

## Type TNL

### 4 Pole & 8 Pole



TNL22E

#### 4 Pole, 1 stack

| Number of contacts |      |           |      |       | Weight   | Catalog number | List price |
|--------------------|------|-----------|------|-------|----------|----------------|------------|
| 1st stack          |      | 2nd stack |      |       |          |                |            |
| N.O.               | N.C. | N.O.      | N.C. |       |          |                |            |
| 2                  | 2    | –         | –    | 0.540 | TNL22E-Δ | \$ 121         |            |
| 3                  | 1    | –         | –    | 0.540 | TNL31E-Δ |                |            |
| 4                  | –    | –         | –    | 0.540 | TNL40E-Δ |                |            |

#### 8 Pole, 2 stack

| Number of contacts |      |           |      | Weight | Catalog number | List price |
|--------------------|------|-----------|------|--------|----------------|------------|
| 1st stack          |      | 2nd stack |      |        |                |            |
| N.O.               | N.C. | N.O.      | N.C. |        |                |            |
| 4                  | –    | –         | 4    | 0.600  | TNL44E-Δ       | \$ 180     |
| 4                  | –    | 2         | 2    | 0.600  | TNL62E-Δ       |            |

Δ - Substitute the Δ for the coil voltage code. See the Type TNL Coil voltage Selection chart beneath the photos.

#### Coil characteristics

No extra tolerances applicable to the  $U_c$  min. ... max. values quoted in the Coil voltage selection table

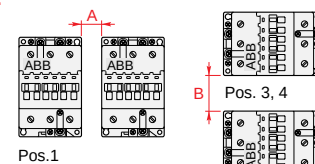
- Coil consumption at  $U_c$  max.  $\varphi = 20^\circ\text{C}$ : 9 W pull-in/holding
- Replacement coils: consult us (standard coils used on NL control relays are not suitable for TNL control relays).

#### Coil voltage selection

| Min. | $U_c$ | Max. | Voltage |
|------|-------|------|---------|
| 17   | –     | 32   | 51      |
| 24   | –     | 45   | 52      |
| 36   | –     | 65   | 54      |
| 42   | –     | 78   | 58      |
| 50   | –     | 90   | 55      |
| 77   | –     | 143  | 62      |
| 90   | –     | 150  | 66      |
| 152  | –     | 264  | 68      |

#### Mounting distance – for coil operating limits $U_c$ min. ... $U_c$ max.

| A<br>mm | B<br>mm | Ambient temp.<br>$^\circ\text{C}$ | Max. switching frequency<br>Operating cycles/h |
|---------|---------|-----------------------------------|------------------------------------------------|
| 2       | 20      | $\leq 20$                         | 1200                                           |
| 5       | 20      | $\leq 55$                         | 1200                                           |



#### Add-on accessories

| Control relays                           | Max. number of auxiliary contact blocks |        |        |        |        |        | Timer TP | Mechanical interlock | Label marker |
|------------------------------------------|-----------------------------------------|--------|--------|--------|--------|--------|----------|----------------------|--------------|
|                                          | CA5-10                                  | CA5-01 | CA5-40 | CA5-31 | CA5-22 | CA5-04 |          |                      |              |
| Pos. 1, 3 or 4<br>TNL 40-E               | 4                                       | 2      | 1      | 1      | 1      | –      | –        | VBC 30               | BA 5-50      |
| Pos. 1, 3 or 4<br>TNL 31-E               | 4                                       | 1      | 1      | 1      | –      | –      | –        | VBC 30               | BA 5-50      |
| Pos. 1, 3 or 4<br>TNL 22-E               | 4                                       | –      | 1      | –      | –      | –      | –        | VBC 30               | BA 5-50      |
| Pos. 1 $\pm 30^\circ$<br>TNL - all types | –                                       | –      | –      | –      | –      | –      | –        | VBC 30               | BA 5-50      |

#### Mounting positions

