

## Contactors — continued

### Auxiliary Contact Blocks 'DIL E'



Top mounting snap-fit increases the number of auxiliary contacts available without increasing the width of the contactor. Contact markings conform to EN50011 and the contacts are rated at 10A thermal current.

CTL150

| Auxiliary Contactors | Mfrs. List No. | Order Code | 1+ | 5+ | 10+ | 15+ | 25+ |
|----------------------|----------------|------------|----|----|-----|-----|-----|
| 1 NO + 1 NC          | 11DILEM        | .239-574   |    |    |     |     |     |
| 2 NO + 2NC           | 22DILEM        | .239-586   |    |    |     |     |     |

### Contactors - 'DIL M'



| Frame Size | H   | W   | D   |
|------------|-----|-----|-----|
| '00'       | 77  | 45  | 79  |
| '0'        | 91  | 45  | 84  |
| '1(A)'     | 98  | 60  | 102 |
| '2(A)'     | 118 | 70  | 107 |
| '3(A)'     | 130 | 100 | 135 |
| '4(A)'     | 150 | 120 | 137 |

- Modular construction allowing for accessories to be easily fitted
- All contactors have three main poles as standard
- "Finger proof" terminals IP20 conforming to VDE0106
- Three terminal coils suitable for single sided or diagonal connection
- Contactors are suitable for DIN rail mounting or screw fixing
- Approvals CSA, UL, ASE, SEV, NEMKO, DEMKO and GL

| Frame Size | Main Contact Rating 380/440V ac |       | Mfrs. List No. (+ Voltage) | Order Codes Nominal Coil V @ 50Hz |         |           |         |
|------------|---------------------------------|-------|----------------------------|-----------------------------------|---------|-----------|---------|
|            | AC1                             | AC3   |                            | 24V                               | 110V    | 230V/240V |         |
| '00'       | 20A                             | 8.5A  | 4.0                        | DIL-00M-10                        | 176-139 | 176-140   | 811-804 |
| '00'       | 20A                             | 11.5A | 5.5                        | DIL-00AM                          | 176-142 | 176-143   | 811-816 |
| '0'        | 35A                             | 15.5A | 7.5                        | DIL-0M                            | 176-145 | 176-146   | 811-828 |
| '0'        | 35A                             | 22.5A | 11.0                       | DIL-0AM                           | 176-148 | 176-149   | 811-830 |
| '1'        | 55A                             | 30A   | 15.0                       | DIL-1M                            | —       | 176-152   | 811-841 |
| '1A'       | 55A                             | 36A   | 18.5                       | DIL-1AM                           | 576-931 | 576-943   | 576-955 |
| '2'        | 90A                             | 43A   | 22.0                       | DIL-2M                            | —       | 576-979   | 576-980 |
| '2A'       | 90A                             | 58A   | 30.0                       | DIL-2AM                           | —       | 577-005   | 577-017 |
| '3'        | 104A                            | 72A   | 37.0                       | DIL-3M                            | —       | 577-029   | 577-030 |
| '3A'       | 104A                            | 85A   | 45.0                       | DIL-3AM                           | —       | 577-042   | —       |
| '4'        | 160A                            | 104A  | 55.0                       | DIL-4M                            | —       | —         | 677-474 |
| '4A'       | 160A                            | 142A  | 75.0                       | DIL-4AM                           | —       | —         | 677-486 |

Auxiliary Contact 6A

CTL1012

| Nom. Coil Voltage 50Hz | Main Contact Rating 415V ac AC3 | Order Code | 1+ | 5+ | 10+ | 15+ | 25+ |
|------------------------|---------------------------------|------------|----|----|-----|-----|-----|
| 24                     | 8.5A, 4kW                       | .176-139   |    |    |     |     |     |
| 110                    | 8.5A, 4kW                       | .176-140   |    |    |     |     |     |
| 230                    | 8.5A, 4kW                       | .811-804   |    |    |     |     |     |
| 24                     | 11.5A, 5.5kW                    | .176-142   |    |    |     |     |     |
| 110                    | 11.5A, 5.5kW                    | .176-143   |    |    |     |     |     |
| 230                    | 11.5A, 5.5kW                    | .811-816   |    |    |     |     |     |
| 24                     | 15.5A, 7.5kW                    | .176-145   |    |    |     |     |     |
| 110                    | 15.5A, 7.5kW                    | .176-146   |    |    |     |     |     |
| 230                    | 15.5A, 7.5kW                    | .811-828   |    |    |     |     |     |
| 24                     | 22.5A, 11kW                     | .176-148   |    |    |     |     |     |
| 110                    | 22.5A, 11kW                     | .176-149   |    |    |     |     |     |
| 230                    | 22.5A, 11kW                     | .811-830   |    |    |     |     |     |
| 110                    | 30A, 15kW                       | .176-152   |    |    |     |     |     |
| 230                    | 30A, 15kW                       | .811-841   |    |    |     |     |     |
| 24                     | 36A, 18.5kW                     | .576-931   |    |    |     |     |     |
| 110                    | 36A, 18.5kW                     | .576-943   |    |    |     |     |     |
| 240                    | 36A, 18.5kW                     | .576-955   |    |    |     |     |     |
| 110                    | 43A, 22kW                       | .576-979   |    |    |     |     |     |
| 240                    | 43A, 22kW                       | .576-980   |    |    |     |     |     |
| 110                    | 58A, 30kW                       | .577-005   |    |    |     |     |     |
| 240                    | 58A, 30kW                       | .577-017   |    |    |     |     |     |
| 110                    | 72A, 37kW                       | .577-029   |    |    |     |     |     |
| 240                    | 72A, 37kW                       | .577-030   |    |    |     |     |     |
| 110                    | 85A, 45kW                       | .577-042   |    |    |     |     |     |
| 240                    | 104A, 55kW                      | .677-474   |    |    |     |     |     |
| 240                    | 142A, 75kW                      | .677-486   |    |    |     |     |     |

### Overload Relays - 'DIL M'



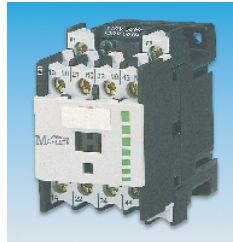
| Overload relay fitted to contactor | H   | W   | D   |
|------------------------------------|-----|-----|-----|
| Z00 on frame size '00'             | 120 | 45  | 95  |
| Z00 on frame size '0'              | 133 | 45  | 101 |
| Z1 on frame size '1'               | 153 | 60  | 96  |
| Z1 on frame size '2'               | 171 | 60  | 96  |
| Z1 on frame size '3'               | 238 | 100 | 133 |

- Three pole thermal overload relays for mounting directly to "DIL M" contactors
- Thermal Protection
- Complete with "Single Phasing Sensitivity"
- Temperature compensated from -25°C to +50°C
- 1NO and 1NC electrically separate auxiliary contacts
- Hand or Auto setting
- Test/de-energising button
- "Finger proof" terminals, IP20 conforming to VDE0106

CTL013

| Motor f.l.c. Range (A) | Frame Size | Mfrs. List No. | Order Code | 1+ | 5+ | 10+ | 15+ |
|------------------------|------------|----------------|------------|----|----|-----|-----|
| 0.6 to 1.0             | 00,0       | Z00-1          | .176-154   |    |    |     |     |
| 1.0 to 1.6             | 00,0       | Z00-1.6        | .176-155   |    |    |     |     |
| 1.6 to 2.4             | 00,0       | Z00-2.4        | .176-156   |    |    |     |     |
| 2.4 to 4.0             | 00,0       | Z00-4          | .176-157   |    |    |     |     |
| 4.0 to 6.0             | 00,0       | Z00-6          | .176-158   |    |    |     |     |
| 6.0 to 10              | 00,0       | Z00-10         | .176-159   |    |    |     |     |
| 10 to 16               | 00,0       | Z00-16         | .176-160   |    |    |     |     |
| 16 to 24               | 1,2        | Z1-24          | .577-080   |    |    |     |     |
| 24 to 40               | 1,2        | Z1-40          | .577-091   |    |    |     |     |
| 40 to 57               | 1,2        | Z1-57          | .577-108   |    |    |     |     |
| 50 to 63               | 1,2        | Z1-63          | .577-110   |    |    |     |     |
| 50 to 70               | 3          | Z5-70/SK3      | .577-121   |    |    |     |     |
| 70 to 100              | 3          | Z5-100/SK3     | .577-133   |    |    |     |     |

### Control Relays 'DIL M'



A range of 4 pole control relays with interlocking opposing contacts for greater control safety.

- Screw or DIN rail mounting
- Terminals have IP20 finger protection
- Auxiliary contacts give a maximum of 8 pole switching
- Approved to IEC947-4

H = 77, W = 45, D = 79.

Contact rating (thermal) 16A  
 Rated insulation voltage 690Vac.  
 Coil voltages (24Vac 50Hz, 110Vac 50Hz, 240Vac 50Hz)

CTL003

| Coil Voltage 50Hz  | Mfrs. List No. | Order Code   | 1+       | 5+ | 10+ | 15+ |
|--------------------|----------------|--------------|----------|----|-----|-----|
| 2NO + 2NC Contacts | 24             | DILR2224VAC  | .585-804 |    |     |     |
|                    | 110            | DILR22110VAC | .585-816 |    |     |     |
|                    | 240            | DILR22230VAC | .812-341 |    |     |     |
| 3NO + 1NC Contacts | 24             | DILR31 24VAC | .585-830 |    |     |     |
|                    | 110            | DILR31110VAC | .585-841 |    |     |     |
|                    | 240            | DILR31230VAC | .812-353 |    |     |     |
| 4NO Contacts       | 24             | DILR40 24VAC | .585-865 |    |     |     |
|                    | 110            | DILR40110VAC | .585-877 |    |     |     |
|                    | 240            | DILR40230VAC | .812-365 |    |     |     |

### Auxiliary Contact Blocks 'DIL M'



Top Mounting  
 Additional depth to contactor = 32

Side mounting  
 Additional width to contactor = 10

- Auxiliary contacts suitable for "DIL M" range of contactors and relays
- Top or side mounting types
- Maximum of 4 additional contacts may be added to "00 to 2" frame sizes (2 side, 1 top)
- Control relays will accept max. of 4 additional contacts

Contact rating, thermal 16A  
 Insulation voltage 690 Vac. Note: 176-166 will not fit size '00' contactors.  
 Contact material Silver

CTL014

| Contact Arrangement                          | Mounting | Mfrs. List No. | Order Code | 1+ | 5+ | 10+ | 15+ |
|--|----------|----------------|------------|----|----|-----|-----|
| <b>For Contactor Frame Sizes '00' to '2'</b> |          |                |            |    |    |     |     |
| 1 NO + 1 NC                                  | Top      | 11-DILM        | .176-163   |    |    |     |     |
| 2 NO + 2 NC                                  | Top      | 22-DILM        | .176-164   |    |    |     |     |
| 3 NO + 1 NC                                  | Top      | 31-DILM        | .176-165   |    |    |     |     |
| 1 NO + 1 NC                                  | Side     | 11S-DILM       | .176-166   |    |    |     |     |
| <b>For Control Relays</b>                    |          |                |            |    |    |     |     |
| 2NO + 2 NC                                   | Top      | 22-DIL         | .585-907   |    |    |     |     |
| 4 NO   | Top      | 40-DIL         | .585-920   |    |    |     |     |