release and the device.
2. Insert one shaft into the control lever of the undervoltage release and the second shaft (for LST, AST the shaft is plastic) into the hole in the switching system of the undervoltage release.
3. Slide the device from the right onto the undervoltage release in such a way that one shaft interconnects control levers and the other interconnects the switching systems.
4. Press the device to the undervoltage release and click the side fixing latches of the undervoltage release into the device recess.
5. Check correct function by switching

