

# NL..RT Contactor Relays



d.c. operated



## 4-pole, 1-stack

d.c. operated

Type	NL 22 ERT	NL 31 ERT	NL 40 ERT
Main contacts	 2 2	 3 1	 4 0

## 4-pole, 1-stack

d.c. operated - Large coil voltage range

Type	TNL 22 ERT	TNL 31 ERT	TNL 40 ERT
Main contacts	 2 2	 3 1	 4 0
IEC Rated operational current			
AC-15	240 V	A	4
	400 V	A	3
	690 V	A	2
DC-13	24 V	A / W	6 / 144
	250 V	A / W	0.3 / 75
UL/CSA Pilot duty	A 600, Q 300		



## 8-pole, 2-stack

d.c. operated

Type	TNL 44 ERT	TNL 62 ERT	TNL 80 ERT
Main contacts	 4 4	 6 2	 8 0
IEC Rated operational current			
AC-15	240 V	A	4
	400 V	A	3
	690 V	A	2
DC-13	24 V	A / W	6 / 144
	250 V	A / W	0.3 / 75
UL/CSA Pilot duty	A 600, Q 300		

## Main accessories

Auxiliary contacts	front mounting	CA 5-..NRT 4-pole
Surge suppressors		RT 5-.. (Transil Diode) / RV 5 (Varistor)



# NL..RT, TNL..RT Contactor Relays



d.c. Operated

## Application

**NL..RT, TNL..RT** contactor relays are the ring tongue version of the NL range and are used for switching control and auxiliary circuits. They have a low power consumption and are specially designed for strong vibrations and high reliability environments.

Their main features are:

- High connection reliability with no need to retighten the terminals on site
- Vibration proof
- **TNL..RT** contactor relays comply with the main railway requirements (see page 33).

## Description

The **NL..RT** contactor relays are of the block type design.

The **TNL..RT** contactor relays are of the block type design with a large coil voltage range.

- Poles:
  - 1-stack contactor relays: 4-pole,
  - 2-stack contactor relays: 8-pole, with mechanically linked contact elements.

The width of 8-pole devices is identical to that of 4-pole devices; only the depth increased.
- Control circuit: d.c. operated with solid core magnet circuit and low consumption coil. The coil must be energised from a d.c. supply and the polarity (+ and -) must be respected.
- Accessories: a wide range of accessories are available.

### Contactor relays designation explanation

1) **NL 22 ERT**

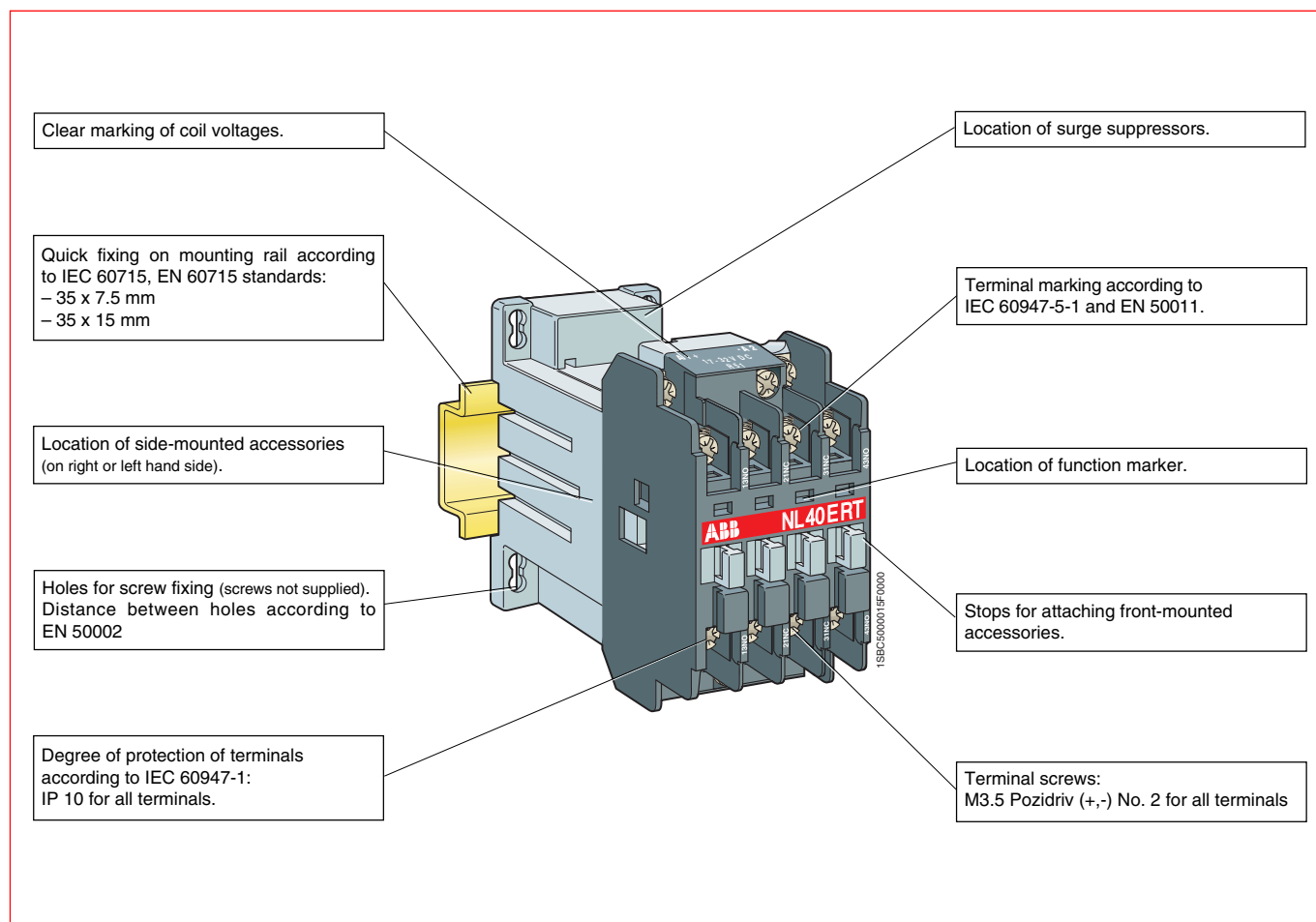
RT = Ring Tongue Terminals

2) **TNL 80 ERT**

T = Large coil voltage range

Blue = Standard contactor relays features

Black = Different variations according to the application

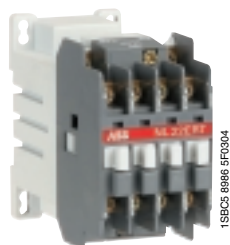




# NL..RT, TNL..RT Contactor Relays



d.c. Operated



NL 22 ERT



TNL 40 ERT



TNL 80 ERT

## Ordering Details

Number of contacts		Type	Order code	Weight kg	Pack <sup>ing</sup> 1 piece
1 <sup>st</sup> stack	2 <sup>nd</sup> stack				
		state coil voltage <input type="text"/> (see table below)	state coil voltage code <input type="text"/> <input type="text"/> (see table below)		

### 4-pole, 1-stack

2 2	— —	NL 22 ERT <input type="text"/>	1SBH 143 010 R <input type="text"/> <input type="text"/> 22	0.520
3 1	— —	NL 31 ERT <input type="text"/>	1SBH 143 010 R <input type="text"/> <input type="text"/> 31	0.520
4 —	— —	NL 40 ERT <input type="text"/>	1SBH 143 010 R <input type="text"/> <input type="text"/> 40	0.520

### 4-pole, 1-stack with a large coil voltage range

2 2	— —	TNL 22 ERT <input type="text"/>	1SBH 143 060 R <input type="text"/> <input type="text"/> 22	0.520
3 1	— —	TNL 31 ERT <input type="text"/>	1SBH 143 060 R <input type="text"/> <input type="text"/> 31	0.520
4 —	— —	TNL 40 ERT <input type="text"/>	1SBH 143 060 R <input type="text"/> <input type="text"/> 40	0.520

### 8-pole, 2-stack with a large coil voltage range

4 —	— 4	TNL 44 ERT <input type="text"/>	1SBH 143 060 R <input type="text"/> <input type="text"/> 44	0.580
4 —	2 2	TNL 62 ERT <input type="text"/>	1SBH 143 060 R <input type="text"/> <input type="text"/> 62	0.580
4 —	4 —	TNL 80 ERT <input type="text"/>	1SBH 143 060 R <input type="text"/> <input type="text"/> 80	0.580

### Coil voltages and codes NL..RT

Voltage V d.c.	Code
<input type="text"/>	<input type="text"/> <input type="text"/>
12	8 0
24	8 1
42	8 2
48	8 3
60	8 4
75	8 5
110	8 6
125	8 7
220	8 8
240	8 9

### Coil voltages and codes TNL..RT

Voltage V d.c.	Code
<input type="text"/>	<input type="text"/> <input type="text"/>
17 ... 32	5 1
25 ... 45	5 2
36 ... 65	5 4
42 ... 78	5 8
50 ... 90	5 5
77 ... 143	6 2
90 ... 150	6 6
152 ... 264	6 8

Voltage tolerances (-15% and +10%) included in the  $U_c$  min. and  $U_c$  max. values for the TNL..RT contactor relays.