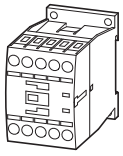
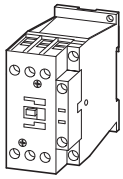
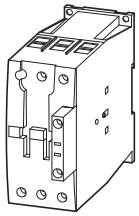
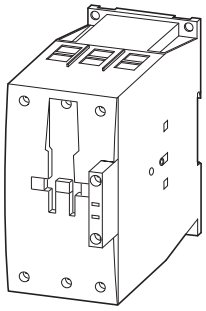
**DILM, DILE(E)M, DILMP**

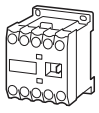
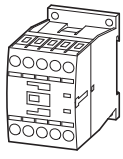
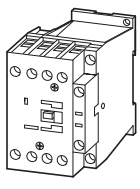
## Technical overview

**Contactors**
3 pole

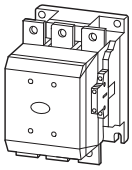
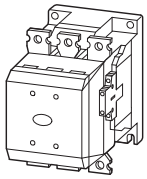
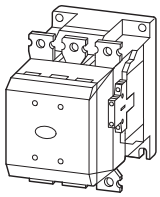
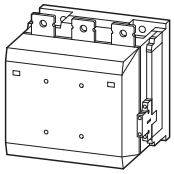
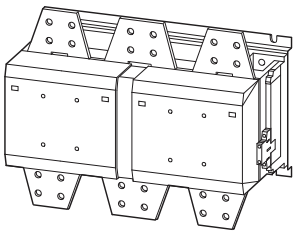
| DIL | | EEM | EM | EM12 | M7 | M9 | M12 | M15 | M17 | M25 | M32 | M38 | M40 | M50 | M65 | M80 | M95 | M115 | M150 | M170 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Basic devices | Page | → 5/4 | | | → 5/18 | | | | → 5/18 | | | | → 5/20 | | | → 5/50 | | | | |
| Complete units | Page | | – | | → Page 5/24 | | | – | → Page 5/24 | | | | → Page 5/26 | | | → Page 5/26 | | | | |
| Rated-operational voltage | | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| **AC-3** Rated operational power for 3-phase motors 50 – 60 Hz | | | | | | | | | | | | | | | | | | | | |
| 220 V – 230 V | | 1.5 | 2.2 | 3 | 2.2 | 2.5 | 3.5 | 4 | 5 | 7.5 | 10 | 11 | 12.5 | 15.5 | 20 | 25 | 30 | 37 | 48 | 52 |
| **380 V – 400 V** | | **3** | **4** | **5.5** | **3** | **4** | **5.5** | **7.5** | **7.5** | **11** | **15** | **18.5** | **18.5** | **22** | **30** | **37** | **45** | **55** | **75** | **90** |
| 440 V | | 3.3 | 4.6 | 5.5 | 4.5 | 5.5 | 7.5 | 8.4 | 10.5 | 15.5 | 20 | 21 | 25 | 32 | 41 | 51 | 60 | 75 | 95 | 105 |
| 500 V | | 3 | 4 | 5.5 | 3.5 | 4.5 | 7 | 7.5 | 12 | 17.5 | 23 | 24 | 28 | 36 | 47 | 58 | 70 | 85 | 110 | 120 |
| 660 V/690 V | | 3 | 4 | 4 | 3.5 | 4.5 | 6.5 | 7 | 11 | 14 | 17 | 21 | 23 | 30 | 35 | 63 | 75 | 90 | 96 | 140 |
| 1000 V | | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| **AC-4** Rated operational power for 3-phase motors 50 – 60 Hz | | ⚠ Increase in life span for DILM7 – DILM150 to 200000 operations | | | | | | | | | | | | | | | | | | |
| 220 V – 230 V | | 1.1 | 1.5 | 1.5 | 1 | 1.5 | 2 | 2 | 2.5 | 3.5 | 4 | 4 | 5 | 6 | 7 | 12 | 16 | 17 | 20 | 20 |
| **380 V – 400 V** | | **2.2** | **3** | **3** | **2.2** | **2.5** | **3** | **3** | **4.5** | **6** | **7** | **7** | **9** | **10** | **12** | **20** | **26** | **28** | **33** | **33** |
| 440 V | | 2.4 | 3.3 | 3.3 | 2.4 | 3 | 3.6 | 3.6 | 5.5 | 7 | 8 | 8 | 10 | 12 | 14 | 25 | 32 | 35 | 41 | 41 |
| 500 V | | 2.2 | 3 | 3 | 2.5 | 2.8 | 3.5 | 3.5 | 6 | 8 | 9 | 9 | 11 | 13 | 16 | 29 | 36 | 40 | 47 | 47 |
| 660 V/690 V | | 2.2 | 3 | 3 | 2.9 | 3.6 | 4.4 | 4.4 | 6.5 | 8.5 | 10 | 10 | 12 | 14 | 17 | 26 | 35 | 43 | 48 | 48 |
| 1000 V | | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| **AC-1** Rated operational power under resistive load, 40 °C | | | | | | | | | | | | | | | | | | | | |
| 220 V – 230 V | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 15 | 17 | 17 | 17 | 22 | 30 | 37 | 42 | 49 | 61 | 72 | 85 |
| **380 V – 400 V** | | **13** | **13** | **13** | **14** | **14** | **14** | **14** | **26** | **29** | **29** | **29** | **39** | **53** | **65** | **72** | **85** | **105** | **125** | **150** |
| 440 V | | 15 | 15 | 15 | 16 | 16 | 16 | 16 | 30 | 34 | 34 | 34 | 45 | 58 | 71 | 80 | 94 | 116 | 138 | 170 |
| 500 V | | 18 | 18 | 18 | 19 | 19 | 19 | 19 | 34 | 38 | 38 | 38 | 51 | 66 | 81 | 90 | 107 | 132 | 156 | 194 |
| 660 V/690 V | | 23 | 23 | 23 | 25 | 25 | 25 | 25 | 45 | 51 | 51 | 51 | 68 | 91 | 111 | 125 | 148 | 182 | 216 | 268 |
| 1000 V | | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Conventional thermal Current $I_{th} = I_e$ open at 40 °C | | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 40 | 45 | 45 | 45 | 60 | 80 | 98 | 110 | 130 | 160 | 190 | 225 |

**Contactors**
4 pole

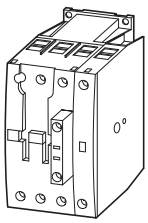
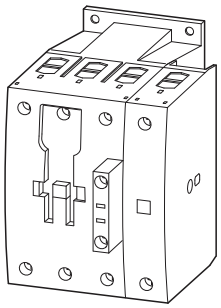
| DIL | | EM4 | MP20 | MP32 |
|---|---|---|---|---|
| Rated operational voltage | Page | → 5/4 | → Page 5/36 | → Page 5/36 |
| **AC-1** | | | | |
| Conventional free air thermal current $I_{th} = I_e$ open, at 40 °C | | A | A | A |
| up to 690 V | | 22 | 22 | 32 |

**Contactors**
3 pole

| M185A | M225A | M250 | M300A | M400 | M500 | M580 | M650 | M750 | M820 | M1000 | M1600 | H1400 | H2000 | H2200 | H2600 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| → Page 5/32 | | | → Page 5/32 | | | → Page 5/32 | | → Page 5/32 | | | → Page 5/34 | | | | |
| kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| | | | | | | | | | | | | | | | |
| 55 | 70 | 75 | 90 | 125 | 155 | 185 | 205 | 240 | 260 | 315 | 500 | – | – | – | – |
| **90** | **110** | **132** | **160** | **200** | **250** | **315** | **355** | **400** | **450** | **560** | **900** | – | – | – | – |
| 115 | 142 | 157 | 190 | 255 | 345 | 370 | 420 | 480 | 525 | 650 | 1000 | – | – | – | – |
| 132 | 160 | 180 | 215 | 290 | 360 | 420 | 470 | 550 | 600 | 730 | 1180 | – | – | – | – |
| 175 | 215 | 240 | 286 | 344 | 344 | 560 | 630 | 720 | 750 | 1000 | 1600 | – | – | – | – |
| 108 | 108 | 108 | 132 | 132 | 132 | 600 | 600 | 800 | 800 | 1000 | 1770 | – | – | – | – |
| | | | | | | | | | | | | | | | |
| 41 | 51 | 62 | 75 | 92 | 112 | 143 | 161 | 181 | 209 | 260 | 430 | – | – | – | – |
| **75** | **90** | **110** | **132** | **160** | **200** | **250** | **280** | **315** | **355** | **450** | **750** | – | – | – | – |
| 85 | 102 | 125 | 140 | 186 | 229 | 290 | 326 | 367 | 418 | 520 | 830 | – | – | – | – |
| 96 | 116 | 143 | 172 | 214 | 260 | 330 | 370 | 417 | 474 | 590 | 940 | – | – | – | – |
| 127 | 155 | 189 | 229 | 283 | 344 | 440 | 494 | 556 | 633 | 780 | 1300 | – | – | – | – |
| 108 | 108 | 108 | 132 | 132 | 132 | 509 | 509 | 678 | 678 | 1000 | 1650 | – | – | – | – |
| | | | | | | | | | | | | | | | |
| 121 | 139 | 155 | 177 | 221 | 310 | 354 | 376 | 398 | 443 | 443 | 717 | 620 | 886 | 1075 | 1269 |
| **210** | **241** | **268** | **306** | **382** | **535** | **612** | **650** | **689** | **766** | **766** | **1247** | **1071** | **1531** | **1870** | **2207** |
| 243 | 279 | 310 | 354 | 443 | 620 | 709 | 753 | 797 | 886 | 886 | 1371 | 1240 | 1773 | 2058 | 2427 |
| 277 | 317 | 352 | 403 | 503 | 705 | 806 | 856 | 906 | 1007 | 1007 | 1558 | 1410 | 2015 | 2338 | 2758 |
| 365 | 419 | 465 | 532 | 664 | 930 | 1064 | 1130 | 1196 | 1330 | 1330 | 2151 | 1861 | 2660 | 3227 | 3806 |
| 554 | 635 | 705 | 806 | 1007 | 1410 | 1612 | 1712 | 1813 | 2015 | 2015 | 2420 | 2417 | 3223 | 4676 | 5516 |
| A | A | A | A | A | A | A | A | A | A | A | A | A | A | | |
| 337 | 356 | 400 | 430 | 612 | 857 | 980 | 1041 | 1102 | 1225 | 1225 | 2200 | 1714 | 2450 | 2700 | 3185 |

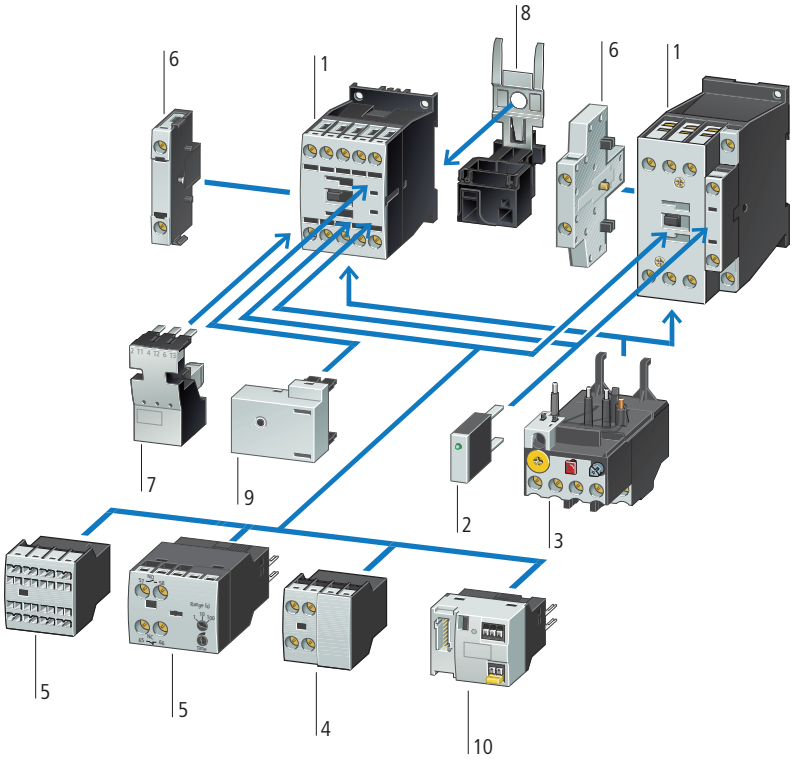
**Contactors**
4 pole

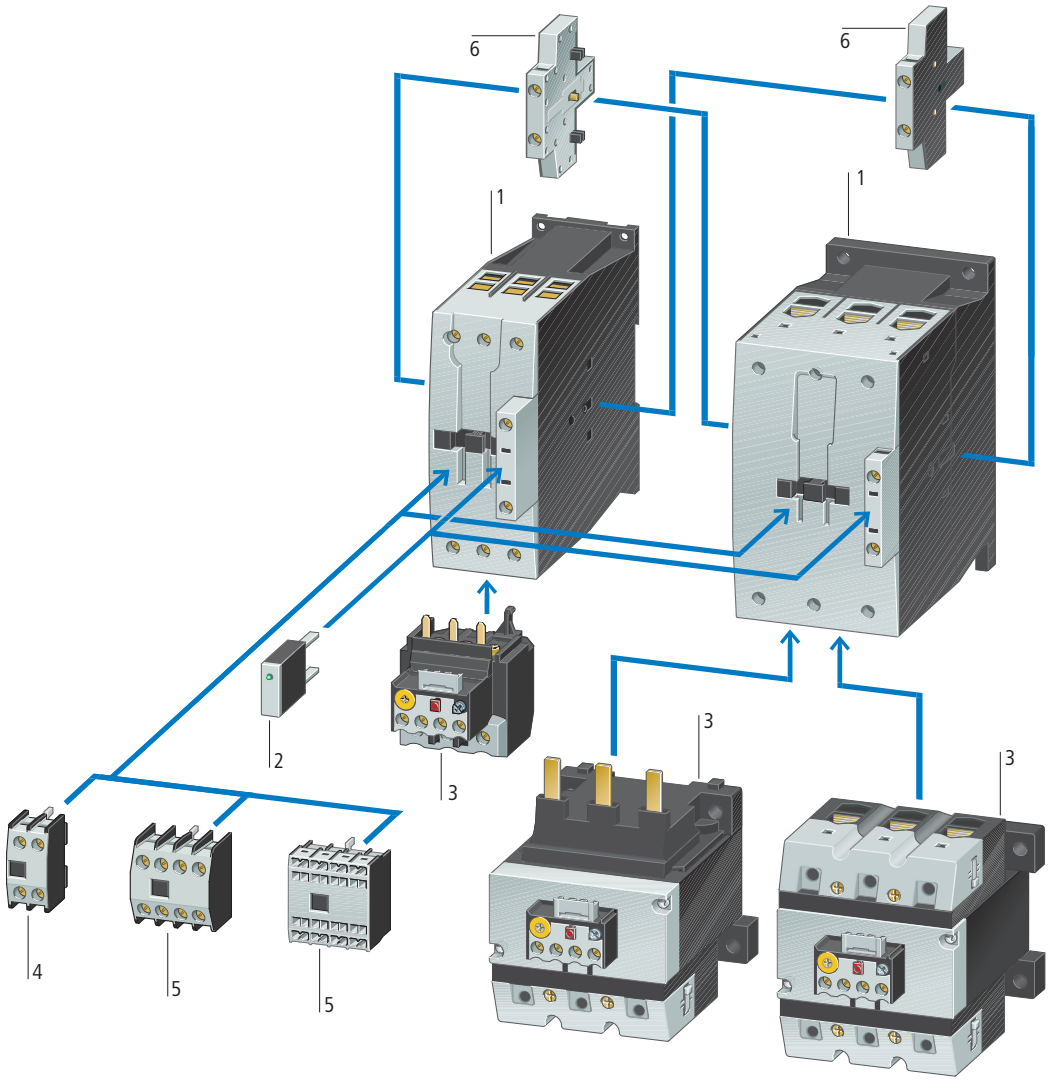



| MP45 | MP63 | MP80 | MP125 | MP160 | MP200 |
|---|---|---|---|---|---|
| → Page 5/36 | → Page 5/36 | | → Page 5/36 | | |
| A | A | A | A | A | A |
| 45 | 63 | 80 | 125 | 160 | 200 |

**DILM7...DILM170**

## System overview





Contactors up to 90 kW (AC-3/400 V) 1

3 pole
→ Page 5/18

4 pole
→ Page 5/36

Suppressor circuits 2
→ Page 5/54

Overload relays 3
→ Page 6/8

Auxiliary contact modules 4
→ Page 5/38

Auxiliary contact modules 5
→ Page 5/38

Auxiliary contact modules 6
→ Page 5/41

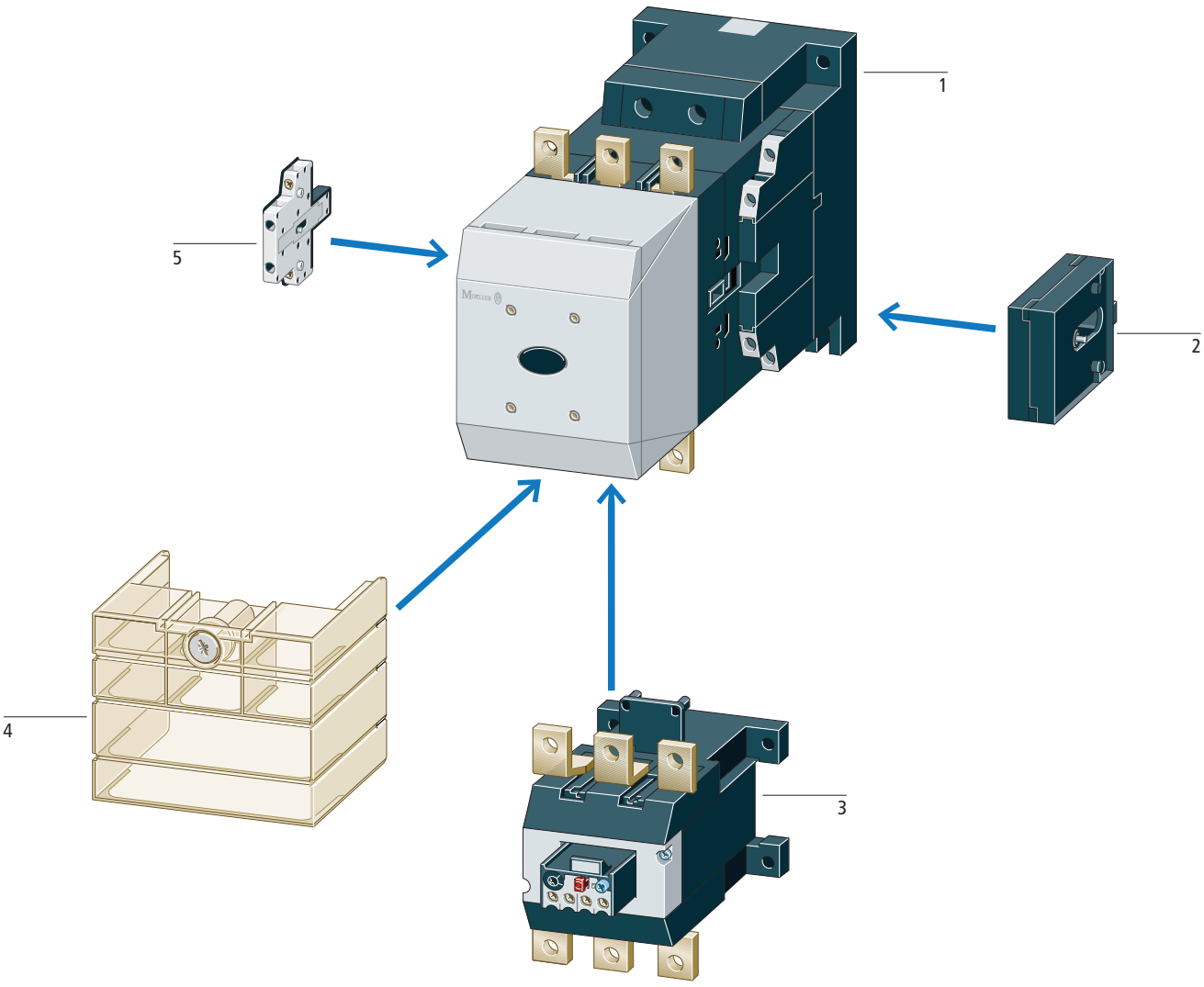
Motor feeder plug 7
→ Page 5/62

PE module with contact plate 8
→ Page 5/62

Motor suppressor module
→ Page 5/63

SmartWire-Darwin contactor module 10
→ Page 5/62

**DILM185... DILH2600**




**Contactors 90 – 900 kW (AC-3/400 V) Comfort series** 1

→ Page 5/32

**Standard range 90 – 250 kW** 1

→ Page 5/30

**Mechanical interlock** 2

→ Page 5/56

**Overload relays** 3

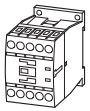
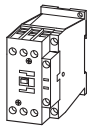
→ Page 6/12

**Terminal shroud** 4

→ Page 5/65

**Auxiliary contact modules** 5

→ Page 5/41

| Rated operational current | Max. motor rating for three-phase motors 50 - 60 Hz | | | | | | Conventional thermal current $I_{th} = I_e$ AC-1 at 60 °C | Contact configuration | | Circuit symbol |
|---|---|---|---|---|---|---|---|---|---|---|
| AC-3 | AC-3 | | | AC-4 | | | | N/O = normally open contact<br>NC = normally closed contact | | |
| **380 V**<br>**400 V** | 220 V<br>230 V | **380 V**<br>**400 V** | 660 V<br>690 V | 220 V<br>230 V | **380 V**<br>**400 V** | 660 V<br>690 V | Open | | | |
| $I_e$<br>**A** | P<br>kW | **P**<br>**kW** | P<br>kW | P<br>kW | **P**<br>**kW** | P<br>kW | $I_{th} = I_e$<br>A | | | |
| **Basic device** | | | | | | | | | | |
| Screw terminals | | | | | | | | | | |
| 3 pole | | | | | | | | | | |
|  | **7** | 2.2 | **3** | 3.5 | 1 | **2.2** | 2.9 | 20 | 1 N/O | – |  |
| | **7** | 2.2 | **3** | 3.5 | 1 | **2.2** | 2.9 | 20 | – | 1 NC |  |
| | **9** | 2.5 | **4** | 4.5 | 1.5 | **2.5** | 3.6 | 20 | 1 N/O | – |  |
| | **9** | 2.5 | **4** | 4.5 | 1.5 | **2.5** | 3.6 | 20 | – | 1 NC |  |
| | **12** | 3.5 | **5.5** | 6.5 | 2 | **3** | 4.4 | 20 | 1 N/O | – |  |
| | **12** | 3.5 | **5.5** | 6.5 | 2 | **3** | 4.4 | 20 | – | 1 NC |  |
| | **15.5** | 4 | **7.5** | 7 | 2 | **3** | 4.4 | 20 | 1 N/O | – |  |
| | **15.5** | 4 | **7.5** | 7 | 2 | **3** | 4.4 | 20 | – | 1 NC |  |
|  | **18** | 5 | **7.5** | 11 | 2.5 | **4.5** | 6.5 | 35 | 1 N/O | – |  |
| | **18** | 5 | **7.5** | 11 | 2.5 | **4.5** | 6.5 | 35 | – | 1 NC |  |
| | **25** | 7.5 | **11** | 14 | 3.5 | **6** | 8.5 | 40 | 1 N/O | – |  |
| | **25** | 7.5 | **11** | 14 | 3.5 | **6** | 8.5 | 40 | – | 1 NC |  |
| | **32** | 10 | **15** | 17 | 4 | **7** | 10 | 40 | 1 N/O | – |  |
| | **32** | 10 | **15** | 17 | 4 | **7** | 10 | 40 | – | 1 NC |  |
| | **38** | 11 | **18.5** | 21 | 4 | **7** | 10 | 40 | 1 N/O | – |  |
| | **38** | 11 | **18.5** | 21 | 4 | **7** | 10 | 40 | – | 1 NC |  |

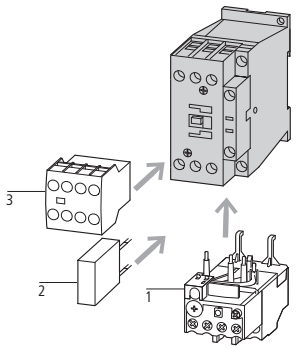
**Information relevant for export to North America**

| | |
|---|---|
| Product Standards | IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking |
| UL File No. | E29096 |
| UL CCN | NLDX |
| CSA File No. | 012528 |
| CSA Class No. | 2411-03, 3211-04 |
| NA Certification | UL Listed,<br>CSA certified |
| See also | → Page 5/84 |



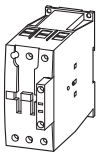


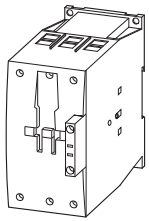
| Can be combined with auxiliary contact | AC operation<br>**Part no.**<br>Article no. | **Price**<br>See price list | DC operation<br>**Part no.**<br>Article no. | **Price**<br>See price list | Std. pack | **Notes** |
|---|---|---|---|---|---|---|
| DILM32-XHI..<br>DILA-XHI(V).. | **DILM7-10(230V50HZ)**<br>276550 | | **DILM7-10(24VDC)**<br>276565 | | 1 off | Contacts to EN 50 012.<br>For all DC operated contactors DILM7 - DILM15 the following applies:<br>• Integrated varistor-suppressor circuit.<br>For DC operated contactors DILM17 - DILM170 the following applies:<br>• Integrated suppressor circuit in actuating electronics<br>For AC operated contactors DILM115 - DILM170 the following applies:<br>• Integrated suppressor circuit in actuating electronics<br>For DILM7-01 – DILM38-01 the following applies:<br>• With mirror contact.<br><br>1) Electrical lifespan → 5/91 |
| DILA-XHI(V).. | **DILM7-01(230V50HZ)**<br>276585 | | **DILM7-01(24VDC)**<br>276600 | | | |
| DILM32-XHI..<br>DILA-XHI(V).. | **DILM9-10(230V50HZ)**<br>276690 | | **DILM9-10(24VDC)**<br>276705 | | | |
| DILA-XHI(V).. | **DILM9-01(230V50HZ)**<br>276725 | | **DILM9-01(24VDC)**<br>276740 | | | |
| DILM32-XHI..<br>DILA-XHI(V).. | **DILM12-10(230V50HZ)**<br>276830 | | **DILM12-10(24VDC)**<br>276845 | | | |
| DILA-XHI(V).. | **DILM12-01(230V50HZ)**<br>276865 | | **DILM12-01(24VDC)**<br>276880 | | | |
| DILM32-XHI..<br>DILA-XHI(V).. | **DILM15-10(230V50HZ)**[1]<br>290058 | | **DILM15-10(24VDC)**[1]<br>290073 | | | |
| DILA-XHI(V).. | **DILM15-01(230V50HZ)**[1]<br>290093 | | **DILM15-01(24VDC)**[1]<br>290108 | | | |
| DILM32-XHI..<br>DILA-XHI(V)..<br>DILM32-XHI11-S | **DILM17-10(230V50HZ)**<br>277004 | | **DILM17-10(RDC24)**<br>277018 | | | |
| DILA-XHI(V)..<br>DILM32-XHI11-S | **DILM17-01(230V50HZ)**<br>277036 | | **DILM17-01(RDC24)**<br>277050 | | | |
| DILM32-XHI..<br>DILA-XHI(V)..<br>DILM32-XHI11-S | **DILM25-10(230V50HZ)**<br>277132 | | **DILM25-10(RDC24)**<br>277146 | | | |
| DILA-XHI(V)..<br>DILM32-XHI11-S | **DILM25-01(230V50HZ)**<br>277164 | | **DILM25-01(RDC24)**<br>277178 | | | |
| DILM32-XHI..<br>DILA-XHI(V)..<br>DILM32-XHI11-S | **DILM32-10(230V50HZ)**<br>277260 | | **DILM32-10(RDC24)**<br>277274 | | | |
| DILA-XHI(V)..<br>DILM32-XHI11-S | **DILM32-01(230V50HZ)**<br>277292 | | **DILM32-01(RDC24)**<br>277306 | | | |
| DILM32-XHI..<br>DILA-XHI(V)..<br>DILM32-XHI11-S | **DILM38-10(230V50HZ)**[1]<br>112428 | | **DILM38-10(RDC24)**[1]<br>112442 | | | |
| DILA-XHI(V)..<br>DILM32-XHI11-S | **DILM38-01(230V50HZ)**[1]<br>112456 | | **DILM38-01(RDC24)**[1]<br>112470 | | | |




| **Accessories** | **Page** |
|---|---|
| 1 Overload relay | → Chapter 6 |
| 2 Suppressor | → 5/54 |
| 3 Auxiliary contact module | → 5/38 |
| Further actuating voltages | → 5/73 |
| Accessories | → 5/56 |

| Rated operational current | Max. motor rating for three-phase motors 50 - 60 Hz | | | | | | | Conventional thermal current $I_{th} = I_e$ AC-1 at 60 °C | Contact configuration | Circuit symbol |
|---|---|---|---|---|---|---|---|---|---|---|
| AC-3 | AC-3 | | | AC-4 | | | | | N/O = normally open contact<br>NC = normally closed contact | |
| **380 V**<br>**400 V** | 220 V<br>230 V | **380 V**<br>**400 V** | 660 V<br>690 V | 220 V<br>230 V | **380 V**<br>**400 V** | 660 V<br>690 V | Open | | | |
| $I_e$ | P | **P** | P | P | **P** | P | $I_{th} = I_e$ | | | |
| **A** | kW | **kW** | kW | kW | **kW** | kW | A | | | |
| **Basic device** | | | | | | | | | | |
| Screw terminals | | | | | | | | | | |
| 3 pole | | | | | | | | | | |
| **40** | 12.5 | **18.5** | 23 | 5 | **9** | 12 | 50 | – | – | |
| **50** | 15.5 | **22** | 30 | 6 | **10** | 14 | 65 | – | – | |
| **65** | 20 | **30** | 35 | 7 | **12** | 17 | 80 | – | – | |
| **72** | 25 | **37** | 35 | 7 | **12** | 17 | 80 | – | – | |
| **80** | 25 | **37** | 63 | 12 | **20** | 26 | 90 | – | – | |
| **95** | 30 | **45** | 75 | 16 | **26** | 35 | 110 | – | – | |
| **115** | 37 | **55** | 90 | 17 | **28** | 43 | 130 | – | – | |
| **150** | 48 | **75** | 96 | 20 | **33** | 48 | 160 | – | – | |
| **170** | 52 | **90** | 140 | 20 | **33** | 48 | 185 | – | – | |





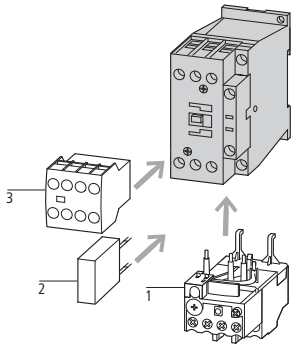
**Information relevant for export to North America**

| | |
|---|---|
| Product Standards | IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking |
| UL File No. | E29096 |
| UL CCN | NLDX |
| CSA File No. | 012528 |
| CSA Class No. | 2411-03, 3211-04 |
| NA Certification | UL Listed,<br>CSA certified |
| See also | → Page 5/84 |





| Can be combined with auxiliary contact | AC operation<br>**Part no.**<br>Article no. | **Price**<br>See price list | DC operation<br>**Part no.**<br>Article no. | **Price**<br>See price list | Std. pack | **Notes** |
|---|---|---|---|---|---|---|
| DILM150-XHI(V)..<br>DILM1000-XHI(V).. | **DILM40(230V50HZ)**<br>277766 | | **DILM40(RDC24)**<br>277780 | | 1 off | Contacts to EN 50012.<br>For all DC operated contactors DILM7 - DILM15 the following applies:<br>• Integrated varistor-suppressor circuit.<br>For DC operated contactors DILM17 - DILM170 the following applies:<br>• Integrated suppressor circuit in actuating electronics<br>For AC operated contactors DILM115 - DILM170 the following applies:<br>• Integrated suppressor circuit in actuating electronics<br>For DILM7-01 – DILM38-01 the following applies:<br>• With mirror contact.<br><br>[1] Electrical lifespan → 5/91 |
| DILM150-XHI(V)..<br>DILM1000-XHI(V).. | **DILM50(230V50HZ)**<br>277830 | | **DILM50(RDC24)**<br>277844 | | | |
| DILM150-XHI(V)..<br>DILM1000-XHI(V).. | **DILM65(230V50HZ**<br>277894 | | **DILM65(RDC24)**<br>277908 | | | |
| DILM150-XHI(V)..<br>DILM1000-XHI(V).. | **DILM72(230V50HZ)**[1]<br>107670 | | **DILM72(RDC24)**[1]<br>107671 | | | |
| DILM150-XHI(V)..<br>DILM1000-XHI(V).. | **DILM80(230V50HZ)**<br>239402 | | **DILM80(RDC24)**<br>239416 | | | |
| DILM150-XHI(V)..<br>DILM1000-XHI(V).. | **DILM95(230V50HZ)**<br>239480 | | **DILM95(RDC24)**<br>239510 | | | |
| DILM150-XHI(V)..<br>DILM1000-XHI(V).. | **DILM115(RAC240)**<br>239548 | | **DILM115(RDC24)**<br>239555 | | | |
| DILM150-XHI(V)..<br>DILM1000-XHI(V).. | **DILM150(RAC240)**<br>239588 | | **DILM150(RDC24)**<br>239591 | | | |
| DILM150-XHI(V)..<br>DILM1000-XHI(V).. | **DILM170(RAC240)**[1]<br>107013 | | **DILM170(RDC24)**[1]<br>107016 | | | |



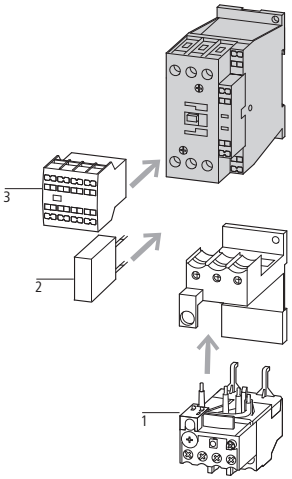

| **Accessories** | **Page** |
|---|---|
| 1 Overload relay | → Chapter 6 |
| 2 Suppressor | → 5/54 |
| 3 Auxiliary contact module | → 5/38 |
| Further actuating voltages | → 5/75 |
| Accessories | → 5/56 |

| Rated operational current AC-3 | Max. motor rating for three-phase motors 50 - 60 Hz AC-3 | | | AC-4 | | | Conventional thermal current $I\ I_{th} = I_e$ AC-1 at 60 °C | Contact configuration N/O = normally open contact NC = normally closed contact | | Circuit symbol |
|---|---|---|---|---|---|---|---|---|---|---|
| **380 V 400 V** | 220 V 230 V | **380 V 400 V** | 660 V 690 V | 220 V 230 V | **380 V 400 V** | 660 V 690 V | Open | | | |
| $I_e$ | P | P | P | P | P | P | $I_{th} = I_e$ | | | |
| **A** | kW | **kW** | kW | kW | **kW** | kW | A | | | |
| **Basic device** | | | | | | | | | | |
| Spring-loaded terminals 3 pole | | | | | | | | | | |
| **7** | 2.2 | **3** | 3.5 | 1 | **2.2** | 2.9 | 20 | 1 N/O | – | |
| **7** | 2.2 | **3** | 3.5 | 1 | **2.2** | 2.9 | 20 | – | 1 NC | |
| **9** | 2.5 | **4** | 4.5 | 1.5 | **2.5** | 3.6 | 20 | 1 N/O | – | |
| **9** | 2.5 | **4** | 4.5 | 1.5 | **2.5** | 3.6 | 20 | – | 1 NC | |
| **12** | 3.5 | **5.5** | 6.5 | 2 | **3** | 4.4 | 20 | 1 N/O | – | |
| **12** | 3.5 | **5.5** | 6.5 | 2 | **3** | 4.4 | 20 | – | 1 NC | |
| **15.5** | 4 | **7.5** | 7 | 2 | **3** | 4.4 | 20 | 1 N/O | – | |
| **15.5** | 4 | **7.5** | 7 | 2 | **3** | 4.4 | 20 | – | 1 NC | |
| Spring-loaded terminals on auxiliary and control circuit terminals 3 pole | | | | | | | | | | |
| **18** | 5 | **7.5** | 11 | 2.5 | **4.5** | 6.5 | 35 | 1 N/O | – | |
| **18** | 5 | **7.5** | 11 | 2.5 | **4.5** | 6.5 | 35 | – | 1 NC | |
| **25** | 7.5 | **11** | 14 | 3.5 | **6** | 8.5 | 40 | 1 N/O | – | |
| **25** | 7.5 | **11** | 14 | 3.5 | **6** | 8.5 | 40 | – | 1 NC | |
| **32** | 10 | **15** | 17 | 4 | **7** | 10 | 40 | 1 N/O | – | |
| **32** | 10 | **15** | 17 | 4 | **7** | 10 | 40 | – | 1 NC | |
| **40** | 12.5 | **18.5** | 23 | 5 | **9** | 12 | 50 | – | – | |
| **50** | 15.5 | **22** | 30 | 6 | **10** | 14 | 65 | – | – | |
| **65** | 20 | **30** | 35 | 7 | **12** | 17 | 80 | – | – | |
| **80** | 25 | **37** | 63 | 12 | **20** | 26 | 90 | – | – | |
| **95** | 30 | **45** | 75 | 16 | **26** | 35 | 110 | – | – | |
| **115** | 37 | **55** | 90 | 17 | **28** | 43 | 130 | – | – | |
| **150** | 48 | **75** | 96 | 20 | **33** | 48 | 160 | – | – | |





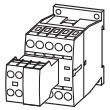
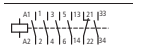
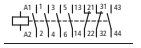
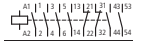
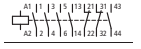
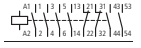
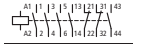
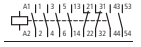
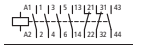
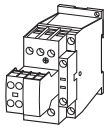
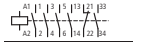
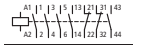
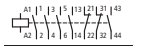
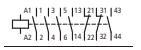
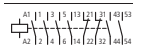
| Can be combined with auxiliary contact | **AC operation** Part no. Article no. | Price See price list | **DC operation** Part no. Article no. | Price See price list | Std. pack | **Notes** |
|---|---|---|---|---|---|---|
| DILM32-XHIC.. DILA-XHIC(V).. | **DILMC7-10(230V50HZ)** 277389 | | **DILMC7-10(24VDC)** 277404 | | 1 off | Contacts to EN 50 012. For DILMC7 – DILMC15 the following applies: • Auxiliary coil, and main current terminals with spring-loaded terminals. For DILMC17 – DILMC150 the following applies: • Auxiliary connections, coil connections with spring-loaded connection terminals. • Main current connections with screw terminals. For DC operated contactors DILMC7 - DILMC15 the following applies: • Integrated varistor-suppressor circuit. For DC operated contactors DILMC17 - DILMC150 the following applies: • Integrated suppressor circuit in actuating electronics For AC operated contactors DILMC115 - DILMC150 the following applies: • Integrated suppressor circuit in actuating electronics For DILMC7-01 – DILMC32-01 the following applies: • With mirror contact. |
| DILA-XHIC(V).. | **DILMC7-01(230V50HZ)** 277421 | | **DILMC7-01(24VDC)** 277436 | | | |
| DILM32-XHIC.. DILA-XHIC(V).. | **DILMC9-10(230V50HZ)** 277453 | | **DILMC9-10(24VDC)** 277468 | | | |
| DILA-XHIC(V).. | **DILMC9-01(230V50HZ)** 277485 | | **DILMC9-01(24VDC)** 277500 | | | |
| DILM32-XHIC.. DILA-XHIC(V).. | **DILMC12-10(230V50HZ)** 277517 | | **DILMC12-10(24VDC)** 277532 | | | |
| DILA-XHIC(V).. | **DILMC12-01(230V50HZ)** 277549 | | **DILMC12-01(24VDC)** 277564 | | | |
| DILM32-XHIC… DILA-XHIC(V)… | **DILMC15-10(230V50HZ)** 293911 | | **DILMC15-10(24VDC)** 293926 | | | |
| DILA-XHIC(V)… | **DILMC15-01(230V50HZ)** 293946 | | **DILMC15-01(24VDC)** 293961 | | | |
| DILM32-XHIC.. DILA-XHIC(V).. | **DILMC17-10(230V50HZ)** 277581 | | **DILMC17-10(RDC24)** 277595 | | 1 off | |
| DILA-XHIC(V).. | **DILMC17-01(230V50HZ** 277611 | | **DILMC17-01(RDC24)** 277625 | | | |
| DILM32-XHIC.. DILA-XHIC(V).. | **DILMC25-10(230V50HZ)** 277641 | | **DILMC25-10(RDC24)** 277655 | | | |
| DILA-XHIC(V).. | **DILMC25-01(230V50HZ)** 277671 | | **DILMC25-01(RDC24)** 277685 | | | |
| DILM32-XHIC.. DILA-XHIC(V).. | **DILMC32-10(230V50HZ)** 277701 | | **DILMC32-10(RDC24)** 277715 | | | |
| DILA-XHIC(V).. | **DILMC32-01(230V50HZ)** 277731 | | **DILMC32-01(RDC24)** 277745 | | | |
| DILM150-XHIC(V).. DILM1000-XHIC.. | **DILMC40(230V50HZ)** 277965 | | **DILMC40(RDC24)** 277979 | | | |
| | **DILMC50(230V50HZ)** 277995 | | **DILMC50(RDC24)** 278009 | | | |
| | **DILMC65(230V50HZ)** 278025 | | **DILMC65(RDC24)** 278039 | | | |
| | **DILMC80(230V50HZ)** 239618 | | **DILMC80(RDC24)** 239652 | | | |
| | **DILMC95(230V50HZ)** 239685 | | **DILMC95(RDC24)** 239715 | | | |
| | **DILMC115(RAC240)** 239736 | | **DILMC115(RDC24)** 239741 | | | |
| | **DILMC150(RAC240)** 239751 | | **DILMC150(RDC24)** 239765 | | | |




| **Accessories** | **Page** |
|---|---|
| 1 Overload relay | → Chapter 6 |
| 2 Suppressor | → 5/54 |
| 3 Auxiliary contact module | → 5/38 |
| Further actuating voltages | → 5/77 |
| Accessories | → 5/56 |

**Information relevant for export to North America**

| | |
|---|---|
| Product Standards | IEC/EN 60947-4-1; UL 5080; CSA-C22.2 No. 14-05; CE marking |
| UL File No. | E29096 |
| UL CCN | NLDX |
| CSA File No. | 012528 |
| CSA Class No. | 2411-03, 3211-04 |
| NA Certification | UL Listed, CSA certified |
| See also | → Page 5/84 |

| | Rated operational current AC-3 | Max. motor rating for three-phase motors 50 - 60 Hz AC-3 | | | AC-4 | | | Conventional free air thermal current $I_{th} = I_e$ AC-1 at 60 °C | Contact | | Circuit symbol |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **380 V** **400 V** | 220 V 230 V | **380 V** **400 V** | 660 V 690 V | 220 V 230 V | **380 V** **400 V** | 660 V 690 V | Open | Contact configuration: ⊖ = Safety function by positive opening according to IEC/EN 60947-5-1 | | |
| | $I_e$ | P | **P** | P | P | **P** | P | $I_{th} = I_e$ | N/O = normally open contact | NC = normally closed contact | |
| | **A** | kW | **kW** | kW | kW | **kW** | kW | A | | | |
| **DILM complete device** | | | | | | | | | | | |
| Screw terminals | | | | | | | | | | | |
|  | **7** | 2.2 | **3** | 3.5 | 1 | **2.2** | 2.9 | 20 | 2 N/O | 1 NC |  |
| | **7** | 2.2 | **3** | 3.5 | 1 | **2.2** | 2.9 | 20 | 1 NC | |  |
| | **7** | 2.2 | **3** | 3.5 | 1 | **2.2** | 2.9 | 20 | 3 N/O | 2 NC |  |
| | **9** | 2.5 | **4** | 4.5 | 1.5 | **2.5** | 3.6 | 20 | 2 N/O | 1 NC |  |
| | **9** | 2.5 | **4** | 4.5 | 1.5 | **2.5** | 3.6 | 20 | 1 NC | |  |
| | **9** | 2.5 | **4** | 4.5 | 1.5 | **2.5** | 3.6 | 20 | 3 N/O | 2 NC |  |
| | **12** | 3.5 | **5.5** | 6.5 | 2 | **3** | 4.4 | 20 | 2 N/O | 1 NC |  |
| | **12** | 3.5 | **5.5** | 6.5 | 2 | **3** | 4.4 | 20 | 1 NC | |  |
| | **12** | 3.5 | **5.5** | 6.5 | 2 | **3** | 4.4 | 20 | 3 N/O | 2 NC |  |
| | **15.5** | 4 | **7.5** | 7 | 2 | **3** | 4.4 | 20 | 2 N/O | 2 NC |  |
|  | **18** | 5 | **7.5** | 11 | 2.5 | **4.5** | 6.5 | 35 | 2 N/O | 1 NC |  |
| | **18** | 5 | **7.5** | 11 | 2.5 | **4.5** | 6.5 | 35 | 1 NC | |  |
| | **18** | 5 | **7.5** | 11 | 2.5 | **4.5** | 6.5 | 35 | 3 N/O | 2 NC |  |
| | **25** | 7.5 | **11** | 14 | 3.5 | **6** | 8.5 | 40 | 2 N/O | 1 NC |  |
| | **25** | 7.5 | **11** | 14 | 3.5 | **6** | 8.5 | 40 | 1 NC | |  |
| | **25** | 7.5 | **11** | 14 | 3.5 | **6** | 8.5 | 40 | 3 N/O | 2 NC |  |
| | **32** | 10 | **15** | 17 | 4 | **7** | 10 | 40 | 2 N/O | 1 NC |  |
| | **32** | 10 | **15** | 17 | 4 | **7** | 10 | 40 | 1 NC | |  |
| | **32** | 10 | **15** | 17 | 4 | **7** | 10 | 40 | 3 N/O | 2 NC |  |

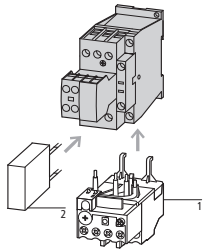
**Information relevant for export to North America**

| | |
|---|---|
| Product Standards | IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking |
| UL File No. | E29096 |
| UL CCN | NLDX |
| CSA File No. | 012528 |
| CSA Class No. | 2411-03, 3211-04 |
| NA Certification | UL Listed, CSA certified |
| See also | → Page 5/84 |





| **AC operation** **Part no.** Article no. | **Price** See price list | **DC operation** **Part no.** Article no. | **Price** See price list | Std. pack | **Notes** |
|---|---|---|---|---|---|
| **DILM7-21(230V50HZ)** 276620 | | **DILM7-21(24VDC)** 276635 | | 1 off | |
| **DILM7-22(230V50HZ)** 106360 | | **DILM7-22(24VDC)** 106367 | | | |
| **DILM7-32(230V50HZ)** 276655 | | **DILM7-32(24VDC)** 276670 | | | |
| **DILM9-21(230V50HZ)** 276760 | | **DILM9-21(24VDC)** 276775 | | | |
| **DILM9-22(230V50HZ)** 106361 | | **DILM9-22(24VDC)** 106368 | | | |
| **DILM9-32(230V50HZ)** 276795 | | **DILM9-32(24VDC)** 276810 | | | |
| **DILM12-21(230V50HZ)** 276900 | | **DILM12-21(24VDC)** 276915 | | | |
| **DILM12-22(230V50HZ)** 106362 | | **DILM12-22(24VDC)** 106369 | | | |
| **DILM12-32(230V50HZ)** 276935 | | **DILM12-32(24VDC)** 276950 | | | |
| **DILM15-22(230V50HZ)** 106363 | | **DILM15-22(24VDC)** 106370 | | | |
| **DILM17-21(230V50HZ)** 277068 | | **DILM17-21(RDC24)** 277082 | | | |
| **DILM17-22(230V50HZ)** 106364 | | **DILM17-22(RDC24)** 106371 | | | |
| **DILM17-32(230V50HZ)** 277100 | | **DILM17-32(RDC24)** 277114 | | | |
| **DILM25-21(230V50HZ)** 277196 | | **DILM25-21(RDC24)** 277210 | | | |
| **DILM25-22(230V50HZ)** 106365 | | **DILM25-22(RDC24)** 106372 | | | |
| **DILM25-32(230V50HZ)** 277228 | | **DILM25-32(RDC24)** 277242 | | | |
| **DILM32-21(230V50HZ)** 277324 | | **DILM32-21(RDC24)** 277338 | | | |
| **DILM32-22(230V50HZ)** 106366 | | **DILM32-22(RDC24)** 106373 | | | |
| **DILM32-32(230V50HZ)** 277356 | | **DILM32-32(RDC24)** 277370 | | | |




| **Accessories** | **Page** |
|---|---|
| 1 Overload relay | → Chapter 6 |
| 2 Suppressor | → 5/54 |
| Accessories | → 5/56 |

For all DC operated contactors DILM7 - DILM15 the following applies:
- Integrated varistor suppressor circuit.

For DC operated contactors DILM17 - DILM170 the following applies:
- Integrated suppressor circuit in actuating electronics

For AC operated contactors DILM115 - DILM170 the following applies:
- Integrated suppressor circuit in actuating electronics

For DILM7 - DILM150 the following applies:
- With mirror contact.

Contacts to EN 50012

| Rated operational current AC-3 | Max. motor rating for three-phase motors 50 - 60 Hz AC-3 | | | AC-4 | | | Conventional free air thermal current $I_{th} = I_e$ AC-1 at 60 °C | Contact | | Circuit symbol |
|---|---|---|---|---|---|---|---|---|---|---|
| **380 V** **400 V** | 220 V 230 V | **380 V** **400 V** | 660 V 690 V | 220 V 230 V | **380 V** **400 V** | 660 V 690 V | Open | Contact configuration: ⊖ = Safety function by positive opening according to IEC/EN 60947-5-1 | | |
| $I_e$ | P | **P** | P | P | **P** | P | $I_{th} = I_e$ | N/O = normally open contact | NC = normally closed contact | |
| **A** | kW | **kW** | kW | kW | **kW** | kW | A | | | |
| **DILM complete device** | | | | | | | | | | |
| Screw terminals | | | | | | | | | | |
| **40** | 12.5 | **18.5** | 23 | 5 | **9** | 12 | 50 | 2 N/O | 2 NC | |
| **50** | 15.5 | **22** | 30 | 6 | **10** | 14 | 65 | 2 N/O | 2 NC | |
| **65** | 20 | **30** | 35 | 7 | **12** | 17 | 80 | 2 N/O | 2 NC | |
| **80** | 25 | **37** | 63 | 12 | **20** | 26 | 90 | 2 N/O | 2 NC | |
| **95** | 30 | **45** | 75 | 16 | **26** | 35 | 110 | 2 N/O | 2 NC | |
| **115** | 37 | **55** | 90 | 17 | **28** | 43 | 130 | 2 N/O | 2 NC | |
| **150** | 48 | **75** | 96 | 20 | **34** | 48 | 160 | 2 N/O | 2 NC | |

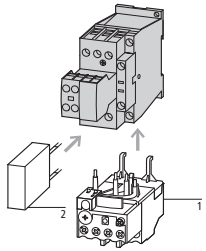
**Information relevant for export to North America**

| | |
|---|---|
| Product Standards | IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking |
| UL File No. | E29096 |
| UL CCN | NLDX |
| CSA File No. | 012528 |
| CSA Class No. | 2411-03, 3211-04 |
| NA Certification | UL Listed, CSA certified |
| See also | → Page 5/84 |





| AC operation Part no. Article no. | Price See price list | DC operation Part no. Article no. | Price See price list | Std. pack | Notes |
|---|---|---|---|---|---|
| **DILM40-22(230V50HZ)** 277798 | | **DILM40-22(RDC24)** 277812 | | 1 off | |
| **DILM50-22(230V50HZ)** 277862 | | **DILM50-22(RDC24)** 277876 | | | |
| **DILM65-22(230V50HZ)** 277926 | | **DILM65-22(RDC24)** 277940 | | | |
| **DILM80-22(230V50HZ)** 239449 | | **DILM80-22(RDC24)** 239463 | | | |
| **DILM95-22(230V50HZ)** 239527 | | **DILM95-22(RDC24)** 239541 | | | |
| **DILM115-22(RAC240)** 239578 | | **DILM115-22(RDC24)** 239581 | | | |
| **DILM150-22(RAC240)** 239598 | | **DILM150-22(RDC24)** 239601 | | | |




| Accessories | Page |
|---|---|
| 1 Overload relay | → Chapter 6 |
| 2 Suppressor | → 5/54 |
| Accessories | → 5/56 |

For DC operated contactors DILM17 - DILM170 the following applies:
- Integrated suppressor circuit in actuating electronics

For AC operated contactors DILM115 - DILM170 the following applies:
- Integrated suppressor circuit in actuating electronics

For DILM7 - DILM150 the following applies:
- With mirror contact.

Contacts to EN 50012

| Pole | Rated operational current AC-3 | Max. motor rating, three-phase motors, 50 - 60 Hz AC-3 | | | AC-4 | | | Conventional thermal current $I_{th} = I_e$ AC-1 at 60 °C | Contact | | Circuit symbol |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **380 V 400 V** | 220 V 230 V | **380 V 400 V** | 660 V 690 V | 220 V 230 V | **380 V 400 V** | 660 V 690 V | Open | Contact configuration: ⊖ = Safety function by positive opening according to IEC/EN 60947-5-1 | | |
| | $I_e$ | P | **P** | P | P | **P** | P | $I_{th} = I_e$ | N/O = normally open contact | NC = normally closed contact | |
| | **A** | kW | **kW** | kW | kW | **kW** | kW | A | | | |
| **Basic device** | | | | | | | | | | | |
| Screw terminals | | | | | | | | | | | |
| 3 pole | **7** | 2.2 | **3** | 3.5 | 1 | **2.2** | 2.9 | 20 | 1 N/O | – | |
| | **7** | 2.2 | **3** | 3.5 | 1 | **2.2** | 2.9 | 20 | – | 1 NC | |
| | **9** | 2.5 | **4** | 4.5 | 1.5 | **2.5** | 3.6 | 20 | 1 N/O | – | |
| | **9** | 2.5 | **4** | 4.5 | 1.5 | **2.5** | 3.6 | 20 | – | 1 NC | |
| | **12** | 3.5 | **5.5** | 6.5 | 2 | **3** | 4.4 | 20 | 1 N/O | – | |
| | **12** | 3.5 | **5.5** | 6.5 | 2 | **3** | 4.4 | 20 | – | 1 NC | |
| | **18** | 5 | **7.5** | 11 | 2.5 | **4.5** | 6.5 | 35 | 1 N/O | – | |
| | **18** | 5 | **7.5** | 11 | 2.5 | **4.5** | 6.5 | 35 | – | 1 NC | |
| | **25** | 7.5 | **11** | 14 | 3.5 | **6** | 8.5 | 40 | – | 1 NC | |
| | **25** | 7.5 | **11** | 14 | 3.5 | **6** | 8.5 | 40 | 1 N/O | – | |
| | **32** | 10 | **15** | 17 | 4 | **7** | 10 | 40 | 1 N/O | – | |
| | **32** | 10 | **15** | 17 | 4 | **7** | 10 | 40 | – | 1 NC | |
| 3 pole | **40** | 12.5 | **18.5** | 23 | 5 | **9** | 12 | 50 | – | – | |
| | **50** | 15.5 | **22** | 30 | 6 | **10** | 14 | 65 | – | – | |
| | **65** | 20 | **30** | 35 | 7 | **12** | 17 | 80 | – | – | |
| 3 pole | **80** | 25 | **37** | 63 | 12 | **20** | 26 | 90 | – | – | |
| | **95** | 30 | **45** | 75 | 16 | **26** | 35 | 110 | – | – | |
| | **115** | 37 | **55** | 90 | 17 | **28** | 43 | 130 | – | – | |
| | **150** | 48 | **75** | 96 | 20 | **33** | 48 | 160 | – | – | |

[2] **Information relevant for export to North America**

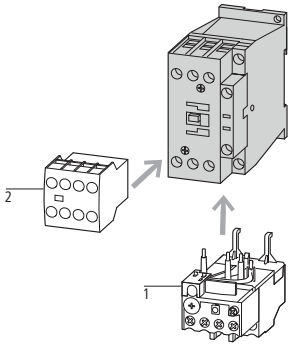
| | |
|---|---|
| Product Standards | IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking |
| UL File No. | E29096 |
| UL CCN | NLDX |
| CSA File No. | 012528 |
| CSA Class No. | 2411-03, 3211-04 |
| NA Certification | UL Listed, CSA certified |
| See also | → Page 5/84 |



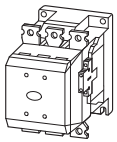
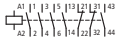
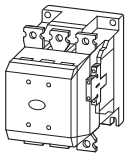
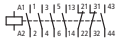
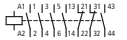
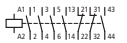


**AC operation**

| **Part no.** Article no. | **Price** See price list | Std. pack | **Notes** |
|---|---|---|---|
| **DILMF8-10(RAC240)** 104413 | | 1 off | Contactors suitable for semi-conductor industry according to SEMI F47. Contactors hum-free, suitable for building services automation. Operating mechanism adjustable from 50 Hz to 400 Hz. For all contactors the following applies: • Integrated suppressor circuit For DILMF8-01 – DILMF32-01 the following applies: • With mirror contact. Contacts to EN 50 012. |
| **DILMF8-01(RAC240)** 104417 | | | |
| **DILMF11-10(RAC240)** 104421 | | | |
| **DILMF11-01(RAC240)** 104425 | | | |
| **DILMF14-10(RAC240)** 104429 | | | |
| **DILMF14-01(RAC240)** 104433 | | | |
| **DILMF17-10(RAC240)** 104437 | | | |
| **DILMF17-01(RAC240)** 104441 | | | |
| **DILMF25-01(RAC240)** 104449 | | | |
| **DILMF25-10(RAC240)** 104445 | | | |
| **DILMF32-10(RAC240)** 104453 | | | |
| **DILMF32-01(RAC240)** 104457 | | | |
| **DILMF40(RAC240)** 104461 | | | |
| **DILMF50(RAC240)** 104465 | | | |
| **DILMF65(RAC240)** 104469 | | | |
| **DILMF80(RAC240)** 104473 | | | |
| **DILMF95(RAC240)** 104477 | | | |
| **DILMF115(RAC240)** 104481 | | | |
| **DILMF150(RAC240)** 104485 | | | |




| **Accessories** | **Page** |
|---|---|
| 1 Overload relay | → Chapter 6 |
| 2 Auxiliary contact modules | → 5/38 |
| Further actuating voltages | → 5/80 |
| Accessories | → 5/56 |

| | Rated operational current | Max. motor rating for three-phase motors 50 - 60 Hz | | | | | | Conventional thermal current $I_{th} = I_e$ AC-1 at 40 °C | Circuit symbol | For use with |
|---|---|---|---|---|---|---|---|---|---|---|
| | **AC-3** | AC-3 | | | AC-4 | | | Open | | |
| | **380 V** **400 V** | 220 V 230 V | **380 V** **400 V** | 660 V 690 V | 220 V 230 V | **380 V** **400 V** | 660 V 690 V | $I_{th} = I_e$ | | |
| | $I_e$ | P | **P** | P | P | **P** | P | A | | |
| | **A** | kW | **kW** | kW | kW | **kW** | kW | | | |
| **Standard device for currents greater than 150 A** | | | | | | | | | | |
| DILM complete device | | | | | | | | | | |
|  | **250** | 75 | **132** | 240 | 62 | **110** | 189 | 400 |  | DILM820-XHI... |
| | **300** | 90 | **160** | 195 | 75 | **132** | 160 | 430 |  | DILM820-XHI... |
|  | **400** | 125 | **200** | 344 | 92 | **160** | 283 | 612 |  | DILM820-XHI... |
| | **500** | 155 | **250** | 344 | 112 | **200** | 344 | 857 |  | DILM820-XHI... |
| | **580** | 185 | **315** | 344 | 112 | **200** | 344 | 920 |  | DILM820-XHI... |

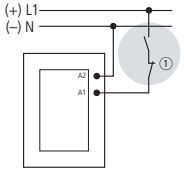
| **Part no.** Article no. | **Price** See price list | Std. pack | **Information relevant for export to North America** | |
|---|---|---|---|---|
| **DILM250-S/22(220-240V50/60HZ)** 274190 | | 1 off | Product Standards<br>UL File No.<br>UL CCN<br>CSA File No.<br>CSA Class No.<br>NA Certification | IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking<br>E29096<br>NLDX<br>1017510<br>3211-04<br>UL Listed, CSA certified |
| **DILM300A-S/22(220-240V50/60HZ)**[1] 139559 | | 1 off | Request filed for UL and CSA | |
| **DILM400-S/22(220-240V50/60HZ)** 274196 | | 1 off | Product Standards<br>UL File No.<br>UL CCN<br>CSA File No.<br>CSA Class No.<br>NA Certification<br>See also | IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking<br>E29096<br>NLDX<br>012528<br>3211-04<br>UL Listed, CSA certified<br>Additional approvals, → Page 5/86 |
| **DILM500-S/22(220-240V50/60HZ)** 274199 | | | | |
| **DILM570-S/22(220-240V50/60HZ)** 110744 | | | | |

**Notes**

[1] Availability from August 2010.
Previous DILM300/22, see Online Catalog at http://ecat.moeller.net

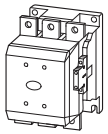
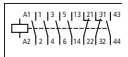
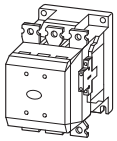
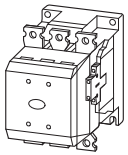
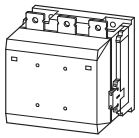
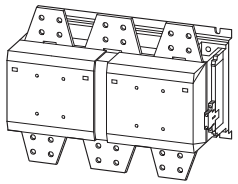
For all contactors the following applies:
- 660 V, 690 V or 1000 V: do not reverse directly
- Integrated suppressor circuit in actuating electronics.

DILM...-S contactors are actuated conventionally




① Stopping in the event of an emergency (emergency switching off)

| **Accessories** | **Page** |
|---|---|
| Auxiliary contact modules | → 5/40 |
| Enclosures totally insulated | |
| Further actuating voltages | → 5/81 |

| | Rated operational current | Max. motor rating for three-phase motors 50 - 60 Hz | | | | | | | | Conventional thermal current $I_{th} = I_e$ AC-1 at 60 °C | Circuit symbol |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | AC-3 | AC-3 | | | | AC-4 | | | | Open | |
| | **380 V 400 V** | 220 V 230 V | **380 V 400 V** | 660 V 690 V | 1000 V | 220 V 230 V | **380 V 400 V** | 660 V 690 V | 1000 V | $I_{th} = I_e$ | |
| | **Ie** | P | **P** | P | P | P | **P** | P | P | A | |
| | **A** | kW | **kW** | kW | kW | kW | **kW** | kW | kW | | |
| **Contactors, comfort DILM** | | | | | | | | | | | |
|  | **185** | 55 | **90** | 140 | 108 | 41 | **75** | 102 | 77 | 275 |  |
| | **225** | 70 | **110** | 150 | 108 | 51 | **90** | 110 | 77 | 315 | |
|  | **250** | 75 | **132** | 195 | 108 | 62 | **110** | 160 | 109 | 330 |  |
| | **300** | 90 | **160** | 195 | 132 | 75 | **132** | 160 | 109 | 350 | |
|  | **400** | 125 | **200** | 344 | 132 | 92 | **160** | 283 | 132 | 500 | |
| | **500** | 155 | **250** | 344 | 132 | 112 | **200** | 344 | 132 | 700 | |
|  | **580** | 185 | **315** | 560 | 600 | 143 | **250** | 440 | 509 | 800 | |
| | **650** | 205 | **355** | 630 | 600 | 161 | **280** | 494 | 509 | 850 | |
| | **750** | 240 | **400** | 720 | 800 | 181 | **315** | 556 | 678 | 900 | |
| | **820** | 260 | **450** | 750 | 800 | 209 | **355** | 633 | 678 | 1000 | |
| | **1000** | 315 | **560** | 1000 | 1100 | 260 | **450** | 780 | 1000 | 1000 | |
|  | **1600** | 500 | **900** | 1600 | 1770 | 430 | **750** | 1300 | 1650 | 1800 |  |

**Notes**

[1] Availability from August 2010.
Previous DILM185/22 to DILM300/22, see Online Catalog at http://ecat.moeller.net

For all contactors the following applies:
- 660 V, 690 V or 1000 V: do not reverse directly
- Integrated suppressor circuit in actuating electronics.

When operating contactors DILM580 to DILM1600 behind a frequency inverter or mains with strong harmonic loads, the suppressor circuit on the load side must be removed.

During high-voltage tests, the suppressor circuit on the load-side for DILM580 to DILH2600 contactors must be disconnected (see instructional leaflet).

Control voltages

RA250 ≙ 110 V - 250 V AC/DC

RAW250 ≙ 230 V - 250 V AC/DC

| **Accessories** | **Page** |
|---|---|
| Auxiliary contact modules | → 5/40 |
| Suppressor circuits on load side | → 5/65 |
| Enclosures totally insulated | |
| Further actuating voltages | → 5/76 |

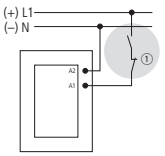




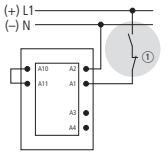
| **Part no.** | **Price** See price list | Std. pack | Notes |
|---|---|---|---|
| **DILM185A/22(RAC240)**[1] 139537 | | 1 off | |
| **DILM225A/22(RAC240)**[1] 139547 | | | |
| **DILM250/22(RA250)**[2] 208201 | | | |
| **DILM300A/22(RA250)**[1] [2] 139556 | | | |
| **DILM400/22(RA250)**[3] 208209 | | | |
| **DILM500/22(RA250)**[3] 208213 | | | |
| **DILM580/22(RA250)**[3] 208216 | | | |
| **DILM650/22(RA250)**[3] 208219 | | | |
| **DILM750/22(RA250)**[3] 208222 | | | |
| **DILM820/22(RA250)**[3] 208225 | | | |
| **DILM1000/22(RA250)**[3] 267214 | | | |
| **DILM1600/22(RAW250)**[3] 106727 | | | |

**Conventional**
A1/A2 are attached to power supply as normal

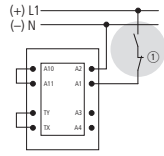
DILM 185 A, DILM 225 A




DILM250 to DILM1000, DILH1400

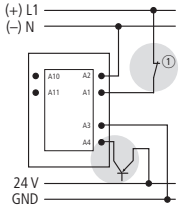


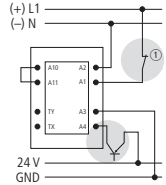

DILM1600 to DILH 2600



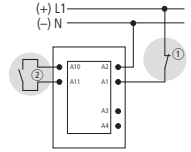

**Directly from the PLC**
A 24 V output from the PLC can be directly connected to the terminals A4/A24.

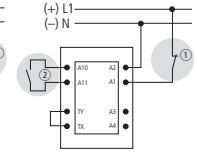





**From a low-power command device**
Low-power actuating devices such as PCB relays, pilot devices or position switches can be directly connected to A10/A11.




① Stopping in the event of an emergency (emergency switching off)
② Max. cable capacitance 6 nF

**Information relevant for export to North America**

[1]

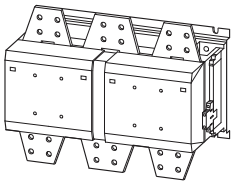
| | |
|---|---|
| NA Certification | Request filed for UL and CSA |

[2]

| | |
|---|---|
| Product Standards | IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking |
| UL File No. | E29096 |
| UL CCN | NLDX |
| CSA File No. | 1017510 |
| CSA Class No. | 3211-04 |
| NA Certification | UL Listed, CSA certified |

[3]

| | |
|---|---|
| Product Standards | IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking |
| UL File No. | E29096 |
| UL CCN | NLDX |
| CSA File No. | 012528 |
| CSA Class No. | 3211-04 |
| NA Certification | UL Listed, CSA certified |
| See also | Additional approvals → Page 5/86 |

| | Conventional thermal current $I_{th} = I_e$ AC-1 at 60 °C | Circuit symbol | **Part no.** | **Price** See price list | Std. pack |
|---|---|---|---|---|---|
| | Open | | | | |
| | $I_{th} = I_e$ | | | | |
| | A | | | | |
| **DILH comfort devices AC-1** | | | | | |
|  | 1400 |  | **DILH1400/22(RAW250)**[1] 272441 | | 1 off |
| | 2000 | | **DILH2000/22(RAW250)**[1] 272442 | | |
| | 2200 | | **DILH2200/22(RAW250)**[1] 111793 | | |
| | 2600 | | **DILH2600/22(RAW250)**[2] 125945 | | |

**Notes**

For all contactors the following applies:
- 660 V, 690 V or 1000 V: do not reverse directly
- Integrated suppressor circuit in actuating electronics.

When operating contactors DILM580 to DILM1600 behind a frequency inverter or mains with strong harmonic loads, the suppressor circuit on the load side must be removed.

During high-voltage tests, the suppressor circuit on the load-side for DILM580 to DILH2600 contactors must be disconnected (see instructional leaflet).

Control voltages

RAW250 ≙ 230 V - 250 V AC/DC

| **Accessories** | **Page** |
|---|---|
| Auxiliary contact modules | → 5/40 |
| Suppressor circuits on load side | → 5/65 |
| Enclosures totally insulated | |



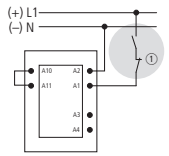


Notes

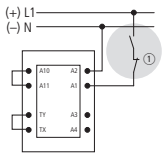
**Conventional**

A1/A2 are attached to power supply as normal

DILH1400



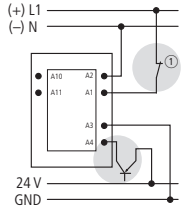

DILM1600 to DILH 2600

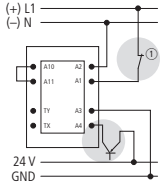



**Directly from the PLC**

A 24 V output from the PLC can be directly connected to the terminals A4/A24.

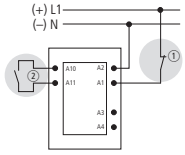


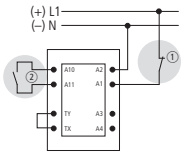



**From a low-power command device**

Low-power actuating devices such as PCB relays, pilot devices or position switches can be directly connected to A10/A11.




① Stopping in case of emergency (Emergency-stop)
② Max. cable capacitance 6 nF

**Information relevant for export to North America**

1)

| | |
|---|---|
| Product Standards | IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking |
| UL File No. | E29096 |
| UL CCN | NLDX |
| CSA File No. | 012528 |
| CSA Class No. | 3211-04 |
| NA Certification | UL Listed, CSA certified |

2)

| | |
|---|---|
| NA Certification | Request filed for UL and CSA |