

## 2210 Series Circuit Breakers



These thermal magnetic circuit breakers mount on both 32mm and 35 mm DIN rails and provide a toggle mechanism, built-in auxiliary contacts and many other features.

- CSA 250Vac, 65Vdc, 0.1-32A
- VDE and UL approved
- interrupting capacity up to 1000A
- thermal magnetic operation
- 1, 2 and 3 pole versions
- 12.5mm wide per pole
- mounts on both TS32 and TS35 DIN rail

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# 2210 Series Circuit Breakers

## Technical data

|                       |   |
|-----------------------|---|
| Current ratings       | 0.1...20A (resistive & inductive load)  |
| Max. voltage rating   | 3 phase: 415V; AC 250V; DC 65V  |
| Insulation resistance | >100 M $\Omega$ (DC 500V)   |
| Aux. contact rating   | 1A, AC 250V / DC 65V (resistive load)   |
| Typical life          | at rated current: 10,000 operations<br>at 2 x rated current: 5,000 operations |
| Vibration             | 5g (57-500Hz, $\pm 0.38$ mm; 10-57Hz, $\pm 0.62$ mm)                          |
| Humidity              | 240 hours at 95% RH, to IEC 68-2-3, test C                                    |
| Weight                | approx. 60g per pole max  |
| Wire size/torque      | 6mm <sup>2</sup> -10AWG/0.5Nm.  |
| Stripping length      | 12-14mm/ 9-12 (contact)   |

## Switching capacities

|                 |                            |
|-----------------|----------------------------|
| Current ratings | max. rupture capacity (3x) |
| 0.1...5A        | 400A                       |
| 6...16A         | 800A                       |
| 20A             | 1000A at AC, 800A at DC    |

## Approvals

|              |  |
|--------------|--|
| VDE, UL, CSA | voltage/current ratings<br>AC 250V, DC 65V/1...20A |
|--------------|--|

## Auxiliary contact

- one opened contact when CB is in the ON position
- one set of contact per pole with intermediate position
- screw design
- wire size 16AWG (1.5mm<sup>2</sup>)
- tightening torque 0.5Nm.

| Current Ratings | Internal resistance $\Omega$ | Single Pole | Cat.No. | Qty. | Double Pole | Cat.No. | Qty. | 3 Pole | Cat.No. | Qty. |
|-----------------|------------------------------|-------------|---------|------|-------------|---------|------|--------|---------|------|
| 0.1 A           | 92                           |             | 991101  |      |             | 991201  |      |        | 991301  |      |
| 0.2 A           | 26.1                         |             | 991102  |      |             | 991202  |      |        | 991302  |      |
| 0.3 A           | 11.6                         |             | 991103  |      |             | 991203  |      |        | 991303  |      |
| 0.4 A           | 6.6                          |             | 991104  |      |             | 991204  |      |        | 991304  |      |
| 0.5 A           | 4.1                          |             | 991105  |      |             | 991205  |      |        | 991305  |      |
| 0.6 A           | 3                            |             | 991106  |      |             | 991206  |      |        | 991306  |      |
| 0.8 A           | 1.65                         |             | 991108  |      |             | 991208  |      |        | 991308  |      |
| 1.0 A           | 1.10                         |             | 991110  |      |             | 991210  |      |        | 991310  |      |
| 1.5 A           | 0.47                         |             | 991115  |      |             | 991215  |      |        | 991315  |      |
| 2.0 A           | 0.28                         |             | 991120  |      |             | 991220  |      |        | 991320  |      |
| 2.5 A           | 0.18                         |             | 991125  |      |             | 991225  |      |        | 991325  |      |
| 3.0 A           | 0.12                         |             | 991130  |      |             | 991230  |      |        | 991330  |      |
| 4.0 A           | 0.08                         |             | 991140  |      |             | 991240  |      |        | 991340  |      |
| 5.0 A           | 0.06                         |             | 991150  |      |             | 991250  |      |        | 991350  |      |
| 6.0 A           | 0.04                         |             | 991160  |      |             | 991260  |      |        | 991360  |      |
| 8.0 A           | 0.02                         |             | 991180  |      |             | 991280  |      |        | 991380  |      |
| 10.0 A          | 0.01                         |             | 992110  |      |             | 992210  |      |        | 992310  |      |
| 12.0 A          | 0.01                         |             | 992112  |      |             | 992212  |      |        | 992312  |      |
| 15.0 A          | 0.01                         |             | 992115  |      |             | 992215  |      |        | 992315  |      |
| 16.0 A          | <0.01                        |             | 992116  |      |             | 992216  |      |        | 992316  |      |
| 18.0 A          | <0.01                        |             | 992118  |      |             | 992218  |      |        | 992318  |      |
| 20.0 A          | <0.01                        |             | 992120  |      |             | 992220  |      |        | 992320  |      |
| 25.0 A          | <0.01                        |             | 992125  |      |             | 992225  |      |        | 992325  |      |
| 32.0 A          | <0.01                        |             | 992132  |      |             | 992232  |      |        | 992332  |      |

