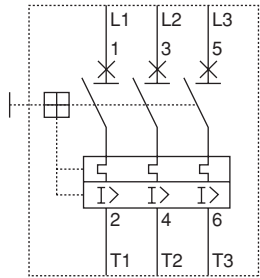


# DUO series Manual Motor Starters

## Wiring diagrams

### ■ Wiring diagrams

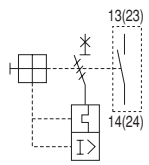
#### • MMS



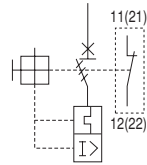
#### • Auxiliary contact blocks

##### Front mounting

BZ0WIA



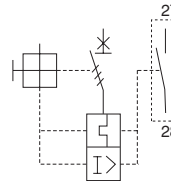
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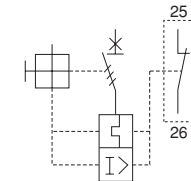
#### • Alarm contact blocks

##### Front mounting

BZ0KIA

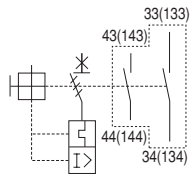


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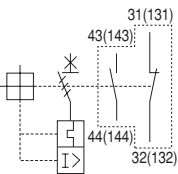


#### Side mounting

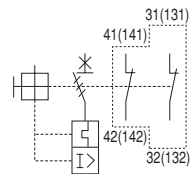
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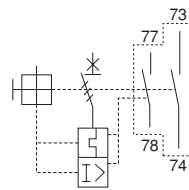


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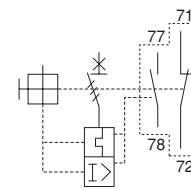


#### • Auxiliary and alarm contact blocks

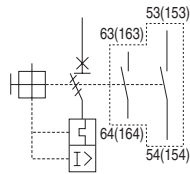
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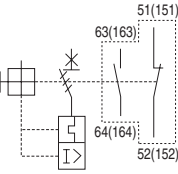
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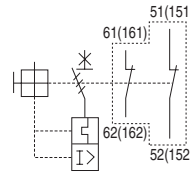
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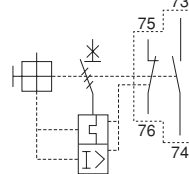
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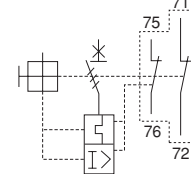
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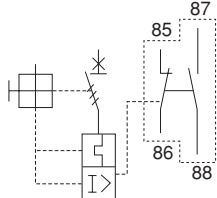


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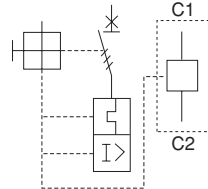
#### • Short-circuit alarm contact blocks

BZ0TKUAB



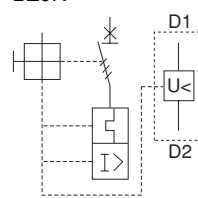
#### • Shunt trip devices

BZ0F



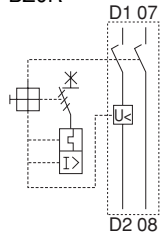
#### • Undervoltage trip devices

BZ0R



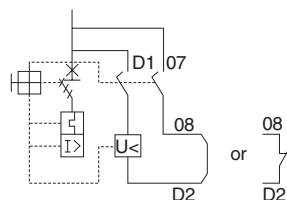
#### • Undervoltage trip devices with early make contacts

BZ0R



There may be no trip indication and no opening of the auxiliary contact even though the MMS is tripped due to short-circuit, overcurrent, or phase-loss.

#### External connection



In addition to the functions of the undervoltage trip device, this device completely opens the main circuit and control circuit when the MMS is turned OFF. However, when the MMS is tripped by a drop in the control circuit voltage, it must be reset.