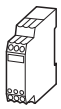
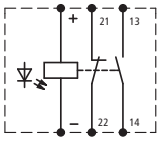
| Rated operational current AC-15 230 V $I_e$ A | Rated operational current AC-15 400 V $I_e$ A | Rated operational current DC 220 V $I_e$ A | Actuating voltage $U_s$ V DC | Actuating current I mA | Circuit symbol | For use with | **Part no.** | **Price** See price list | Std. pack | **Information relevant for export to North America** |
|---|---|---|---|---|---|---|---|---|---|---|

**Amplifier module for separate mounting**

Input with integrated suppressor circuit for overvoltage limitation



| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 2 | 2 | 0.03 | 24 | 25 |  | ...DILM<br>DIMLP...<br>DILL...<br>DILK... | **ETS4-VS3**<br>083094 | | 1 Off |

| | |
|---|---|
| Product Standards | IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking |
| UL File No. | E29184 |
| UL CCN | NKCR |
| CSA File No. | 012528 |
| CSA Class No. | 2411-03, 3211-04 |
| NA Certification | UL Listed, CSA certified |

**Notes** Contactor coils with rated operational current > 2 A must be actuated via the DILER-G mini contactor relay.
Rated operational current DC:
Making and breaking conditions DC-13, time L/R 300ms

**Individual coils**



| For use with | DC voltage **Part no.** Article no. | DC voltage **Prices** See price list | AC voltage **Part no.** Article no. | AC voltage **Price** See price list | Std. pack | **Notes** |
|---|---|---|---|---|---|---|
| DILM17<br>DILM25<br>DILM32<br>DILM38 | **DILM32-XSP(RDC24)**[1]<br>281155 | | **DILM32-XSP(230V50HZ,240V60HZ)**<br>281141 | | 1 Off | For additional actuating voltages → Page 5/79 |
| DILM40<br>DILM50<br>DILM65<br>DILM72 | **DILM65-XSP(RDC24)**[1]<br>281185 | | **DILM65-XSP(230V50HZ,240V60HZ)**<br>281171 | | | |
| DILM80<br>DILM95 | **DILM95-XSP(RDC24)**[1]<br>230080 | | **DILM95-XSP(230V50HZ,240V60HZ)**<br>230062 | | | |
| DILM115<br>DILM150<br>DILM170 | **DILM150-XSP(RDC24)**[1]<br>230115 | | **DILM150-XSP(RAC240)**[1]<br>230112 | | | |
| DILM185A<br>DILM225A | **DILM225A-XSP(RDC24)**[1]<br>139568 | | **DILM225A-XSP(RAC240)**[1]<br>139565 | | | |

**Notes** [1] Incl. electronic module

**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 |

| | For use with | DC voltage<br>**Part no.**<br>Article no. | **Price**<br>See price list | AC voltage<br>**Part no.**<br>Article no. | **Price**<br>See price list | Std. pack | **Notes** |
|---|---|---|---|---|---|---|---|
| **Electronic modules including coils** | | | | | | | |
|  | DILM250<br>DILM300A | **DILM250-XSP/E(RA250)**[1]<br>208252 | | **DILM250-XSP/E(RA250)**[1]<br>208252 | | 1 Off | For additional actuating voltages<br>→ Page 5/81 |
| | DILM400<br>DILM500 | **DILM500-XSP/E(RA250)**[1]<br>208256 | | **DILM500-XSP/E(RA250)**[1]<br>208256 | | | |
| | DILM580<br>DILM650<br>DILM750<br>DILM820<br>DILM1000 | **DILM1000-XSP/E(RA250)**[1]<br>289145 | | **DILM1000-XSP/E(RA250)**[1]<br>289145 | | | |
|  | DILH1400 | – | | **DILH1400-XSP/E(RAW250)**[2]<br>289161 | | | |
| | DILM250-S<br>DILM300A-S | – | | **DILM250-S-XSP/E(220-240V50/60HZ)**[2]<br>274202 | | | |
| | DILM400-S<br>DILM500-S | – | | **DILM500-S-XSP/E(220-240V50/60HZ)**[2]<br>274205 | | | |

1)

**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. | 1017510 |
| CSA Class No. | 3211-04 |
| NA Certification | UL Listed, CSA certified |

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. | 3211-04 |
| NA Certification | UL Listed, CSA certified |

**CMD** HPL05068EN

## Description, ordering



### General

For safety-related off switching to safety category 3 and 4 according to EN 954-1, at present two contactors must be used in series. Especially with larger contactors this is an expensive solution.

### Application

This is where the CMD can be used. The function of the CMD is to monitor the main contacts of a contactor against welding. For this the control voltage of the contactor is compared with the state of the main contacts which is reliably monitored using a mirror contact (IEC EN 60947-4-1 Annex F). If the coil is de-energized and the contactor does not drop out the CMD trips the upstream circuit-breaker/motor protective circuit breaker/switch-disconnector via a shunt release.

### Safety

The CMD has a safety-compliant design so that in safety combinations with a circuit-breaker/motor protective circuit breaker/switch disconnector the reliable switch off in the case of a "welded contactor" can be guaranteed. In this application it replaces the series connection of a second contactor. As a component it conforms to safety category 3 according to EN 954-1 and EN ISO 13849.

### Mounting

The CMD can be combined with the following Eaton components:

- Contactors:
  - DILEM
  - DILM7 to DILM150
  - DILM185(-S) to DILM500(-S):
  - DILM580 to DILM1600
  - DILH1400 … DILH2000
  - SE-1A-PKZ2 and S-PKZ2

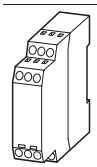
For the wiring of the CMD the auxiliary N/C contact, mirror contact must be according to IEC/EN 60947-4-1 and the auxiliary N/O contact must be interlocked and opposing according to IEC/EN 60947-5-1. Also the auxiliary N/C contact for the feedback circuit must have a mirror contact function according to IEC/EN 60947-4-1.

- Motor-protective circuit-breakers/ circuit-breakers:
  - PKZ2 + U-PKZ2(18VDC)
  - NZM1 + NZM1-XUVL
  - NZM2 + NZM2/3-XUV
  - NZM3 + NZM2/3-XUV
  - NZM4 + NZM4-XUV
  - N1 + NZM1-XUVL
  - N2 + NZM2/3-XUV
  - N3 + NZM2/3-XUV
  - N4 + NZM4-XUV

Auxiliary contact requirements per contactor:

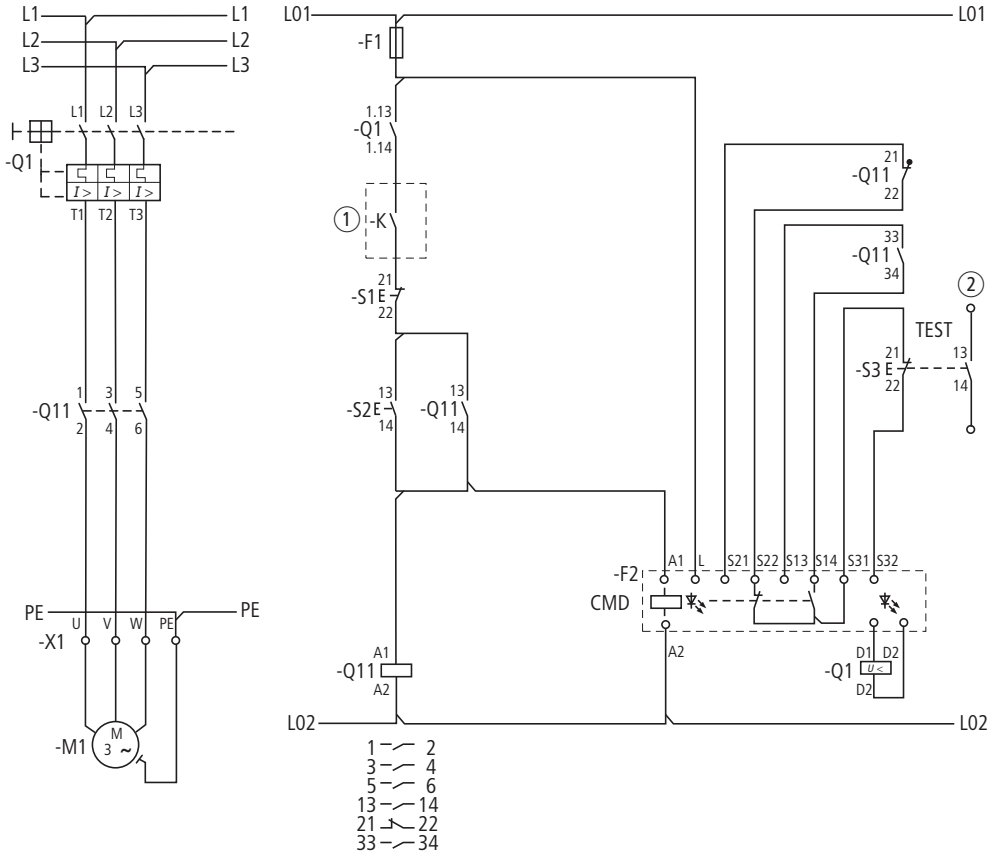
| | CMD | Self maintaining | Feedback circuit | Electrical interlock |
|---|---|---|---|---|
| DOL starter | 1 N/O + 1 N/C | 1S | 1 B | |
| Reversing starter | 1 N/O + 1 N/C | 1S | 1 B | 1 B |

## Ordering

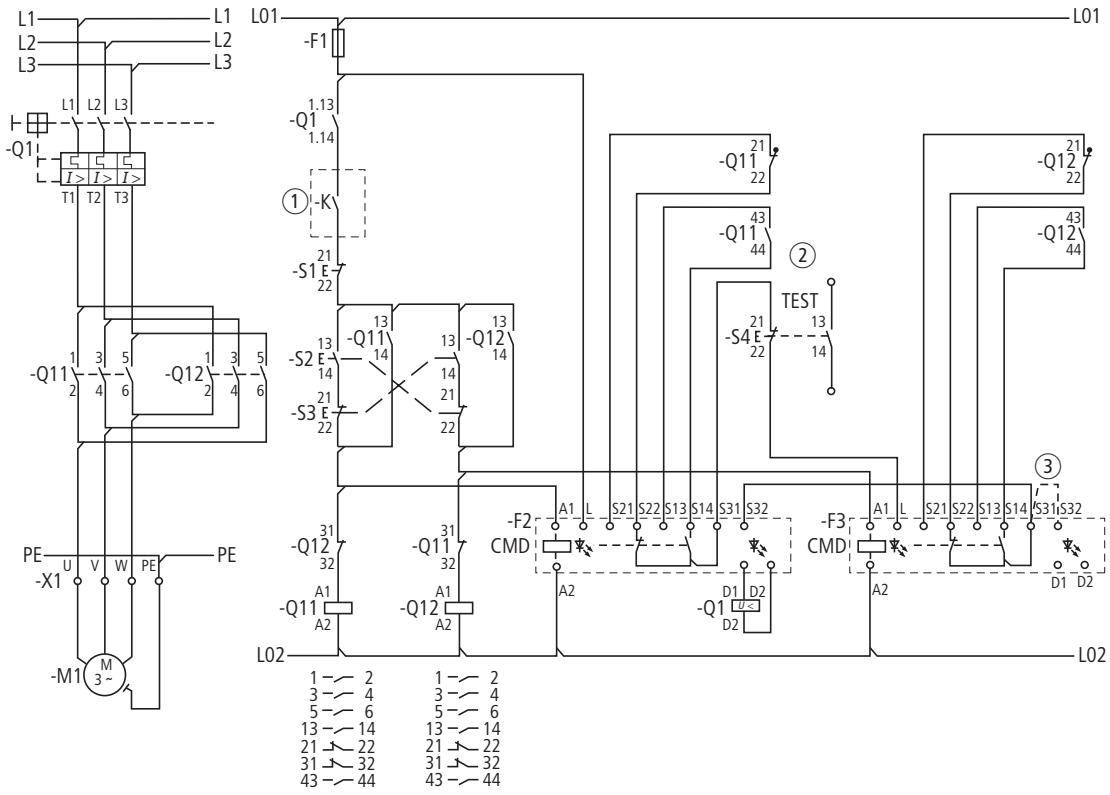
| | Part no. Article no. | Price See Price List | Std. pack |
|---|---|---|---|
| CMD contactor monitoring device | | | |
|  | **CMD(24VDC)** 106170 | | 1 Off |
| | **CMD(220-240VAC)** 106172 | | 1 Off |

## Engineering

### DOL starter




### Reversing starter




① Switching by safety relay of safety PLC
② Signal contact to PLC evaluation
③ CMD (24VDC)

## Ordering

| AC | DILER-40(...) | DILER-31(...) | DILER-22(...) | DILEEM-10(...) | DILEEM-01(...) |
|---|---|---|---|---|---|
| | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] |
| **Standard voltages** | See price list | See price list | See price list | See price list | See price list |
| **24V 50Hz** | 010094 | 010251 | 010344 | 051604 | 051629 |
| **48V 50Hz** | 010190 | 010044 | 010201 | 051603 | 051628 |
| **240V 50Hz** | 010478 | 010300 | 010138 | 051602 | 051627 |
| **115V 60Hz** | 010270 | 010204 | 010211 | 051598 | 051624 |
| **42V 50Hz, 48V 60Hz** | – | – | – | 051612 | 051637 |
| **110V 50Hz, 120V 60Hz** | 051756 | 051765 | 051774 | 051611 | 051636 |
| **190V 50Hz, 220V 60Hz** | 051757 | 051766 | 051775 | 051610 | 051635 |
| **220V 50Hz, 240V 60Hz** | 051758 | 051767 | 051776 | 051609 | 051634 |
| **230V 50Hz, 240V 60Hz** | 051759 | 051768 | 051777 | 051608 | 051633 |
| **380V 50Hz, 440V 60Hz** | 051760 | 051769 | 051778 | 051607 | 051632 |
| **400V 50Hz, 440V 60Hz** | 051761 | 051770 | 051779 | 051606 | 051631 |
| **415V 50Hz, 480V 60Hz** | 051762 | 051771 | 051780 | 051605 | 051630 |
| **24V 50/60Hz** | 021924 | 021594 | 021704 | 051596 | 051621 |
| **42V 50/60Hz** | 033459 | 029869 | 029433 | 051595 | 051620 |
| **110V 50/60Hz** | 021961 | 021624 | 021871 | 051592 | 051618 |
| **230V 50/60Hz** | 052725 | 052509 | 052508 | 056674 | 058771 |
| **DC** | **DILER-40-G(...)** | **DILER-31-G(...)** | **DILER-22-G(...)** | **DILEEM-10-G(...)** | **DILEEM-01-G(...)** |
| | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] |
| **Standard voltages** | See price list | See price list | See price list | See price list | See price list |
| **12V DC** | 079711 | 079761 | 080728 | 051644 | 051649 |
| **24V DC** | 010223 | 010157 | 010042 | 051643 | 051650 |
| **48V DC** | 010255 | 010205 | 010346 | 051642 | 051648 |
| **110V DC** | 010287 | 010253 | 010043 | 051640 | 051646 |
| **220V DC** | 010303 | 010269 | 010091 | 051639 | 051645 |

**Notes** [1] To obtain the article number for ordering, read under selected part number and actuating voltage from the table. Devices with dual-voltage coils are to be ordered under a single article number.

| **AC** | | **DILEM-10(...)** | **DILEM-01(...)** | **DILEM12-10(...)** | **DILEM12-01(...)** | **DILEM4(...)** |
|---|---|---|---|---|---|---|
| | | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] |
| **Standard voltages** | | See price list | See price list | See price list | See price list | See price list |
| **24V 50Hz** | | 010005 | 010086 | 127067 | 127083 | 014754 |
| **48V 50Hz** | | 010020 | 010294 | – | – | – |
| **240V 50Hz** | | 010032 | 010151 | – | – | 014305 |
| **115V 60Hz** | | 010024 | 010470 | – | – | – |
| **42V 50Hz, 48V 60Hz** | | 051782 | 051791 | – | – | – |
| **110V 50Hz, 120V 60Hz** | | 051783 | 051792 | 127072 | 127088 | 051801 |
| **190V 50Hz, 220V 60Hz** | | 051784 | 051793 | – | – | – |
| **220V 50Hz, 240V 60Hz** | | 051785 | 051794 | – | – | 051803 |
| **230V 50Hz, 240V 60Hz** | | 051786 | 051795 | – | – | 051804 |
| **380V 50Hz, 440V 60Hz** | | 051787 | 051796 | – | – | – |
| **400V 50Hz, 440V 60Hz** | | 051788 | 051797 | – | – | 051806 |
| **415V 50Hz, 480V 60Hz** | | 051789 | – | – | – | – |
| **24V 50/60Hz** | | 021417 | 020402 | 127079 | 127095 | 022044 |
| **42V 50/60Hz** | | 032174 | 033233 | – | – | – |
| **110V 50/60Hz** | | 021455 | 020436 | 127081 | 127097 | – |
| **230V 50/60Hz** | | 052302 | 051114 | 127082 | 127098 | 052506 |
| **DC** | | **DILEM-10-G(...)** | **DILEM-01-G(...)** | **DILEM12-10-G(...)** | **DILEEM12-01-G(...)** | **DILEM4-G(...)** |
| | | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] |
| **Standard voltages** | | See price list | See price list | See price list | See price list | See price list |
| **12V DC** | | 079594 | 079642 | – | – | 079680 |
| **24V DC** | | 010213 | 010343 | 127132 | 127137 | 012701 |
| **48V DC** | | 010245 | 010496 | – | – | – |
| **110V DC** | | 010309 | 010136 | – | – | – |
| **220V DC** | | 010325 | 010168 | – | – | – |

**Notes**

[1] To obtain the article number for ordering, read under selected part number and actuating voltage from the table. Devices with **dual-voltage coils** are to be ordered under a **single** article number.

## DILA

HPL05072EN



| AC | With screw terminals | | | With Spring-loaded terminals | | |
|---|---|---|---|---|---|---|
| | DILA-40(...) | DILA-31(...) | DILA-22(...) | DILAC-40(...) | DILAC-31(...) | DILAC-22(...) |
| | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] |
| **Standard voltages** | See price list | See price list | See price list | See price list | See price list | See price list |
| **24V 50Hz** | 276316 | 276351 | 276386 | 276431 | 276463 | 276495 |
| **240V 50Hz** | 276318 | 276353 | 276388 | – | – | – |
| **110V 50Hz<br>120V 60Hz** | 276326 | 276361 | 276396 | 276438 | 276470 | 276502 |
| **190V 50Hz<br>220V 60Hz** | 276327 | 276362 | 276397 | – | – | – |
| **220V 50Hz<br>240V 60Hz** | 276328 | 276363 | 276398 | – | – | – |
| **230V 50Hz<br>240V 60Hz** | 276329 | 276364 | 276399 | 276441 | 276473 | 276505 |
| **380V 50Hz<br>440V 60Hz** | 276330 | 276365 | 276400 | – | – | – |
| **400V 50Hz<br>440V 60Hz** | 276331 | 276366 | 276401 | – | – | – |
| **24V 50Hz/60Hz** | 276333 | 276368 | 276403 | 276445 | 276477 | 276509 |
| **42V 50Hz/60Hz** | 276334 | 276369 | 276404 | – | – | – |
| **110V 50Hz/60Hz** | 276335 | 276370 | 276405 | – | – | – |
| **220V 50Hz/60Hz** | 276336 | 276371 | 276406 | – | – | – |
| **230V 50Hz/60Hz** | 276337 | 276372 | 276407 | 276449 | 276481 | 276513 |
| Special voltages other than the already shown normal voltages [2] | See price list | See price list | See price list | See price list | See price list | See price list |
| **...V 50Hz(12-500V)[3]** | 276341 | 276376 | 276411 | 276453 | 276485 | 276517 |
| **...V 60Hz(12-600V)[3]** | 276342 | 276377 | 276412 | 276454 | 276486 | 276518 |
| **DC** | **With screw terminals** | | | **With Spring-loaded terminals** | | |
| | DILA-40(...) | DILA-31(...) | DILA-22(...) | DILAC-40(...) | DILAC-31(...) | DILAC-22(...) |
| | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] |
| **Standard voltages** | See price list | See price list | See price list | See price list | See price list | See price list |
| **24V DC** | 276344 | 276379 | 276414 | 276456 | 276488 | 276520 |
| **48V DC** | 276345 | 276380 | 276415 | – | – | – |
| **110V DC** | 276347 | 276382 | 276417 | 276459 | 276491 | 276523 |
| **220V DC** | 276348 | 276383 | 276418 | 276460 | 276492 | 276524 |
| Special voltages other than the already shown normal voltages [2] | See price list | See price list | See price list | See price list | See price list | See price list |
| **...V DC(12-250V)[3]** | 276349 | 276384 | 276419 | 276461 | 276493 | 276525 |

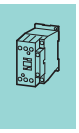
**Notes**

[1] The article number is a combination of part no. and operating voltage devices with dual-voltage coils can be ordered under a single article no.
[2] With non-standard voltages the required actuating voltage from the defined range (...–...V) must be stated.
[3] Minimum order quantity 10 units

| **AC** | **DILM7-10 (...)** | **DILM7-01 (...)** | **DILM9-10 (...)** | **DILM9-01 (...)** | **DILM12-10 (...)** | **DILM12-01 (...)** | **DILM15-10 (...)** | **DILM15-01 (...)** |
|---|---|---|---|---|---|---|---|---|
| | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] |
| **Standard voltages** | See price list | See price list | See price list | See price list | See price list | See price list | See price list | See price list |
| **24V 50Hz** | 276537 | 276572 | 276677 | 276712 | 276817 | 276852 | 290045 | 290080 |
| **240V 50Hz** | 276539 | 276574 | 276679 | 276714 | 276819 | 276854 | – | – |
| **42V 50Hz 48V 60Hz** | 276546 | – | 276686 | – | 276826 | – | – | – |
| **110V 50Hz 120V 60Hz** | 276547 | 276582 | 276687 | 276722 | 276827 | 276862 | 290055 | 290090 |
| **190V 50Hz 220V 60Hz** | 276548 | 276583 | 276688 | 276723 | 276828 | 276863 | – | – |
| **220V 50Hz 240V 60Hz** | 276549 | 276584 | 276689 | 276724 | 276829 | 276864 | – | – |
| **230V 50Hz 240V 60Hz** | 276550 | 276585 | 276690 | 276725 | 276830 | 276865 | 290058 | 290093 |
| **380V 50Hz 440V 60Hz** | 276551 | 276586 | 276691 | 276726 | 276831 | 276866 | – | – |
| **400V 50Hz 440V 60Hz** | 276552 | 276587 | 276692 | 276727 | 276832 | 276867 | – | – |
| **415V 50Hz 480V 60Hz** | 276553 | – | 276693 | – | 276833 | – | – | – |
| **24V 50Hz/60Hz** | 276554 | 276589 | 276694 | 276729 | 276834 | 276869 | 290062 | 290097 |
| **42V 50Hz/60Hz** | 276555 | 276590 | 276695 | 276730 | 276835 | 276870 | – | – |
| **110V 50Hz/60Hz** | 276556 | 276591 | 276696 | 276731 | 276836 | 276871 | – | – |
| **220V 50Hz/60Hz** | 276557 | 276592 | 276697 | 276732 | 276837 | 276872 | – | – |
| **230V 50Hz/60Hz** | 276558 | 276593 | 276698 | 276733 | 276838 | 276873 | 290066 | 290101 |
| Special voltages other than the already shown normal voltages [2] | See price list | See price list | See price list | See price list | See price list | See price list | See price list | See price list |
| **...V 50Hz** (12 – 600V) [3] | 276562 | 276597 | 276702 | 276737 | 276842 | 276877 | 290070 | 290105 |
| **...V 60Hz** (12 – 600V) [3] | 276563 | 276598 | 276703 | 276738 | 276843 | 276878 | 290071 | 290106 |
| **DC** | **DILM7-10 (...)** | **DILM7-01 (...)** | **DILM9-10 (...)** | **DILM9-01 (...)** | **DILM12-10 (...)** | **DILM12-01 (...)** | **DILM15-10 (...)** | **DILM15-01 (...)** |
| | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] |
| **Standard voltages** | See price list | See price list | See price list | See price list | See price list | See price list | See price list | See price list |
| **24V DC** | 276565 | 276600 | 276705 | 276740 | 276845 | 276880 | 290073 | 290108 |
| **48V DC** | 276566 | 276601 | 276706 | 276741 | 276846 | 276881 | – | – |
| **110V DC** | 276568 | 276603 | 276708 | 276743 | 276848 | 276883 | – | – |
| **220V DC** | 276569 | 276604 | 276709 | 276744 | 276849 | 276884 | – | – |
| Special voltages other than the already shown normal voltages[2] | See price list | See price list | See price list | See price list | See price list | See price list | See price list | See price list |
| **...V DC** (12-250V) [3] | 276570 | 276605 | 276710 | 276745 | 276850 | 276885 | 290078 | 290113 |

**Notes**

[1] To obtain the article number for ordering, read under selected part number and actuating voltage from the table. devices with dual-voltage coils can be ordered under a single article no.
[2] With non-standard voltages the required actuating voltage from the defined range (...–...V) must be stated.
[3] Minimum order quantity 10 units



| **AC** | | **DILM17-10 (...)** | **DILM17-01 (...)** | **DILM25-10 (...)** | **DILM25-01 (...)** | **DILM32-10 (...)** | **DILM32-01 (...)** | **DILM38-10(...)** | **DILM38-01(...)** |
|---|---|---|---|---|---|---|---|---|---|
| | | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] |
| **Standard voltages** | | See price list | See price list | See price list | See price list | See price list | See price list | See price list | See price list |
| **24V 50Hz** | | 276991 | 277023 | 277119 | 277151 | 277247 | 277279 | 112378 | 112446 |
| **240V 50Hz** | | 276993 | – | 277121 | – | 277249 | – | 112420 | – |
| **42V 50Hz 48V 60Hz** | | 277000 | – | 277128 | – | 277256 | – | 112424 | – |
| **110V 50Hz 120V 60Hz** | | 277001 | 277033 | 277129 | 277161 | 277257 | 277289 | 112425 | 112454 |
| **190V 50Hz 220V 60Hz** | | 277002 | – | 277130 | – | 277258 | – | 112426 | – |
| **220V 50Hz 240V 60Hz** | | 277003 | – | 277131 | – | 277259 | – | 112427 | – |
| **230V 50Hz 240V 60Hz** | | 277004 | 277036 | 277132 | 277164 | 277260 | 277292 | 112428 | 112457 |
| **380V 50Hz 440V 60Hz** | | 277005 | – | 277133 | – | 277261 | – | 112429 | – |
| **400V 50Hz 440V 60Hz** | | 277006 | 277038 | 277134 | 277166 | 277262 | 277294 | 112430 | 112459 |
| **415V 50Hz 480V 60Hz** | | 277007 | – | 277135 | – | 277263 | – | 112431 | – |
| **24V 50Hz/60Hz** | | 277008 | 277040 | 277136 | 277168 | 277264 | 277296 | 112432 | 112461 |
| **42V 50Hz/60Hz** | | 277009 | – | 277137 | – | 277265 | – | 112433 | – |
| **110V 50Hz/60Hz** | | 277010 | 277042 | 277138 | 277170 | 277266 | 277298 | 112434 | 112463 |
| **220V 50Hz/60Hz** | | 277011 | 277043 | 277139 | 277171 | 277267 | 277299 | 112435 | 112464 |
| **230V 50Hz/60Hz** | | 277012 | 277044 | 277140 | 277172 | 277268 | 277300 | 112436 | 112465 |
| Special voltages other than the already shown normal voltages [2] | | See price list | See price list | See price list | See price list | See price list | See price list | See price list | See price list |
| **...V 50Hz** (24 – 600V) | | 277016 [7] | 277048 [7] | 277144 [7] | 277176 [7] | 277272 [7] | 277304 [8] | 112440 [7] | 112468 [7] |
| **...V 60Hz** (24 – 600V) | | 277017 [7] | 277049 [7] | 277145 [7] | 277177 [7] | 277273 [7] | 277305 [8] | 112441 [7] | 112469 [7] |
| **DC** | | **DILM17-10(...)** | **DILM17-01(...)** | **DILM25-10(...)** | **DILM25-01(...)** | **DILM32-10(...)** | **DILM32-01(...)** | **DILM38-10(...)** | **DILM38-01(...)** |
| | | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] |
| **Standard voltages** | | See price list | See price list | See price list | See price list | See price list | See price list | See price list | See price list |
| **RDC 24** [3] | | 277018 | 277050 | 277146 | 277178 | 277274 | 277306 | 112442 | 112470 |
| **RDC 60** [4] | | 277019 | 277051 | 277147 | 277179 | 277275 | 277307 | 112443 | 112471 |
| **RDC 130** [5] | | 277020 | 277052 | 277148 | 277180 | 277276 | 277308 | 112444 | 112472 |
| **RDC 240** [6] | | 277021 | 277053 | 277149 | 277181 | 277277 | 277309 | 112445 | 112473 |

**Notes**

[1] To obtain the article number for ordering, read under selected part number and actuating voltage from the table. devices with dual-voltage coils can be ordered under a single article no.
[2] With non-standard voltages the required actuating voltage from the defined range (...–...V) must be stated.
[3] 24 – 27 V DC
[4] 48 – 60 V DC
[5] 110 – 130 V DC
[6] 200 – 240 V DC
[7] Minimum order quantity 10 units
[8] Minimum order quantity 5 units

| **AC** | | **DILM40(...)** | **DILM50(...)** | **DILM65(...)** | **DILM72(...)** |
|---|---|---|---|---|---|
| | | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] |
| **Standard voltages** | | See price list | See price list | See price list | See price list |
| **24V 50Hz** | | 277753 | 277817 | 277881 | – |
| **240V 50Hz** | | 277755 | 277819 | 277883 | 109183 |
| **42V 50Hz**<br>**48V 60Hz** | | 277762 | 277826 | 277890 | – |
| **110V 50Hz**<br>**120V 60Hz** | | 277763 | 277827 | 277891 | 109191 |
| **190V 50Hz**<br>**220V 60Hz** | | 277764 | 277828 | 277892 | – |
| **220V 50Hz**<br>**240V 60Hz** | | 277765 | 277829 | 277893 | – |
| **230V 50Hz**<br>**240V 60Hz** | | 277766 | 277830 | 277894 | 107670 |
| **380V 50Hz**<br>**440V 60Hz** | | 277767 | 277831 | 277895 | – |
| **400V 50Hz**<br>**440V 60Hz** | | 277768 | 277832 | 277896 | 109195 |
| **415V 50Hz**<br>**480V 60Hz** | | 277769 | 277833 | 277897 | – |
| **24V 50Hz/60Hz** | | 277770 | 277834 | 277898 | 109197 |
| **42V 50Hz/60Hz** | | 277771 | 277835 | 277899 | – |
| **110V 50Hz/60Hz** | | 277772 | 277836 | 277900 | 109199 |
| **220V 50Hz/60Hz** | | 277773 | 277837 | 277901 | 109200 |
| **230V 50Hz/60Hz** | | 277774 | 277838 | 277902 | 109201 |
| Special voltages other than the already shown normal voltages [2] | | See price list | See price list | See price list | See price list |
| **...V 50Hz** (24 – 600V) | | 277778 [8] | 277842 [8] | 277906 [8] | 109205 [7] |
| **...V 60Hz** (24 – 600V) | | 277779 [8] | 277843 [8] | 277907 [8] | 109206 [7] |
| **DC** | | **DILM40(...)** | **DILM50(...)** | **DILM65(...)** | **DILM72(...)** |
| | | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] |
| **Standard voltages** | | See price list | See price list | See price list | See price list |
| **RDC 24** [3] | | 277780 | 277844 | 277908 | 107671 |
| **RDC 60** [4] | | 277781 | 277845 | 277909 | – |
| **RDC 130** [5] | | 277782 | 277846 | 277910 | – |
| **RDC 240** [6] | | 277783 | 277847 | 277911 | 109209 |

**Notes**

1) To obtain the article number for ordering, read under selected part number and actuating voltage from the table.
devices with dual-voltage coils can be ordered under a single article no.
2) With non-standard voltages the required actuating voltage from the defined range (...–...V) must be stated.
3) 24 – 27 V DC
4) 48 – 60 V DC
5) 110 – 130 V DC
6) 200 – 240 V DC
7) Minimum order quantity 10 units

## DILM

HPL05076EN



| AC | | DILM80 (...) | DILM95 (...) |
|---|---|---|---|
| | | Article no.[1] | Article no.[1] |
| **Standard voltages** | | See price list | See price list |
| **24 V 50 Hz** | | 235904 | 239467 |
| **240V 50Hz** | | 235910 | 239469 |
| **42V 50Hz 48V 60Hz** | | 239394 | 239476 |
| **110V 50Hz 120V 60Hz** | | 239399 | 239477 |
| **190V 50Hz 220V 60Hz** | | 239400 | 239478 |
| **220V 50Hz 240V 60Hz** | | 239401 | 239479 |
| **230V 50Hz 240V 60Hz** | | 239402 | 239480 |
| **380V 50Hz 440V 60Hz** | | 239403 | 239481 |
| **400V 50Hz 440V 60Hz** | | 239404 | 239482 |
| **415V 50Hz 480V 60Hz** | | 239405 | 239483 |
| **24V 50Hz/60Hz** | | 239406 | 239484 |
| **42V 50Hz/60Hz** | | 239407 | 239485 |
| **110V 50Hz/60Hz** | | 239408 | 239486 |
| **220V 50Hz/60Hz** | | 239409 | 239487 |
| **230V 50Hz/60Hz** | | 239410 | 239488 |
| Special voltages other than the already shown normal voltages [2] | | See price list | See price list |
| **...V 50Hz** (24 – 600V) [13] | | 239414 | 239504 |
| **...V 60Hz** (24 – 600V) [13] | | 239415 | 239509 |

| DC | | DILM80 (...) | DILM95 (...) |
|---|---|---|---|
| | | Article no.[1] | Article no.[1] |
| **Standard voltages** | | See price list | See price list |
| **RDC 24**[3] | | 239416 | 239510 |
| **RDC 60**[4] | | 239417 | 239511 |
| **RDC 130**[5] | | 239418 | 239512 |
| **RDC 240**[6] | | 239419 | 239513 |

| AC | | DILM115 (...) | DILM150 (...) | DILM170 (...) | DILM185A/22(...) | DILM225A/22(...) |
|---|---|---|---|---|---|---|
| | | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] |
| **Standard voltages** | | See price list | See price list | See price list | See price list | See price list |
| **RAC 24**[7] | | 239545 | 239585 | 107010 | 139534 | 139544 |
| **RAC 48**[8] | | 239546 | 239586 | 107011 | 139535 | 139545 |
| **RAC 120**[9] | | 239547 | 239587 | 107012 | 139536 | 139546 |
| **RAC 240**[10] | | 239548 | 239588 | 107013 | 139537 | 139547 |
| **RAC 440**[11] | | 239549 | 239589 | 107014 | 139538 | 139548 |
| **RAC 500**[12] | | 239550 | 239590 | 107015 | 139539 | 139549 |

| DC | | DILM115 (...) | DILM150 (...) | DILM170 (...) | DILM185A/22(...) | DILM225A/22(...) |
|---|---|---|---|---|---|---|
| | | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] |
| **Standard voltages** | | See price list | See price list | See price list | See price list | See price list |
| **RDC 24**[3] | | 239555 | 239591 | 107016 | 139540 | 139550 |
| **RDC 60**[4] | | 239560 | 239592 | 107017 | 139541 | 139551 |
| **RDC 130**[5] | | 239567 | 239593 | 107018 | 139542 | 139552 |
| **RDC 240**[6] | | 239572 | 239594 | 107019 | 139543 | 139553 |

**Notes**

1) The article no. results from combining the part no. and the actuating voltage.
Devices with dual-voltage coils must be ordered under a single article no.
2) With non-standard voltages the required actuating voltage from the defined range (...–...V) must be stated.
3) 24 - 27 V DC
4) 48 – 60 V DC
5) 110 - 130 V DC
6) 200 - 240 V DC
7) 24 V 50/60 Hz
8) 42 – 48 V 50/60 Hz
9) 100 – 120 V 50/60 Hz
10) 190 – 240 V 50/60 Hz
11) 380 – 440 V 50/60 Hz
12) 480 – 500 V 50/60 Hz
13) Minimum order quantity 5 units

| AC | DILMC7-10 (...) | DILMC7-01 (...) | DILMC9-10 (...) | DILMC9-01 (...) | DILMC12-10 (...) | DILMC12-01 (...) | DILMC15-10 (...) | DILMC15-01 (...) |
|---|---|---|---|---|---|---|---|---|
| | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] |
| **Standard voltages** | See price list | See price list | See price list | See price list | See price list | See price list | See price list | See price list |
| **24 V 50 Hz** | 277379 | 277411 | 277443 | 277475 | 277507 | 277539 | 293938 | 293933 |
| **110V 50Hz 120V 60Hz** | 277386 | 277418 | 277450 | 277482 | 277514 | 277546 | 293908 | 293943 |
| **230V 50Hz 240V 60Hz** | 277389 | 277421 | 277453 | 277485 | 277517 | 277549 | 293911 | 293946 |
| **24V 50Hz/60Hz** | 277393 | 277425 | 277457 | 277489 | 277521 | 277553 | 293915 | 293950 |
| **230V 50Hz/60Hz** | 277397 | 277429 | 277461 | 277493 | 277525 | 277557 | 293919 | 293954 |
| Special voltages other than the already shown normal voltages [2] | See price list | See price list | See price list | See price list | See price list | See price list | See price list | See price list |
| **...V 50Hz** (12 – 600V)[6] | 277401 | 277433 | 277465 | 277497 | 277529 | 277561 | 293923 | 293958 |
| **...V 60Hz** (12 – 600V)[6] | 277402 | 277434 | 277466 | 277498 | 277530 | 277562 | 293924 | 293959 |

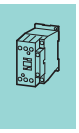
| DC | DILMC7-10 (...) | DILMC7-01 (...) | DILMC9-10 (...) | DILMC9-01 (...) | DILMC12-10 (...) | DILMC12-01 (...) | DILMC15-10 (...) | DILMC15-01 (...) |
|---|---|---|---|---|---|---|---|---|
| | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] |
| **Standard voltages** | See price list | See price list | See price list | See price list | See price list | See price list | See price list | See price list |
| **24V DC** | 277404 | 277436 | 277468 | 277500 | 277532 | 277564 | 293926 | 293961 |
| **110V DC** | 277407 | 277439 | 277471 | 277503 | 277535 | 277567 | 293929 | 293964 |
| **220V DC** | 277408 | 277440 | 277472 | 277504 | 277536 | 277568 | 293930 | 293965 |
| Special voltages other than the already shown normal voltages [2] | See price list | See price list | See price list | See price list | See price list | See price list | See price list | See price list |
| **...VDC** (12 – 250V)[6] | 277409 | 277441 | 277473 | 277505 | 277537 | 277569 | 293931 | 293966 |

| AC | DILMC17-10 (...) | DILMC17-01(...) | DILMC25-10 (...) | DILMC25-01 (...) | DILMC32-10 (...) | DILMC32-01 (...) |
|---|---|---|---|---|---|---|
| | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] |
| **Standard voltages** | See price list | See price list | See price list | See price list | See price list | See price list |
| **24 V 50 Hz** | 277570 | 277600 | 277630 | 277660 | 277690 | 277720 |
| **110V 50Hz 120V 60Hz** | 277578 | 277608 | 277638 | 277668 | 277698 | 277728 |
| **230V 50Hz 240V 60Hz** | 277581 | 277611 | 277641 | 277671 | 277701 | 277731 |
| **24V 50Hz/60Hz** | 277585 | 277615 | 277645 | 277675 | 277705 | 277735 |
| **220V 50Hz/60Hz** | 277588 | 277618 | 277648 | 277678 | 277708 | 277738 |
| **230V 50Hz/60Hz** | 277589 | 277619 | 277649 | 277679 | 277709 | 277739 |
| Special voltages other than the already shown normal voltages[2] | See price list | See price list | See price list | See price list | See price list | See price list |
| **...V 50Hz** (24 – 600V)[6] | 277593 | 277623 | 277653 | 277683 | 277713 | 277743 |
| **...V 60Hz** (24 – 600V)[6] | 277594 | 277624 | 277654 | 277684 | 277714 | 277744 |

| DC | DILMC17-10 (...) | DILMC17-01 (...) | DILMC25-10 (...) | DILMC25-01 (...) | DILMC32-10 (...) | DILMC32-01 (...) |
|---|---|---|---|---|---|---|
| | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] |
| **Standard voltages** | See price list | See price list | See price list | See price list | See price list | See price list |
| **RDC 24**[3] | 277595 | 277625 | 277655 | 277685 | 277715 | 277745 |
| **RDC 130**[4] | 277597 | 277627 | 277657 | 277687 | 277717 | 277747 |
| **RDC 240**[5] | 277598 | 277628 | 277658 | 277688 | 277718 | 277748 |

**Notes**

1) The article no. results from combining the part no. and the actuating voltage. Devices with dual-voltage coils must be ordered under a single article no.
2) With non-standard voltages the required actuating voltage from the defined range (...–...V) must be stated.
3) 24 - 27 V DC
4) 110 - 130 V DC
5) 200 - 240 V DC
6) Minimum order quantity 10 units



| **AC** | **DILMP20 (…)** | **DILMP32-10** | **DILMP32-01** | **DILMP45-10** | **DILMP45-01** | **DILMP63 (…)** | **DILMP80 (…)** | **DILMP125 (…)** | **DILMP160 (…)** | **DILMP200 (…)** |
|---|---|---|---|---|---|---|---|---|---|---|
| | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] |
| **Standard voltages** | See price list | See price list | See price list | See price list | See price list | See price list | See price list | See price list | See price list | See price list |
| **240V 50Hz** | – | 109798 | – | 109827 | – | 109856 | 109885 | – | – | – |
| **110V 50Hz 120V 60Hz** | 276967 | 109790 | 118912 | 109819 | 118915 | 109848 | 109877 | – | – | – |
| **230 V 50Hz 240V 60Hz** | 276970 | 109797 | 118911 | 109826 | 118914 | 109855 | 109884 | – | – | – |
| **24V 50/60Hz** | 276974 | 109799 | – | 109828 | – | 109857 | 109886 | – | – | – |
| **230V 50/60Hz** | 276978 | 109796 | – | 109825 | – | 109883 | 109883 | – | – | – |
| **AC** | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] |
| **Standard voltages** | See price list | See price list | See price list | See price list | See price list | See price list | See price list | See price list | See price list | See price list |
| **RAC 24**[4] | – | – | – | – | – | – | – | 109904 | 109914 | 109924 |
| **RAC 120**[5] | – | – | – | – | – | – | – | 109903 | 109913 | 109923 |
| **RAC 240**[6] | – | – | – | – | – | – | – | 109905 | 109915 | 109925 |
| **AC** | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] |
| Non-standard voltages[2] | See price list | See price list | See price list | See price list | See price list | See price list | See price list | See price list | See price list | See price list |
| **…V 50Hz** (12 – 600V)[3] | 276982 | 109787 | 109787 | 109816 | 109816 | 109845 | 109874 | – | – | – |
| **…V 60Hz** (12 – 600V)[3] | 276983 | 109788 | 109788 | 109817 | 109817 | 109846 | 109875 | – | – | – |
| **DC** | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] |
| **Standard voltages** | See price list | See price list | See price list | See price list | See price list | See price list | See price list | See price list | See price list | See price list |
| **24V DC** | 276985 | – | – | – | – | – | – | – | – | – |
| **RDC 24**[7] | – | 109811 | 118913 | 109840 | 118916 | 109869 | 109898 | 109910 | 109920 | 109930 |
| **DC** | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] | Article no.[1] |
| Non-standard voltages[2] | See price list | See price list | See price list | See price list | See price list | See price list | See price list | See price list | See price list | See price list |
| **…V DC** (12 – 250V)[3] | 276990 | – | – | – | – | – | – | – | – | – |

Notes

[1] The article number is a combination of part no. and actuating voltage
[2] For non-standard voltages, state the actuating voltage selected from the range (…–…V) shown.
[3] Minimum order quantity: 10 units
[4] 24 V 50/60 Hz
[5] 100 – 120 V 50/60 Hz
[6] 190 – 240 V 50/60 Hz
[7] 24 – 27 V DC