

Latching relays

Description

For the control of lighting circuits in private buildings, small industry buildings and administration buildings. Latching relays - operate when impulsed by a signal voltage. The impulse can be provided via a pushbutton or switch. The first pulse operates the relay and latches it into its set (opposite) state, the next operation of the pushbutton returns the relay into its reset (original) state.

The latching relays are built to add on optionally the following auxiliaries :




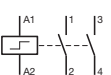

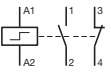



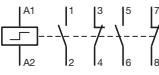


- an auxiliary for centralised ON/OFF control EPN050
- an auxiliary contact for remote signalling EPN051
- an auxiliary for multi levelled centralised control EPN052
- an auxiliary for control by maintained contact EPN053.

Connection capacity

10□ rigid cables
6□ flexible cables

Conform to standard EN669-1 and EN669-2-2

□ For technical details see page 390

Designation	Type	Coil VAC 50/60Hz	Coil VDC	Power Circuit AC1	Width in 17.5mm	Pack qty.	Cat. ref.
 EPN510		230	110	16A-250V	1	1	EPN510
		48	24	16A-250V	1	1	EPN501
		24	12	16A-250V	1	1	EPN513
		12	-	16A-250V	1	1	EPN511
		8	-	16A-250V	1	1	EPN512
 EPN515		230	110	16A-250V	1	1	EPN520
		110	48	16A-250V	1	1	EPN523
		48	24	16A-250V	1	1	EPN526
		24	12	16A-250V	1	1	EPN524
		12	-	16A-250V	1	1	EPN521
8	-	16A-250V	1	1	EPN522		
 EPN525		230	110	16A-250V	1	1	EPN515
		110	48	16A-250V	1	1	EPN516
		48	24	16A-250V	1	1	EPN503
		24	12	16A-250V	1	1	EPN518
12	-	16A-250V	1	1	EPN519		
 EPN540		230	110	16A-400V	2	1	EPN540
		48	24	16A-400V	2	1	EPN548
		24	12	16A-400V	2	1	EPN541
 EPN528		230	110	16A-250V	2	1	EPN525
		24	12	16A-250V	2	1	EPN528
 EPN540		230	110	16A-400V	2	1	EPN546

Auxiliaries for centralised control

The EPN050 allows the centralised control of several light sources which can be turned on or off simultaneously the separate switching by pushing the pushbuttons, which are connected with the latching relay, remains possible.

The EPN052 allows a generic central control of individual central on/off EPN050

Auxiliary contact

A remote signalling can be realised with the auxiliary contact EPN051.

Auxiliary for control by maintained contact

When control devices with permanent impulse are externally driven, e.g. time switches or limit switches, an impulse control directly to the latching relay's coil is possible with the auxiliary contact EP 053.









Connection latching relay + auxiliary

Several auxiliaries can be combined with the latching relay.

Connection capacity

- 10 □ rigid cables
- 6 □ flexible cables

□ For technical details see page 392

	Designation	Voltage supply	Width in 17.5mm	Pack qty.	Cat. ref.
	<p>Auxiliary for centralised control</p> 	24 to 230V AC	1/2	1	EPN050
	<p>Auxiliary contact</p> 	2A - 250 V AC	1/2	1	EPN051
	<p>Auxiliary for multi levelled centralised control</p> 	24 to 230V AC	1/2	1	EPN052
	<p>Auxiliary for control by maintained contact</p> 	24 to 230V AC	1/2	1	EPN053

Relays

Description

To provide command of low power circuits max 16A; associated with pushbuttons switches, time switches etc to provide for remote control applications.

For the command of high power circuits (25, 40, 63Amps) use contactors as shown on page 357.

The relays will accept an auxiliary contact for remote signalling applications.(EP071) For the command of VLV circuits use interface relays EN145 and EN146.

For technical details see page 393



ER120



ER138

Designation	Type	Coil	Power Circuit AC1	Width in 17.5mm	Pack qty.	Cat. ref.
Relays		230V 50Hz	16A-250V	1	12	ER120
		24V 50Hz	16A-250V	1	12	ER123
		12V 50Hz	16A-250V	1	12	ER124
Relays		230V 50Hz	16A-250V	2	1	ER135
		24V 50Hz	16A-250V	2	1	ER138
		12V 50Hz	16A-250V	1	1	ER139
Auxiliary contact			2A-250V	1/2	1	EP071

Interface relays

Description

To interface between low voltage and very low voltage circuits to ensure galvanic isolation between LV and VLV to 4kV.

Application

Interface between fire alarm, burglar alarm and other VLV systems and main distribution circuits.

Connection capacity

6 rigid cables
4 flexible cables

For technical details see page 394

Designation	Characteristics	Width in 17.5mm	Pack qty.	Cat. ref.
Interface relays VLV/LV 1 way	coil voltage : 10 to 26V AC/DC output : 1 changeover contact max. 5A 230V~ - min. 10mA - 12V DC	1	1	EN145
VLV/LV 1 way	coil voltage : 230V~ 50Hz output : 1 changeover contact max. 5A 230V~ min. 10mA - 12V DC	1	1	EN146



EN145

Description
Contactors
 For the remote switching and control of power circuits (25A-63A AC1)

Override contactors
 allows : - permanent ON
 - permanent OFF

Technical data
 The choice of contactor depends upon a number of parameters, e.g.
 - the nature of the supply.

- the power it is switching.
 - the characteristics of the load.
 - the control voltage required.
 - number of operations
 All contactors ratings are for AC1 loads only – if the load differs from AC1 the contactor may need de-rating

The use of LZ 060 (heat dissipation inserts) between all contactors installed or between contactors and adjacent devices is recommended.

Options
 Contact choice
 - normally open (NO)
 - normally closed (NC)
 LZ 060 heat dissipation inserts.

Auxiliary
 25A contactors will accept auxiliary, EP 071 contact.

For technical details see pages 393-395



ES230



ES320



ES463

Designation	Type	Coil AC 50/60Hz	Power Circuit 50/60Hz	Width in 17.5mm	Pack qty.	Standard cat. ref.	Override cat. ref.	
Contactors	1NO	230V	25A-250V	1	1	ES110	ES110A	
	1NO+1NC	230V	25A-250V	1	1	ES210		
		110V	25A-250V	1	1	ES216		
		24V	25A-250V	1	1	ES239		
	2NO	230V	25A-250V	1	12	ES220	ES220A	
			40A-400V	3	1	ES240		
			63A-400V	3	1	ES263		
		110V	25A-250V	1	1	ES226		
			24V	25A-250V	1	1	ES224	ES224A
				40A-400V	3	1	ES252	
	63A-400V	3	1	ES262				
2NC	230V	25A-250V	1	12	ES230	ES230A		
	110V	25A-250V	1	1	ES236			
3NO	230V	25A-400V	2	6	ES320	ES320A		
	230V	40A-400V	3	1	ES340			
3NO+1NC	230V	25A-400V	2	1	ES444			
		40A-400V	3	1	ES345			
		63A-400V	3	1	ES365			
4NO	230V	25A-400V	2	6	ES420	ES420A		
		40A-400V	3	1	ES440			
		63A-400V	3	1	ES463			
	110V	25A-400V	2	1	ES426			
		40A-400V	3	1	ES446			
		63A-400V	3	1	ES466			
	24V	25A-400V	2	1	ES424	ES424A		
		40A-400V	3	1	ES442			
	63A-400V	3	1	ES462				
4NC	230V	25A-400V	2	6	ES430	ES430A		
		40A-400V	3	1	ES480			
		63A-400V	3	1	ES490			
	110V	25A-400V	2	1	ES426			
		40A-400V	3	1	ES436			
		63A-400V	3	1	ES496			
	24V	25A-400V	2	1	ES432			
		63A-400V	3	1	ES492			
2NO+2NC	230V	25A-250V	2	1	ES450			
		63A-250V	3	1	ES470			
	24V	25A-250V	2	1	ES242			
Auxiliary		2A-250V	1/2	1	EP071			
Heat dissipation insert				1/2	10	LZ060		

Low Noise Contactors

Description

For the remote switching and control of power circuits (20A-63A AC1)

Technical data

The choice of contactor depends upon a number of parameters, e.g.

- The nature of the supply.
- The power it is switching.
- The characteristics of the load.
- The control voltage required.
- Number of operations

All contactors ratings are for AC1 loads only – if the load differs from AC1 the contactor may need de-rating.

The use of LZ060 (heat dissipation inserts) between all contactors installed or between contactors and adjacent devices is recommended.

Options

- Contact choice
- Normally open (NO)
 - Normally closed (NC)



ESN420B



ESN440B

<i>Designation</i>	<i>Type</i>	<i>Coil AC voltage</i>	<i>Power circuit AC1</i>	<i>Width in 17.5mm</i>	<i>Pack qty.</i>	<i>cat. ref</i>
	2 NO	230V 50 Hz	25A - 250V	1	12	ESN220B
			40A - 400V~	3	4	ESN240B
			63A - 400V~	3	4	ESN263B
	3 NO	230V 50 Hz	25A - 400V	2	6	ESN320B
			40A - 400V~	3	4	ESN340B
	3 NO + 1 NC	230V 50 Hz	25A - 250V	2	6	ESN444B
	4 NO	230V 50 Hz	25A - 400V	2	6	ESN420B
			40A - 400V~	3	4	ESN440B
			63A - 400V~	3	4	ESN463B
	4 NC	230V 50 Hz	25A - 400V	2	6	ESN430B
Auxiliary Contact	1NO + 1NC		6 A - 250V	1/2	1	ESN071B
Cover for 2 module contactors				2	10	ESN002B
Cover for 3 module contactors				3	10	ESN003B