

DIL contactors up to 2600 A Powerful, efficient and easy to combine



You will find our safety contactors in Chapter 4, page 4/8 ff.

This contactor series covers the entire power range from mini contactor relays up to 7 A through to vacuum contactors up to 2600 A. By combining them with electronic motor protection relays or bimetal relays, you can create motor starters for a wide variety of applications. All devices are suitable for global use and come with UL/CSA, CCC and marine approvals. The motor protection systems are also ATEX certified. What makes the contactors even more efficient are the Eco versions for 15.5, 38, 72, 170 and 570 A, as well as our many new innovations for motor starters, such as SmartWire-DT. A special highlight is our range of contactors and auxiliary contactors up to 38 A with Push-in technology. This enables the devices to be wired without any tools and thus delivers major time savings, as well as making the contacts more resistant to shocks and vibrations.



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Even faster wiring with Push-in terminals

Push-in technology enables the tool-free wiring of the main and auxiliary circuits of our contactors and auxiliary contactors up to 38 A:

- Faster and tool-free wiring of rigid and flexible cables with ferrules
- Maximum reliability even in the face of strong vibrations



DILE mini contactor relay

We have expanded our portfolio of mini contactor relays to three power ranges. The new DILEM12 can be used to reliably control motors up to 5.5 kW:

- Compact size for installations where space is at a premium
- Expansion of our mini contactor relay range up to 5.5 kW



DILM contactors up to 170 A

Our contactors up to 170 A are characterized by their compact size. The AC-operated and DC-operated devices thus all have the same dimensions:

- Identical accessories for AC and DC devices simplify project planning

All DC contactors from DILM17 upwards come with an electronically controlled drive:

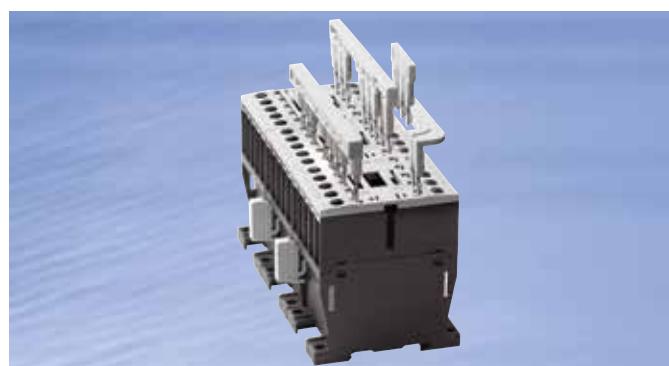
- Significantly less waste heat due to reduced holding power
- Small control transformers due to low pull-in power
- Direct control via a PLC without coupling contactors up to 38 A.



New ZEB electronic overload relay

Our new electronic overload relays can be mounted directly on the DILM contactors. They cover the power range up to 175 A.

- Adjustable protection class setting in the case of heavy starting duties
- Selectable manual or auto reset for universal use
- The GF devices provide extended protection in the event of ground faults.



Easy, fast and reliable wiring

- The combination plug-in technology uses our universally applicable standard components. For contactors up to 15.5 A, the DILM12-XSL or DILM12-XRL main jumpers can be quickly plugged into the sockets of the combination plug-in system to save space.
- Coil connections at the front enable fast and reliable wiring.
- The double box terminals on all DILM contactors up to 170 A ensure reliable wiring even if different conductor cross-sections are used.



4-pole contactors

The Eaton 4-pole contactors are optimized for switching AC-1 loads.

The contactors are the perfect match for applications that are characterized by frequent mains switch-off or switch-over, as well as for heating systems and 4-pole loads:

- Four compact frame sizes up to 200 A
- Identical accessories for 3- and 4-pole contactors ensure efficient project planning.



Contactors for reactive current compensation systems

The design of the DILK capacitor contactors is based on that of the DILM contactors. The installation, connection and handling conditions are thus identical with those of the standard contactors. In addition to a special, weld-proof contact material, these contactors also contain series resistors. The main contacts will only close and carry a continuous current after the capacitors have been precharged by means of a special auxiliary contactor and the series resistors.



DILA contactor relays

The DILA contactor relays are the perfect companion to the DILM contactors.

- Special auxiliary contacts for the contactor relays ensure safe marking.



Safety technology

Safety technology is becoming increasingly important.

In this context, contactors are used to ensure safe shutdown:

- Reliable feedback on the switching state of the contactor via mirror contacts
- Our new electronics-compatible auxiliary switch reliably switches long release chains with even the smallest of signals. The integrated microswitches reliably switch even the smallest signals.



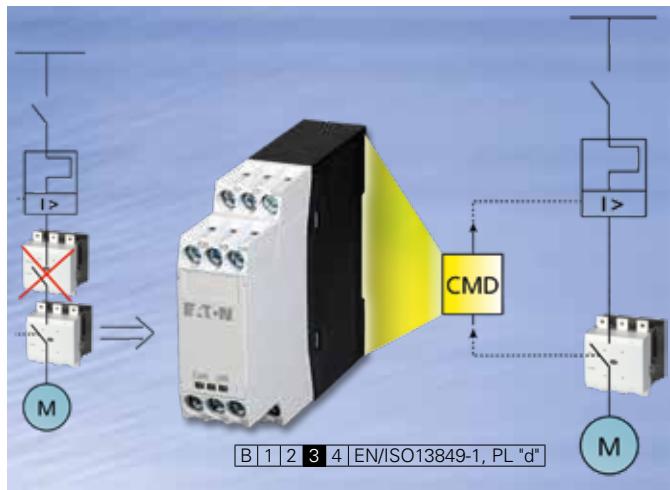
EMT6 thermistor overload relay

A broad range of functions despite the very small footprint. The EMT6 thermistor relay protects equipment against over-temperature caused by heavy starting duties, braking operations,

undervoltage, overvoltage and high switching frequencies. The temperature is monitored by means of a thermistor directly on the motor winding.

The EMT6 is also suitable for monitoring the temperatures of motor bearings, gearboxes, oils and coolants. Three types are available, with tiered functions:

EMT6, EMT6-DB and EMT6-DBK. The EMT6-DBK is very versatile, featuring automatic and manual reset, short-circuit detection in the sensor circuit and zero-voltage safety.



CMD contactor monitoring device

The CMD (contactor monitoring device) monitors the main contacts of a contactor for welding. It compares the contactor control voltage with the state of the main contact, which is reliably indicated by means of a mirror contact (IEC EN 60947-4-1 A. F). If the contactor coil is de-energized but the contactor fails to drop out, the CMD will trip the upstream circuit breaker, motor-protective circuit breaker or load-break switch via an undervoltage release.



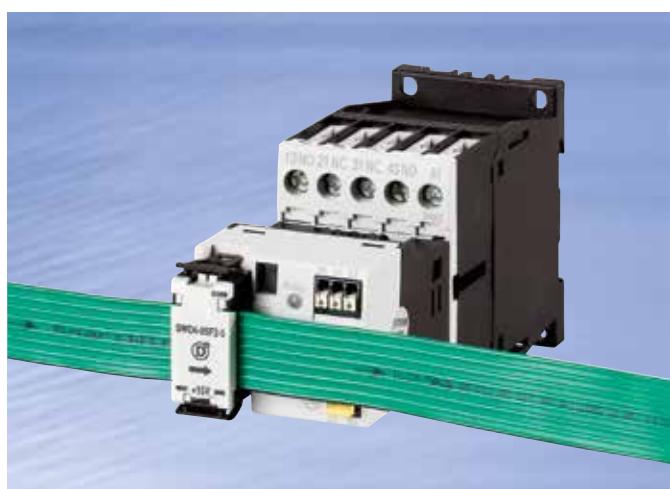
Large contactors up to 2600 A

All DILM and DILH contactors in the range from 185 A to 2600 A come with electronically controlled coils. This offers the following application advantages:

- Flexible control
- Significantly less heating of the control cabinet due to the reduced holding power
- Significantly greater control voltage tolerance than required by the standard, for greater reliability in the event of voltage fluctuations
- Integrated suppressor circuit
- Equipped with 2 N/O and 2 N/C contacts
- The four wide-range devices of the comfort version cover the entire control voltage range.

The DILM contactors from 580 A and the DILH contactors from 1400 A are vacuum contactors, which offer significant advantages over air contactors:

- Their electrical service life is significantly longer than that of air contactors
- As there are no open arcs and thus no blowout, installations with higher packing density and less cluttered electrical rooms are possible.



Intelligent networking

The conventional wiring of the control circuits of motor starters and contactors is highly complex, as each device needs to be individually wired to the controller's input/output modules. This requires a lot of time and entails many potential sources of error during wiring and operation. In combination with SmartWire-DT, the contactors of our xStart series eliminate the control wiring and the input/output modules of the control system that were previously required. This in turn reduces the time required for wiring and commissioning to a minimum.

Overview of motor protection up to 1000 A

Electronic and electric overload relays and thermistor protection relays

Moeller series

Contactors



AC 3 at 400 V
AC-1 at 40°C

| Type | DIL | EEM | EM | EM12* | M7 | M9 | M12 | M15* | M17 | M25 | M32 | M38* | M40 | M50 | M65 | M72* |
|--------------------------------|-----|-----|----|-------|----|----|-----|------|-----|-----|-----|------|------|-----|-----|------|
| Rated operational power AC-3 | kW | 3 | 4 | 5.5 | 3 | 4 | 5.5 | 7.5 | 7.5 | 11 | 15 | 18.5 | 18.5 | 22 | 30 | 37 |
| Rated operational current AC-3 | A | 6.6 | 9 | 12 | 7 | 9 | 12 | 15.5 | 18 | 25 | 32 | 38 | 40 | 50 | 65 | 72 |
| Rated operational current AC-1 | A | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 40 | 45 | 45 | 45 | 60 | 80 | 98 | 98 |

*For motors up to IE2

Bimetal relay



| Type | ZE | ZB12 | ZB32 | ZB65 |
|-----------------------------------|------------|------------|------------|----------|
| Setting range of overload release | 0.1 - 12 A | 0.1 - 16 A | 0.1 - 38 A | 6 - 75 A |

Electronic over-load relay



| Type | ZEB12 | ZEB32 | ZEB65 |
|-----------------------------------|-------------|-------------|-----------|
| Setting range of overload release | 0.33 - 20 A | 0.33 - 45 A | 9 - 100 A |

Thermistor over-load relays



| Type | EMT6, EMT6-K, EMT6-DB, ... |
|------|----------------------------|
|------|----------------------------|



| M80 | M95 | M115 | M150 | M170* | M185A | M225A | M250 | M300A | M400 | M500 | M580 | M650 | M750 | M820 | M1000 |
|-----|-----|------|------|-------|-------|-------|------|-------|------|------|------|------|------|------|-------|
| 37 | 45 | 55 | 75 | 90 | 90 | 110 | 132 | 160 | 200 | 250 | 315 | 355 | 400 | 450 | 560 |
| 80 | 95 | 115 | 150 | 170 | 185 | 225 | 250 | 300 | 400 | 500 | 580 | 650 | 750 | 820 | 1000 |
| 110 | 130 | 160 | 190 | 225 | 337 | 356 | 400 | 430 | 612 | 857 | 980 | 1041 | 1102 | 1225 | 1225 |

*For motors up to IE2

| | | | |
|--------------|------------------|-----------------|------------|
| | | | |
| ZB150 | Z5-FF225A | Z5-FF250 | ZW7 |
| 35 - 175 A | 50 - 250 A | 50 - 300 A | 42 - 630 A |

| | |
|---------------|----------------|
| | |
| ZEB150 | ZEB225A |
| 20 - 175 A | 35 - 175 A |



... EMT6KDB, EMT6-DBK

Mini contactors, contactor monitoring relays

Contactors, mini contactors, contactor monitoring relays

Moeller series

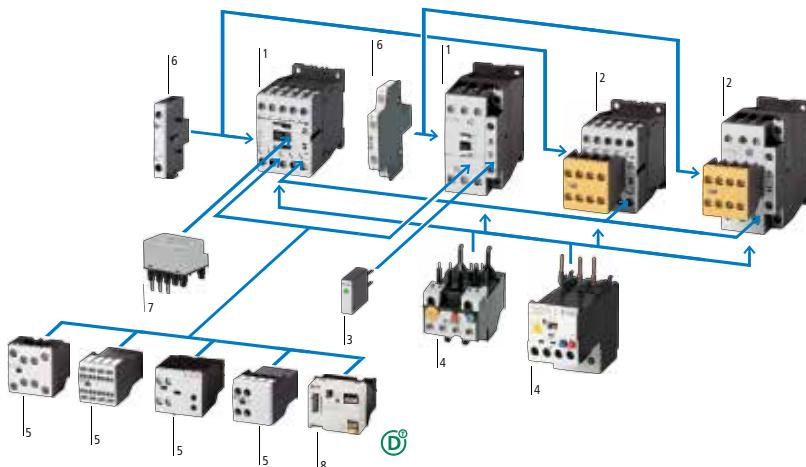
| Max. rated operational power of three-phase motors: 50 - 60 Hz AC-3 380 V 400 V | | | | Rated operational current AC-1 660 V 690 V | Contact configuration N/O = normally open N/C = normally closed | AC operation 230 V 50 Hz, 240 V 60 Hz | AC operation 110 V 50 Hz, 120 V 60 Hz | DC operation 24 V DC |
|--|---------|------------------|----|---|---|---|---|--------------------------------------|
| P kW | P kW | Open at 40 °C | | | | Part no. Article no. | Part no. Article no. | Part no. Article no. |
| DILEM contactors | | | | | | | | |
| Screw terminals | | | | | | | | |
|  | 3 | 3 | 22 | 1 N/O | - | DILEEM-10(230V50HZ,240V60HZ) 051608 | DILEEM-10(110V50HZ,120V60HZ) 051611 | DILEEM-10-G(24VDC) 051643 |
| | 3 | 3 | 22 | - | 1 N/C | DILEEM-01(230V50HZ,240V60HZ) 051633 | DILEEM-01(110V50HZ,120V60HZ) 051636 | DILEEM-01-G(24VDC) 051650 |
| | 4 | 4 | 22 | 1 N/O | - | DILEM-10(230V50HZ,240V60HZ) 051786 | DILEM-10(110V50HZ,120V60HZ) 051783 | DILEM-10-G(24VDC) 010213 |
| | 4 | 4 | 22 | - | 1 N/C | DILEM-01(230V50HZ,240V60HZ) 051795 | DILEM-01(110V50HZ,120V60HZ) 051792 | DILEM-01-G(24VDC) 010343 |
| | 5.5 | 4 | 22 | 1 N/O | - | DILEM12-10(230V50HZ,240V60HZ) 127075 | DILEM12-10(110V50HZ,120V60HZ) 127072 | DILEM12-10-G(24VDC) 127132 |
| | 5.5 | 4 | 22 | - | 1 N/C | DILEM12-01(230V50HZ,240V60HZ) 127091 | DILEM12-01(110V50HZ,120V60HZ) 127088 | DILEM12-01-G(24VDC) 127137 |
| DILER mini contactor relays | | | | | | | | |
| Screw terminals | | | | | | | | |
|  | - | - | 10 | 4 N/O | - | DILER-40(230V50HZ,240V60HZ) 051759 | DILER-40(110V50HZ,120V60HZ) 051756 | DILER-40-G(24VDC) 010223 |
| | - | - | 10 | 3 N/O | 1 N/C | DILER-31(230V50HZ,240V60HZ) 051768 | DILER-31(110V50HZ,120V60HZ) 051765 | DILER-31-G(24VDC) 010157 |
| | - | - | 10 | 2 N/O | 2 N/C | DILER-22(230V50HZ,240V60HZ) 051777 | DILER-22(110V50HZ,120V60HZ) 051774 | DILER-22-G(24VDC) 010042 |
| DILA contactor relays | | | | | | | | |
| Screw terminals | | | | | | | | |
|  | - | - | 16 | 4 N/O | - | DILA-40(230V50HZ,240V60HZ) 276329 | DILA-40(110V50HZ,120V60HZ) 276326 | DILA-40(24VDC) 276344 |
| | - | - | 16 | 3 N/O | 1 N/C | DILA-31(230V50HZ,240V60HZ) 276364 | DILA-31(110V50HZ,120V60HZ) 276361 | DILA-31(24VDC) 276379 |
| | - | - | 16 | 2 N/O | 2 N/C | DILA-22(230V50HZ,240V60HZ) 276399 | DILA-22(110V50HZ,120V60HZ) 276396 | DILA-22(24VDC) 276414 |
| Push-in terminals | | | | | | | | |
|  | - | - | 16 | 4 N/O | - | DILA-40(230V50HZ,240V60HZ)-PI 199204 | DILA-40(110V50HZ,120V60HZ)-PI 199205 | DILA-40(24VDC)-PI 199208 |
| | - | - | 16 | 3 N/O | 1 N/C | DILA-31(230V50HZ,240V60HZ)-PI 199209 | DILA-31(110V50HZ,120V60HZ)-PI 199210 | DILA-31(24VDC)-PI 199213 |
| | - | - | 16 | 2 N/O | 2 N/C | DILA-22(230V50HZ,240V60HZ)-PI 199214 | DILA-22(110V50HZ,120V60HZ)-PI 199215 | DILA-22(24VDC)-PI 199218 |

| For use with | Contacts | N/O = normally open | N/O _E = N/O early-make | N/C = normally closed | N/C _L = N/C late-break ⊖ | Part no. | Article no. |
|---|---|--|--|---|---|--|--|
| Auxiliary contact modules | | | | | | | |
| Screw terminals | | | | | | | |
| | DILEM-10(-G)(...) DILEM-4(-G)(...) DILEEM-10(-G)(...) DILEM12-10(-G)(...) | - 1 N/O 2 N/O | - - - | 2 N/C 1 N/C 2 N/C | - - - | 02DILEM 11DILEM 22DILEM | 010064 010080 010112 |
| | DILEM-10(-G)(...) DILEM-01(-G)(...) DILEM-4(-G)(...) DILER40(-G) DILER31(-G) DILER22 DILEEM-10(-G)(...) DILEEM-01(-G)(...) DILEM12-10(-G)(...) DILEM12-01(-G)(...) | - 1 N/O 2 N/O - - - - 1 N/O _E - - 3 N/O 2 N/O 3 N/O 4 N/O 1 N/O | - - - - - - - - - - - - - - 1 N/O _E | 2 N/C 1 N/C - - - 4 N/C 3 N/C 2 N/C 1 N/C - 1 N/C | - - - - 1 N/C _L - - - - - - - - 1 N/C | 02DILE 11DILE 20DILE 11DILE 04DILE 13DILE 22DILE 31DILE 40DILE 22DILE | 010240 010224 010208 049824 010256 002397 010288 048912 010304 049823 |
| Suppressor circuit | | | | | | | |
| Varistor suppressor | DILE... | - | - | - | - | VGDILE250 | 010336 |
| | | | | | | | |
| RC suppressor | DILE... | - | - | - | - | RCDILE250 | 046320 |
| | | | | | | | |
| Mechanical interlock | | | | | | | |
| For contactors with the same or a different magnet system. 0 mm distance between relays. mechanical service life: 2.5×10^6 operations. Additional auxiliary contact modules possible. | | | | | | | |
| | | | | | | MVDILE | 010113 |
| | | | | | | | |
| Paralleling link | | | | | | | |
| Consisting of 2 parallel links, 4-pole | DILEEM DILEM12 DILEM | - | - | - | - | P1DILEM | 019095 |
| | | | | | | | |

Contactors

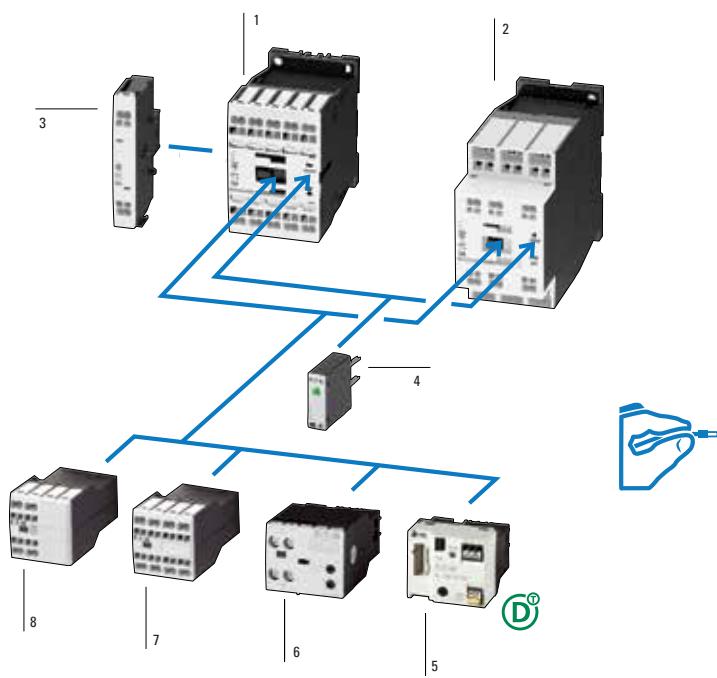
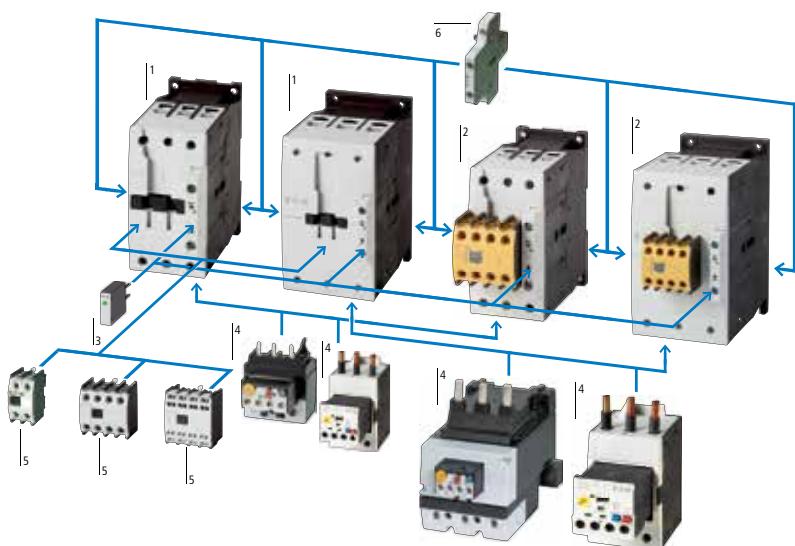
System overview

Moeller series



- 1 Contactors
- 2 Safety contactors
- 3 Suppressor circuits
- 4 Motor-protection relays
- 5 Auxiliary contact modules
- 6 Side-mounting auxiliary contact modules
- 7 Motor suppressor module
- 8 SmartWire-DT contactor module

The safety contactors can be found in Chapter 4, page 4/8 ff.



- 1 DILA contactor relay/DILM contactors up to 7.5 kW – Push-in terminal
- 2 DILM contactor up to 18.5 kW – Push-in terminal
- 3 Side-mounting auxiliary contact – Push-in terminal
- 4 Coil protection circuits
- 5 SmartWire-DT networking module
- 6 Electronic timer module – screw terminal
- 7 Front-mounting auxiliary contact, 4-pole – Push-in terminal
- 8 Front-mounting auxiliary contact, 2-pole – Push-in terminal

| | | | | AC operation | AC operation | DC operation |
|---|---------------------------|--|-----|--|--|--------------------------------|
| | | | | 230 V 50 Hz, 240 V 60 Hz | 110 V 50 Hz, 120 V 60 Hz | 24 V DC |
| | | | | Part no. Article no. | Part no. Article no. | Part no. Article no. |
| Max. rated operational power of three-phase motors: 50 - 60 Hz | Rated operational current | | | | | |
| AC-3 | AC-1 | | | | | |
| 380 V 400 V | 660 V 690 V | conventional thermal current, 3-pole, 50-60 Hz | | | | |
| P kW | P kW | Open at 40 °C | | | | |
| | | $I_{th} = I_e$ | | | | |
| | | A | | | | |
| Base device | | | | | | |
| Screw terminals | | | | | | |
|  | 3 | 3.5 | 22 | DILM7-10(230V50HZ,240V60HZ) 276550 | DILM7-10(110V50HZ,120V60HZ) 276547 | DILM7-10(24VDC) 276565 |
| | 3 | 3.5 | 22 | DILM7-01(230V50HZ,240V60HZ) 276585 | DILM7-01(110V50HZ,120V60HZ) 276582 | DILM7-01(24VDC) 276600 |
| | 4 | 4.5 | 22 | DILM9-10(230V50HZ,240V60HZ) 276690 | DILM9-10(110V50HZ,120V60HZ) 276687 | DILM9-10(24VDC) 276705 |
| | 4 | 4.5 | 22 | DILM9-01(230V50HZ,240V60HZ) 276725 | DILM9-01(110V50HZ,120V60HZ) 276722 | DILM9-01(24VDC) 276740 |
| | 5.5 | 6.5 | 22 | DILM12-10(230V50HZ,240V60HZ) 276830 | DILM12-10(110V50HZ,120V60HZ) 276827 | DILM12-10(24VDC) 276845 |
| | 5.5 | 6.5 | 22 | DILM12-01(230V50HZ,240V60HZ) 276865 | DILM12-01(110V50HZ,120V60HZ) 276862 | DILM12-01(24VDC) 276880 |
| | 7.5 | 7 | 22 | DILM15-10(230V50HZ,240V60HZ) 290058 | DILM15-10(110V50HZ,120V60HZ) 290055 | DILM15-10(24VDC) 290073 |
| | 7.5 | 7 | 22 | DILM15-01(230V50HZ,240V60HZ) 290093 | DILM15-01(110V50HZ,120V60HZ) 290090 | DILM15-01(24VDC) 290108 |
| | 7.5 | 11 | 40 | DILM17-10(230V50HZ,240V60HZ) 277004 | DILM17-10(110V50HZ,120V60HZ) 277001 | DILM17-10(RDC24) 277018 |
| | 7.5 | 11 | 40 | DILM17-01(230V50HZ,240V60HZ) 277036 | DILM17-01(110V50HZ,120V60HZ) 277033 | DILM17-01(RDC24) 277050 |
|  | 11 | 14 | 45 | DILM25-10(230V50HZ,240V60HZ) 277132 | DILM25-10(110V50HZ,120V60HZ) 277129 | DILM25-10(RDC24) 277146 |
| | 11 | 14 | 45 | DILM25-01(230V50HZ,240V60HZ) 277164 | DILM25-01(110V50HZ,120V60HZ) 277161 | DILM25-01(RDC24) 277178 |
| | 15 | 17 | 45 | DILM32-10(230V50HZ,240V60HZ) 277260 | DILM32-10(110V50HZ,120V60HZ) 277257 | DILM32-10(RDC24) 277274 |
| | 15 | 17 | 45 | DILM32-01(230V50HZ,240V60HZ) 277292 | DILM32-01(110V50HZ,120V60HZ) 277289 | DILM32-01(RDC24) 277306 |
| | 18.5 | 21 | 45 | DILM38-10(230V50HZ,240V60HZ) 112428 | DILM38-10(110V50HZ,120V60HZ) 112425 | DILM38-10(RDC24) 112442 |
| | 18.5 | 21 | 45 | DILM38-01(230V50HZ,240V60HZ) 112456 | DILM38-01(110V50HZ,120V60HZ) 112453 | DILM38-01(RDC24) 112470 |
| | 18.5 | 23 | 60 | DILM40(230V50HZ,240V60HZ) 277766 | DILM40(110V50HZ,120V60HZ) 277763 | DILM40(RDC24) 277780 |
| | 22 | 30 | 80 | DILM50(230V50HZ,240V60HZ) 277830 | DILM50(110V50HZ,120V60HZ) 277827 | DILM50(RDC24) 277844 |
| | 30 | 35 | 98 | DILM65(230V50HZ,240V60HZ) 277894 | DILM65(110V50HZ,120V60HZ) 277891 | DILM65(RDC24) 277908 |
| | 37 | 35 | 98 | DILM72(230V50HZ,240V60HZ) 107670 | DILM72(110V50HZ,120V60HZ) 109191 | DILM72(RDC24) 107671 |
|  | 37 | 63 | 110 | DILM80(230V50HZ,240V60HZ) 239402 | DILM80(110V50HZ,120V60HZ) 239399 | DILM80(RDC24) 239416 |
| | 45 | 75 | 130 | DILM95(230V50HZ,240V60HZ) 239480 | DILM95(110V50HZ,120V60HZ) 239477 | DILM95(RDC24) 239510 |
| | 55 | 90 | 160 | DILM115(RAC240) 239548 | DILM115(RAC120) 239547 | DILM115(RDC24) 239555 |
| | 75 | 96 | 190 | DILM150(RAC240) 239588 | DILM150(RAC120) 239587 | DILM150(RDC24) 239591 |
| | 90 | 96 | 225 | DILM170(RAC240) 107013 | DILM170(RAC120) 107012 | DILM170(RDC24) 107016 |

Contactors

Base devices up to 170 A, Push-in terminals

Moeller series

| Max. rated operational power of three-phase motors: 50 - 60 Hz | Rated operational current | AC operation 230 V 50 Hz, 240 V 60 Hz | AC operation 110 V 50 Hz, 120 V 60 Hz | DC operation 24 V DC |
|---|---------------------------|---|--|---|
| Part no. Article no. | | Part no. Article no. | | Part no. Article no. |
| AC-3 | AC-1 | | | |
| 380 V 400 V | 660 V 690 V | Conventional thermal current, 3-pole, 50-60 Hz Open at 40 °C | | |
| P kW | P kW | I _{th} =I _e A | | |
| Base device | | | | |
| Push-in terminals | | | | |
|  | 3 | 3.5 | 22 | DILM7-10(230V50HZ,240V60HZ)-PI 199219 |
| | 3 | 3.5 | 22 | DILM7-01(230V50HZ,240V60HZ)-PI 199224 |
| | 4 | 4.5 | 22 | DILM9-10(230V50HZ,240V60HZ)-PI 199229 |
| | 4 | 4.5 | 22 | DILM9-01(230V50HZ,240V60HZ)-PI 199234 |
| | 5.5 | 6.5 | 22 | DILM12-10(230V50HZ,240V60HZ)-PI 199239 |
| | 5.5 | 6.5 | 22 | DILM12-01(230V50HZ,240V60HZ)-PI 199244 |
| | 7.5 | 7 | 22 | DILM15-10(230V50HZ,240V60HZ)-PI 199249 |
| | 7.5 | 7 | 22 | DILM15-01(230V50HZ,240V60HZ)-PI 199254 |
| | | | | DILM7-10(24VDC)-PI 199223 |
| | | | | DILM7-01(24VDC)-PI 199228 |
| | | | | DILM9-10(24VDC)-PI 199233 |
| | | | | DILM9-01(24VDC)-PI 199238 |
| | | | | DILM12-10(24VDC)-PI 199243 |
| | | | | DILM12-01(24VDC)-PI 199248 |
| | | | | DILM15-10(24VDC)-PI 199253 |
| | | | | DILM15-01(24VDC)-PI 199258 |
| Push-in terminals | | | | |
|  | 3 | 3.5 | 40 | DILM8-11(230V50HZ,240V60HZ)-PI 199264 |
| | 4 | 4.5 | 40 | DILM11-11(230V50HZ,240V60HZ)-PI 199269 |
| | 5.5 | 6.5 | 40 | DILM14-11(230V50HZ,240V60HZ)-PI 199274 |
| | 7.5 | 5 | 40 | DILM17-11(230V50HZ,240V60HZ)-PI 199279 |
| | 11 | 14 | 45 | DILM25-11(230V50HZ,240V60HZ)-PI 199284 |
| | 15 | 17 | 45 | DILM32-11(230V50HZ,240V60HZ)-PI 199289 |
| | 18.5 | 21 | 45 | DILM38-11(230V50HZ,240V60HZ)-PI 199294 |
| | | | | DILM8-11(RDC24)-PI 199268 |
| | | | | DILM11-11(RDC24)-PI 199273 |
| | | | | DILM14-11(RDC24)-PI 199278 |
| | | | | DILM17-11(RDC24)-PI 199283 |
| | | | | DILM25-11(RDC24)-PI 199288 |
| | | | | DILM32-11(RDC24)-PI 199293 |
| | | | | DILM38-11(RDC24)-PI 199298 |
| Spring-loaded terminals on auxiliary and control circuit terminals | | | | |
|  | 18.5 | 23 | 60 | DILMC40(230V50HZ,240V60HZ) 277965 |
| | 22 | 30 | 80 | DILMC50(230V50HZ,240V60HZ) 277995 |
| | 30 | 35 | 98 | DILMC65(230V50HZ,240V60HZ) 278025 |
| | | | | DILMC40(RDC24) 277979 |
| | | | | DILMC50(RDC24) 278009 |
| | | | | DILMC65(RDC24) 278039 |
|  | 37 | 63 | 110 | DILMC80(230V50HZ,240V60HZ) 239618 |
| | 45 | 75 | 130 | DILMC95(230V50HZ,240V60HZ) 239685 |
| | 55 | 90 | 160 | DILMC115(RAC240) 239736 |
| | 75 | 96 | 190 | DILMC150(RAC240) 239751 |
| | | | | DILMC80(RDC24) 239652 |
| | | | | DILMC95(RDC24) 239715 |
| | | | | DILMC115(RDC24) 239741 |
| | | | | DILMC150(RDC24) 239765 |

| | | | | AC operation 230 V 50 Hz, 240 V 60 Hz | DC operation 24 V DC |
|---|-------------|--|-----|---|------------------------------------|
| | | | | Part no. Article no. | Part no. Article no. |
| Max. rated operational power of three-phase motors: 50 - 60 Hz | | Rated operational current | | | |
| AC-3 | | AC-1 | | | |
| 380 V 400 V | 660 V 690 V | Conventional thermal current, 3-pole, 50-60 Hz | | | |
| P kW | P kW | Open at 40 °C | | | |
| I _{th} =I _e | A | | | | |
| DILM complete devices | | | | | |
| Screw terminals | | | | | |
|  | 3 | 3.5 | 22 | DILM7-32(230V50HZ,240V60HZ) 276655 | DILM7-32(24VDC) 276670 |
| | 4 | 4.5 | 22 | DILM9-32(230V50HZ,240V60HZ) 276795 | DILM9-32(24VDC) 276810 |
| | 5.5 | 6.5 | 22 | DILM12-32(230V50HZ,240V60HZ) 276935 | DILM12-32(24VDC) 276950 |
|  | 7.5 | 11 | 40 | DILM17-32(230V50HZ,240V60HZ) 277100 | DILM17-32(RDC24) 277114 |
| | 11 | 14 | 45 | DILM25-32(230V50HZ,240V60HZ) 277228 | DILM25-32(RDC24) 277242 |
| | 15 | 17 | 45 | DILM32-32(230V50HZ,240V60HZ) 277356 | DILM32-32(RDC24) 277370 |
|  | 18.5 | 23 | 60 | DILM40-22(230V50HZ,240V60HZ) 277798 | DILM40-22(RDC24) 277812 |
| | 22 | 30 | 80 | DILM50-22(230V50HZ,240V60HZ) 277862 | DILM50-22(RDC24) 277876 |
| | 30 | 35 | 98 | DILM65-22(230V50HZ,240V60HZ) 277926 | DILM65-22(RDC24) 277940 |
|  | 37 | 63 | 110 | DILM80-22(230V50HZ,240V60HZ) 239449 | DILM80-22(RDC24) 239463 |
| | 45 | 75 | 130 | DILM95-22(230V50HZ,240V60HZ) 239527 | DILM95-22(RDC24) 239541 |
| | 55 | 90 | 160 | DILM115-22(RAC240) 239578 | DILM115-22(RDC24) 239581 |
| | 75 | 96 | 190 | DILM150-22(RAC240) 239598 | DILM150-22(RDC24) 239601 |

Contactors and auxiliary contactors

Base devices with screw terminals

Moeller series

| AC3 380 V 400 V P kW | AC3 660 V 690 V P kW | AC1 $I_{th} = I_e$ A^{*1} | AC operation 230 V 50/60 Hz Part no. Article no. | AC operation 110 V 50/60 Hz Part no. Article no. | AC operation 42 V 50 Hz, 48 V 60 Hz Part no. Article no. | AC operation 24 V 50/60 Hz Part no. Article no. |
|----------------------------------|----------------------------------|-----------------------------------|---|---|---|--|
| | | 10 | DILER-40(230V50/60HZ) 52725 | DILER-40(110V50/60HZ) 21961 | DILER-40(42V50HZ,48V60HZ) 51755 | DILER-40(24V50/60HZ) 21924 |
| - | - | 10 | DILER-31(230V50/60HZ) 52509 | DILER-31(110V50/60HZ) 21624 | DILER-31(42V50HZ,48V60HZ) 51764 | DILER-31(24V50/60HZ) 21594 |
| - | - | 10 | DILER-22(230V50/60HZ) 52508 | DILER-22(110V50/60HZ) 21871 | DILER-22(42V50HZ,48V60HZ) 51773 | DILER-22(24V50/60HZ) 21704 |
| - | - | 16 | DILA-40(230V50/60HZ) 276337 | DILA-40(110V50/60HZ) 276335 | DILA-40(42V50HZ,48V60HZ) 276325 | DILA-40(24V50/60HZ) 276333 |
| - | - | 16 | DILA-31(230V50/60HZ) 276372 | DILA-31(110V50/60HZ) 276370 | DILA-31(42V50HZ,48V60HZ) 276360 | DILA-31(24V50/60HZ) 276368 |
| - | - | 16 | DILA-22(230V50/60HZ) 276407 | DILA-22(110V50/60HZ) 276405 | DILA-22(42V50HZ,48V60HZ) 276395 | DILA-22(24V50/60HZ) 276403 |
| 3 | 3 | 22 | DILEEM-10(230V50/60HZ) 56674 | DILEEM-10(110V50/60HZ) 51592 | DILEEM-10(42V50HZ,48V60HZ) 51612 | DILEEM-10(24V50/60HZ) 51596 |
| 3 | 3 | 22 | DILEEM-01(230V50/60HZ) 58771 | DILEEM-01(110V50/60HZ) 51618 | DILEEM-01(42V50HZ,48V60HZ) 51637 | DILEEM-01(24V50/60HZ) 51621 |
| 4 | 4 | 22 | DILEM-10(230V50/60HZ) 52302 | DILEM-10(110V50/60HZ) 21455 | DILEM-10(42V50HZ,48V60HZ) 51782 | DILEM-10(24V50/60HZ) 21417 |
| 4 | 4 | 22 | DILEM-01(230V50/60HZ) 51114 | DILEM-01(110V50/60HZ) 20436 | DILEM-01(42V50HZ,48V60HZ) 51791 | DILEM-01(24V50/60HZ) 20402 |
| 3 | 3.5 | 22 | DILM7-10(230V50/60HZ) 276558 | DILM7-10(110V50/60HZ) 276556 | DILM7-10(42V50HZ,48V60HZ) 276546 | DILM7-10(24V50/60HZ) 276554 |
| 3 | 3.5 | 22 | DILM7-01(230V50/60HZ) 276593 | DILM7-01(110V50/60HZ) 276591 | DILM7-01(42V50HZ,48V60HZ) 276581 | DILM7-01(24V50/60HZ) 276589 |
| 4 | 4.5 | 22 | DILM9-10(230V50/60HZ) 276698 | DILM9-10(110V50/60HZ) 276696 | DILM9-10(42V50HZ,48V60HZ) 276686 | DILM9-10(24V50/60HZ) 276694 |
| 4 | 4.5 | 22 | DILM9-01(230V50/60HZ) 276733 | DILM9-01(110V50/60HZ) 276731 | DILM9-01(42V50HZ,48V60HZ) 276721 | DILM9-01(24V50/60HZ) 276729 |
| 5.5 | 6.5 | 22 | DILM12-10(230V50/60HZ) 276838 | DILM12-10(110V50/60HZ) 276836 | DILM12-10(42V50HZ,48V60HZ) 276826 | DILM12-10(24V50/60HZ) 276834 |
| 5.5 | 6.5 | 22 | DILM12-01(230V50/60HZ) 276873 | DILM12-01(110V50/60HZ) 276871 | DILM12-01(42V50HZ,48V60HZ) 276861 | DILM12-01(24V50/60HZ) 276869 |
| 7.5 | 11 | 40 | DILM17-10(230V50/60HZ) 277012 | DILM17-10(110V50/60HZ) 277010 | DILM17-10(42V50HZ,48V60HZ) 277000 | DILM17-10(24V50/60HZ) 277008 |
| 7.5 | 11 | 40 | DILM17-01(230V50/60HZ) 277044 | DILM17-01(110V50/60HZ) 277042 | DILM17-01(42V50HZ,48V60HZ) 277032 | DILM17-01(24V50/60HZ) 277040 |
| 11 | 14 | 45 | DILM25-10(230V50/60HZ) 277140 | DILM25-10(110V50/60HZ) 277138 | DILM25-10(42V50HZ,48V60HZ) 277128 | DILM25-10(24V50/60HZ) 277136 |
| 11 | 14 | 45 | DILM25-01(230V50/60HZ) 277172 | DILM25-01(110V50/60HZ) 277170 | DILM25-01(42V50HZ,48V60HZ) 277160 | DILM25-01(24V50/60HZ) 277168 |
| 15 | 17 | 45 | DILM32-10(230V50/60HZ) 277268 | DILM32-10(110V50/60HZ) 277266 | DILM32-10(42V50HZ,48V60HZ) 277256 | DILM32-10(24V50/60HZ) 277264 |
| 15 | 17 | 45 | DILM32-01(230V50/60HZ) 277300 | DILM32-01(110V50/60HZ) 277298 | DILM32-01(42V50HZ,48V60HZ) 277288 | DILM32-01(24V50/60HZ) 277296 |
| 18.5 | 23 | 60 | DILM40(230V50/60HZ) 277806 | DILM40(110V50/60HZ) 277772 | DILM40(42V50HZ,48V60HZ) 277762 | DILM40(24V50/60HZ) 277770 |
| 22 | 30 | 80 | DILM50(230V50/60HZ) 277870 | DILM50(110V50/60HZ) 277836 | DILM50(42V50HZ,48V60HZ) 277826 | DILM50(24V50/60HZ) 277834 |
| 30 | 35 | 98 | DILM65(230V50/60HZ) 277902 | DILM65(110V50/60HZ) 277900 | DILM65(42V50HZ,48V60HZ) 277890 | DILM65(24V50/60HZ) 277898 |
| 37 | 63 | 110 | DILM80(230V50/60HZ) 239410 | DILM80(110V50/60HZ) 239408 | DILM80(42V50HZ,48V60HZ) 239394 | DILM80(24V50/60HZ) 239406 |
| 45 | 75 | 130 | DILM95(230V50/60HZ) 239488 | DILM95(110V50/60HZ) 239486 | DILM95(42V50HZ,48V60HZ) 239476 | DILM95(24V50/60HZ) 239484 |
| 55 | 90 | 160 | DILM115(RAC240) 239548 | DILM115(RAC120) 239547 | DILM115(RAC48) 239546 | DILM115(RAC24) 239545 |
| 75 | 96 | 190 | DILM150(RAC240) 239588 | DILM150(RAC120) 239587 | DILM150(RAC48) 239586 | DILM150(RAC24) 239585 |

*¹ conventional thermal current, 3-pole, 50-60 Hz, open at 40 °C
RAC240±190-240V 50/60Hz; RAC±100-120V 50/60Hz; RAC±42-48V 50/60Hz; RAC24±24V 50/60Hz



| AC3 380 V 400 V P kW | AC3 660 V 690 V P kW | AC1 $I_{th}=I_e$ A ¹ | AC operation 230 V 50/60 Hz Part no. Article no. | AC operation 42 V 50 Hz, 48 V 60 Hz Part no. Article no. | AC operation 24 V 50/60 Hz Part no. Article no. |
|----------------------------------|----------------------------------|---------------------------------------|--|--|---|
|----------------------------------|----------------------------------|---------------------------------------|--|--|---|

Base device

Contactors from 3 kW to 7.5 kW - frame size 1, Push-in terminals

| | | | | | |
|------|-----|----|-------------------------------------|--|------------------------------------|
| - | - | 16 | DILA-40(230V50/60HZ)-PI 199636 | DILA-40(42V50HZ,48V60HZ)-PI 199207 | DILA-40(24V50/60HZ)-PI 199206 |
| - | - | 16 | DILA-31(230V50/60HZ)-PI 199638 | DILA-31(42V50HZ,48V60HZ)-PI 199212 | DILA-31(24V50/60HZ)-PI 199211 |
| - | - | 16 | DILA-22(230V50/60HZ)-PI 199640 | DILA-22(42V50HZ,48V60HZ)-PI 199217 | DILA-22(24V50/60HZ)-PI 199216 |
| 3 | 3.5 | 22 | DILM7-10(230V50/60HZ)-PI 199642 | DILM7-10(42V50HZ,48V60HZ)-PI 199222 | DILM7-10(24V50/60HZ)-PI 199221 |
| 3 | 3.5 | 22 | DILM7-01(230V50/60HZ)-PI 199644 | DILM7-01(42V50HZ,48V60HZ)-PI 199227 | DILM7-01(24V50/60HZ)-PI 199226 |
| 4 | 4.5 | 22 | DILM9-10(230V50/60HZ)-PI 199646 | DILM9-10(42V50HZ,48V60HZ)-PI 199232 | DILM9-10(24V50/60HZ)-PI 199231 |
| 4 | 4.5 | 22 | DILM9-01(230V50/60HZ)-PI 199648 | DILM9-01(42V50HZ,48V60HZ)-PI 199237 | DILM9-01(24V50/60HZ)-PI 199236 |
| 5.5 | 6.5 | 22 | DILM12-10(230V50/60HZ)-PI 199650 | DILMC12-10(42V50HZ,48V60HZ)-PI 199242 | DILM12-10(24V50/60HZ)-PI 199241 |
| 5.5 | 6.5 | 22 | DILM12-01(230V50/60HZ)-PI 199652 | DILMC12-01(42V50HZ,48V60HZ)-PI 199247 | DILM12-01(24V50/60HZ)-PI 199246 |
| 7.5 | 11 | 40 | DILM15-10(230V50/60HZ)-PI 199654 | DILM15-10(42V50HZ,48V60HZ)-PI 199252 | DILM15-10(24V50/60HZ)-PI 199251 |
| 7.5 | 11 | 40 | DILM15-01(230V50/60HZ)-PI 199656 | DILM15-01(42V50HZ,48V60HZ)-PI 199257 | DILM15-01(24V50/60HZ)-PI 199256 |
| 3 | 3.5 | 22 | DILM8-11(230V50/60HZ)-PI 199660 | DILM8-11(42V50HZ,48V60HZ)-PI 199267 | DILM8-11(24V50/60HZ)-PI 199266 |
| 4 | 4.5 | 22 | DILM11-11(230V50/60HZ)-PI 199662 | DILM11-11(42V50HZ,48V60HZ)-PI 199272 | DILM11-11(24V50/60HZ)-PI 199271 |
| 5.5 | 6.5 | 22 | DILM14-11(230V50/60HZ)-PI 199664 | DILM14-11(42V50HZ,48V60HZ)-PI 199277 | DILM14-11(24V50/60HZ)-PI 199276 |
| 7.5 | 11 | 40 | DILM17-11(230V50/60HZ) 199666 | DILM17-11(42V50HZ,48V60HZ)-PI 199282 | DILM17-11(24V50/60HZ)-PI 199281 |
| 11 | 14 | 45 | DILM25-11(230V50/60HZ)-PI 199668 | DILM25-11(42V50HZ,48V60HZ)-PI 199287 | DILM25-11(24V50/60HZ)-PI 199286 |
| 15 | 17 | 45 | DILM32-11(230V50/60HZ)-PI 199670 | DILM32-11(42V50HZ,48V60HZ)-PI 199292 | DILM32-11(24V50/60HZ)-PI 199291 |
| 18.5 | 23 | 60 | DILM38-11(230V50/60HZ)-PI 199672 | DILM38-11(42V50HZ,48V60HZ)-PI 199297 | DILM38-11(24V50/60HZ)-PI 199296 |

Spring-loaded terminals on auxiliary and control circuit terminals

| | | | | | |
|------|----|----|--------------------------------|---|-------------------------------|
| 18.5 | 23 | 60 | DILMC40(230V50/60HZ) 277973 | - | DILMC40(24V50/60HZ) 277969 |
| 22 | 30 | 80 | DILMC50(230V50/60HZ) 278003 | - | - |
| 30 | 35 | 98 | DILMC65(230V50/60HZ) 278033 | - | - |

*1 conventional thermal current, 3-pole, 50-60 Hz, open at 40 °C

Contactors

Comfort and standard devices larger than 170 A

Moeller series

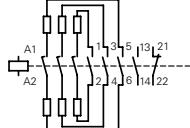
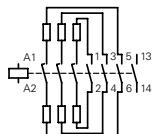
| | | | AC operation 230 V 50 Hz, 240 V 60 Hz | AC operation 110 V 50 Hz, 120 V 60 Hz | DC operation 24 V DC |
|---|---------|--|---|---|-------------------------------------|
| | | | Part no. Article no. | Part no. Article no. | Part no. Article no. |
| | | | | | |
| Max. rated operational power of three-phase motors: 50 - 60 Hz | | Rated operational current | | | |
| AC-3 | | AC-1 | | | |
| 380 V | 660 V | Conventional thermal current, 3-pole, 50-60 Hz | | | |
| 400 V | 690 V | Open at 40 °C | | | |
| P kW | P kW | I _{th} = I _e | | | |
| | | A | | | |
| DILM comfort devices | | | | | |
| Screw connection | | | | | |
|  | | | | | |
| 90 | 140 | 337 | DILM185A/22(RAC240) 139537 | DILM185A/22(RAC120) 139536 | DILM185A/22(RDC24) 139540 |
| 110 | 150 | 386 | DILM225A/22(RAC240) 139547 | DILM225A/22(RAC120) 139546 | DILM225A/22(RDC24) 139550 |
|  | | | | | |
| 132 | 240 | 430 | DILM250/22(RA250) 208201 | DILM250/22(RA110) 208200 | DILM250/22(RDC48) 208199 |
| 160 | 240 | 490 | DILM300A/22(RA250) 139556 | DILM300A/22(RA110) 139555 | DILM300A/22(RDC48) 139554 |
| 200 | 344 | 612 | DILM400/22(RA250) 208209 | DILM400/22(RA110) 208208 | DILM400/22(RDC48) 208207 |
| 250 | 344 | 800 | DILM500/22(RA250) 208213 | DILM500/22(RA110) 208212 | DILM500/22(RDC48) 208211 |
| 315 | 560 | 980 | DILM580/22(RA250) 208216 | DILM580/22(RA110) 208215 | - |
| 355 | 630 | 1041 | DILM650/22(RA250) 208219 | DILM650/22(RA110) 208218 | - |
| 400 | 720 | 1102 | DILM750/22(RA250) 208222 | DILM750/22(RA110) 208221 | - |
| 450 | 750 | 1225 | DILM820/22(RA250) 208225 | DILM820/22(RA110) 208224 | - |
| 560 | 1000 | 1225 | DILM1000/22(RA250) 267214 | - | - |
|  | | | | | |
| Screw connection | | | | | |
|  | | | | | |
| 132 | 240 | 430 | DILM250-S/22(220-240V50/60HZ) 274190 | DILM250-S/22(110-120V50/60HZ) 274189 | - |
| 160 | 240 | 490 | DILM300A-S/22(220-240V50/60HZ) 139559 | DILM300A-S/22(110-120V50/60HZ) 139558 | - |
| 200 | 344 | 612 | DILM400-S/22(220-240V50/60HZ) 274196 | DILM400-S/22(110-120V50/60HZ) 274195 | - |
| 250 | 344 | 800 | DILM500-S/22(220-240V50/60HZ) 274199 | DILM500-S/22(110-120V50/60HZ) 274198 | - |

| | | | AC operation 230 V 50 Hz, 240 V 60 Hz Part no. Article no. | AC operation 110 V 50 Hz, 120 V 60 Hz Part no. Article no. | DC operation 24 V DC Part no. Article no. |
|---|-----|-----|---|---|--|
| Rated operational current AC-1 Conventional thermal current, 3-pole, 50-60 Hz Open at 40 °C at 60 °C $I_{th} = I_e$ $I_{th} = I_e$ A A | | | | | |
| DILMP base devices | | | | | |
| Screw terminals | | | | | |
| | 22 | 20 | DILMP20(230V50HZ,240V60HZ) 276970 | DILMP20(110V50HZ,120V60HZ) 276967 | DILMP20(24VDC) 276985 |
| | 32 | 28 | DILMP32-01(230V50HZ,240V60HZ) 118911 | DILMP32-01(110V50HZ,120V60HZ) 118912 | DILMP32-01(RDC24) 118913 |
| | 32 | 28 | DILMP32-10(230V50HZ,240V60HZ) 109797 | DILMP32-10(110V50HZ,120V60HZ) 109790 | DILMP32-10(RDC24) 109811 |
| | 45 | 39 | DILMP45-01(230V50HZ,240V60HZ) 118914 | DILMP45-01(110V50HZ,120V60HZ) 118915 | DILMP45-01(RDC24) 118916 |
| | 45 | 39 | DILMP45-10(230V50HZ,240V60HZ) 109826 | DILMP45-10(110V50HZ,120V60HZ) 109819 | DILMP45-10(RDC24) 109840 |
| | 63 | 54 | DILMP63(230V50HZ,240V60HZ) 109855 | DILMP63(110V50HZ,120V60HZ) 109848 | DILMP63(RDC24) 109869 |
| | 63 | 54 | DILMP63(RAC240) 167512 | - | - |
| | 80 | 69 | DILMP80(230V50HZ,240V60HZ) 109884 | DILMP80(110V50HZ,120V60HZ) 109877 | DILMP80(RDC24) 109898 |
| | 80 | 69 | DILMP80(RAC240) 167513 | - | - |
| | 125 | 108 | DILMP125(RAC240) 109905 | DILMP125(RAC120) 109903 | DILMP125(RDC24) 109910 |
| | 160 | 138 | DILMP160(RAC240) 109915 | DILMP160(RAC120) 109913 | DILMP160(RDC24) 109920 |
| | 200 | 172 | DILMP200(RAC240) 109925 | DILMP200(RAC120) 109923 | DILMP200(RDC24) 109930 |
| Push-in terminals | | | | | |
| | 22 | 20 | DILMP20(230V50HZ,240V60HZ)-PI 199259 | DILMP20(110V50HZ,120V60HZ)-PI 199260 | DILMP20(24VDC)-PI 199263 |
| | 32 | 28 | DILMP32-11(230V50HZ,240V60HZ)-PI 199299 | DILMP32-11 (110V50HZ,120V60HZ)-PI 199300 | DILMP32-11(RDC24)-PI 199303 |
| | 45 | 39 | DILMP45-1(230V50HZ,240V60HZ)-PI 199304 | DILMP45-11(110V50HZ,120V60HZ)-PI 199305 | DILMP45-11(RDC24)-PI 199308 |

Contactors

Capacitor contactors, lighting contactors

Moeller series

| | Rated operational power of three-phase capacitors 50-60 Hz | | | | Contact diagram | | Part no. Article no. |
|--|---|---------------|---------------|---------------|--|--|--|
| | Open | | | | | | |
| | 230 V kvar | 400 V kvar | 525 V kvar | 690 V kvar | | | |
| DILK capacitor contactors | | | | | | | |
| with series resistors | 7.5 | 12.5 | 16.7 | 20 | | | DILK12-11(230V50HZ,240V60HZ) 293988 |
| Base devices | 11 | 20 | 25 | 33.3 | | | DILK20-11(230V50HZ,240V60HZ) 294010 |
| | 15 | 25 | 33.3 | 40 | | | DILK25-11(230V50HZ,240V60HZ) 294032 |
| | 20 | 33.3 | 40 | 55 | | | DILK33-10(230V50HZ,240V60HZ) 294054 |
| | 25 | 50 | 65 | 85 | | | DILK50-10(230V50HZ,240V60HZ) 294076 |
|  | | | | |   | | |
| DILL lighting contactors | | | | | | | |
|  | 12 | 12 | 14 | 14 | 24 | | DILL12(230V50HZ,240V60HZ) 104402 |
| | 18 | 18 | 21 | 21 | 35 | | DILL18(230V50HZ,240V60HZ) 104405 |
| | 20 | 20 | 27 | 27 | 40 | | DILL20(230V50HZ,240V60HZ) 104408 |

Switchgear for lighting systems

| | DIL | L12 | L18 | L20 | M7 | M9 | M12 | M17 | M25 | M32 | M40 | M50 |
|--|----------------|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|
| Permissible compensation capacitance | C_{max} [mF] | 470 | 470 | 470 | 47 | 80 | 100 | 220 | 330 | 470 | 470 | 500 |
| Filament lamps | I_e [A] | 14 | 21 | 27 | 6 | 7.5 | 10 | 14 | 21 | 27 | 33 | 42 |
| Mercury blended lamps | I_e [A] | 12 | 16 | 23 | 5 | 6.5 | 8.5 | 12 | 16 | 23 | 30 | 38 |
| Conventional fluorescent lamps – reactor – starter – circuit | I_e [A] | 20 | 26 | 35 | 9 | 10 | 15 | 20 | 26 | 35 | 41 | 45 |
| Duo fluorescent lamps – circuit (series compensated) | I_e [A] | 20 | 26 | 35 | 5.5 | 8 | 13 | 15 | 22.5 | 29 | 36 | 47 |
| Electronic upstream devices | I_e [A] | 12 | 18 | 20 | 5 | 6.5 | 8.5 | 12 | 17.5 | 22.5 | 28 | 35 |
| High-pressure mercury-arc lamps | I_e [A] | 12 | 18 | 20 | 3.5 | 6 | 10 | 12 | 17.5 | 20 | 25 | 30 |
| Metal halide lamps | I_e [A] | 12 | 18 | 20 | 3.5 | 6 | 10 | 12 | 17.5 | 20 | 25 | 30 |
| High-pressure sodium lamps | I_e [A] | 12 | 18 | 20 | 3.5 | 6 | 10 | 12 | 17.5 | 20 | 25 | 30 |
| Low-pressure sodium lamps | I_e [A] | 7.5 | 10 | 12 | 3 | 4 | 6 | 7.5 | 10 | 12 | 15 | 22 |

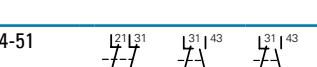
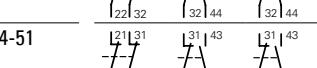
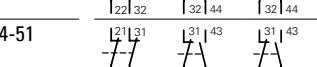
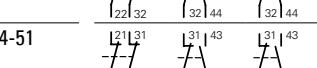
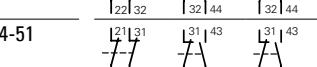
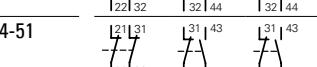
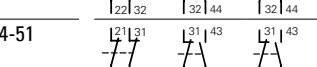
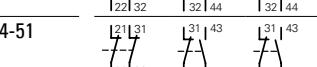
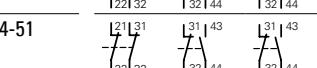
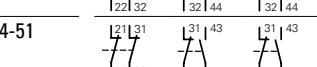
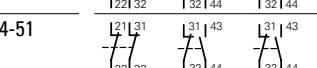
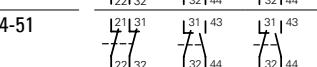
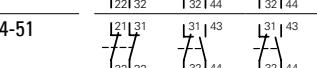
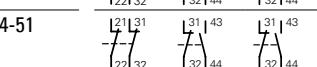
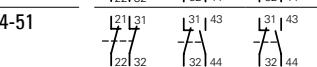
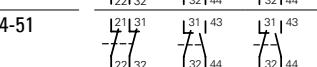
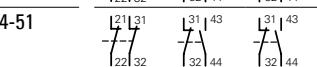
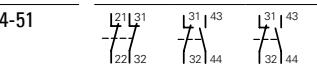
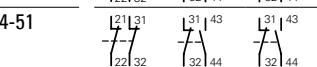
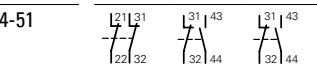
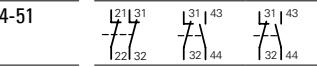
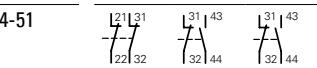
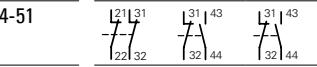
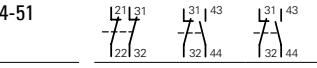
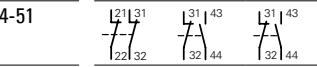
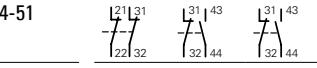
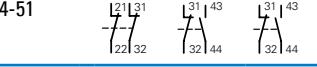
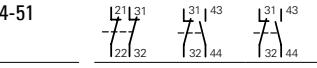
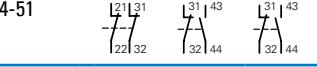
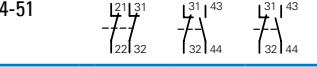
| | DIL | M65 | M80 | M95 | M115 | M150 | M185A | M225A | M250 | M300A | M400 | M500 |
|--|----------------|------|-----|------|------|------|-------|-------|------|-------|------|------|
| Permissible compensation capacitance | C_{max} [mF] | 500 | 550 | 620 | 830 | 970 | 2055 | 2300 | 2600 | 3000 | 3250 | 3500 |
| Filament lamps | I_e [A] | 55 | 67 | 79 | 95 | 125 | 153 | 187 | 208 | 249 | 332 | 415 |
| Mercury blended lamps | I_e [A] | 45 | 65 | 67 | 80 | 110 | 123 | 150 | 167 | 200 | 266 | 332 |
| Conventional fluorescent lamps – reactor – starter – circuit | I_e [A] | 55 | 95 | 100 | 125 | 145 | 207 | 237 | 263 | 300 | 375 | 525 |
| Duo fluorescent lamps – circuit (series compensated) | I_e [A] | 59 | 71 | 95 | 100 | 138 | 186 | 213 | 236 | 270 | 338 | 473 |
| Electronic upstream devices | I_e [A] | 45.5 | 56 | 66.5 | 80.5 | 105 | 130 | 158 | 175 | 210 | 280 | 350 |
| High-pressure mercury-arc lamps | I_e [A] | 36 | 55 | 60 | 80 | 95 | 138 | 158 | 175 | 200 | 250 | 350 |
| Metal halide lamps | I_e [A] | 36 | 55 | 60 | 80 | 95 | 138 | 158 | 175 | 200 | 250 | 350 |
| High-pressure sodium lamps | I_e [A] | 36 | 55 | 60 | 80 | 95 | 138 | 158 | 175 | 200 | 250 | 350 |
| Low-pressure sodium lamps | I_e [A] | 25 | 35 | 40 | 50 | 70 | 100 | 111 | 123 | 140 | 175 | 245 |

In the case of compensated lamps, the sum of the capacitances must not exceed the max. permissible capacitor load (C_{max}) of the contactors!
The values given in the table apply to each contact in the contactors.

| Rated operational current AC-3 | Max. rated operational power of three-phase motors: 50 - 60 Hz AC-3 | | | | Max. Changeover time s | Part no. Article no. |
|---|---|-------------|---------|-------------|------------------------|--|
| 380 V 400 V | 220 V 230 V | 380 V 400 V | 500 V | 660 V 690 V | | |
| I _e A | P kW | P kW | P kW | P kW | | |
| SDAINL star-delta combinations | | | | | | |
| Operating frequency: max. 30 starts per hour | | | | | | |
|  | | | | | | |
| 12 | 3 | 5.5 | 5.5 | 5.5 | < 20 | SDAINLM12(230V50HZ,240V60HZ) 278286 |
| 16 | 4 | 7.5 | 7.5 | 7.5 | < 20 | SDAINLM16(230V50HZ,240V60HZ) 278311 |
| 22 | 5.5 | 11 | 11 | 11 | < 20 | SDAINLM22(230V50HZ,240V60HZ) 278336 |
| 30 | 7.5 | 15 | 18.5 | 18.5 | < 20 | SDAINLM30(230V50HZ,240V60HZ) 278361 |
| 45 | 11 | 22 | 30 | 22 | < 20 | SDAINLM45(230V50HZ,240V60HZ) 278386 |
| 55 | 15 | 30 | 37 | 30 | < 20 | SDAINLM55(230V50HZ,240V60HZ) 278411 |
| 70 | 18.5 | 37 | 45 | 37 | < 20 | SDAINLM70(230V50HZ,240V60HZ) 239895 |
| 90 | 22 | 45 | 55 | 45 | < 20 | SDAINLM90(230V50HZ,240V60HZ) 239937 |
| 115 | 30 | 55 | 75 | 55 | < 20 | SDAINLM115(230V50HZ,240V60HZ) 239963 |
| 140 | 37 | 75 | 90 | 90 | < 20 | SDAINLM140(230V50HZ,240V60HZ) 240009 |
| 165 | 45 | 90 | 110 | 132 | < 20 | SDAINLM165(230V50HZ,240V60HZ) 240035 |
| 200 | 55 | 110 | 132 | 160 | < 20 | SDAINLM200(230V50HZ,240V60HZ) 101010 |
| 260 | 75 | 132 | 160 | 160 | < 20 | SDAINLM260(230V50HZ,240V60HZ) 101031 |

Components for self-assembly of star-delta combinations

Max. rated operational power of three-phase motors: 50 - 60 Hz

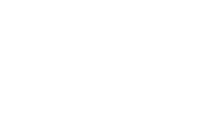
| AC-3 | | | | | Changeover time ¹⁾ | | | Individual combination components | | | Spare auxiliary contacts | | | |
|-------|-------|-------|-------|--------|-------------------------------|------------|------------|-----------------------------------|---------------------|--------------------|--------------------------|---|---|---|
| 230 V | 400 V | 500 V | 690 V | 1000 V | up to 12 s | up to 20 s | up to 30 s | Mains contactor Q11 | Delta contactor Q15 | Star contactor Q13 | Timing relay K1 | Q11 | Q15 | Q13 |
| kW | kW | kW | kW | kW | Part no. | DIL | Part no. | Part no. | Part no. | Part no. | Part no. | | | |
| 90 | 160 | 200 | 250 | 132 | ● | ● | ● | M185A/22 | M185A/22 | M115/22 | ETR4-51 |  |  |  |
| 110 | 200 | 250 | 315 | 160 | ● | ● | - | M225A/22 | M225A/22 | M150/22 | ETR4-51 |  |  |  |
| 132 | 250 | 315 | 400 | 200 | ● | ● | ● | M250/22 | M250/22 | M185A/22 | ETR4-51 |  |  |  |
| 160 | 300 | 355 | 450 | 200 | ● | ● | ● | M300A/22 | M300A/22 | M185A/22 | ETR4-51 |  |  |  |
| 200 | 355 | 450 | 560 | 220 | ● | ● | - | M400/22 | M400/22 | M250/22 | ETR4-51 |  |  |  |
| 250 | 450 | 560 | 600 | 220 | ● | ● | ● | M500/22 | M500/22 | M300A/22 | ETR4-51 |  |  |  |
| 300 | 560 | 710 | 900 | 355 | ● | ● | ● | M580/22 | M580/22 | M400/22 | ETR4-51 |  |  |  |
| 350 | 630 | 750 | 950 | 355 | ● | ● | ● | M650/22 | M650/22 | M400/22 | ETR4-51 |  |  |  |
| 400 | 710 | 900 | 1200 | 1400 | ● | ● | ● | M750/22 | M750/22 | M580/22 | ETR4-51 |  |  |  |
| 450 | 800 | 950 | 1300 | 1400 | ● | ● | ● | M820/22 | M820/22 | M580/22 | ETR4-51 |  |  |  |
| 560 | 1000 | 1200 | 1700 | 1700 | ● | ● | - | M1000/22 | M1000/22 | M650/22 | ETR4-51 |  |  |  |

Note¹⁾ Longer changeover times available on request

Contactors

Reversing combinations

Moeller series

| Rated operational current AC-3 380 V 400 V I_e A | Max. rated operational power of three-phase motors: 50 - 60 Hz | | | | | | | Part no. Article no. | |
|---|--|------------------------|------------------------|------------------------|------------------------|------------------------|-----|--|--|
| | AC-3 | | | AC-4 | | | | | |
| | 220 V 230 V P kW | 380 V 400 V P kW | 660 V 690 V P kW | 220 V 230 V P kW | 380 V 400 V P kW | 660 V 690 V P kW | | | |
| DIUL reversing combinations | | | | | | | | | |
|  | 9 | 2.2 | 4 | 4 | 1.5 | 3 | 3 | DIULEM/21/MV(230V50HZ,240V60HZ) 051849 | |
|  | 9 | 2.2 | 4 | 4 | 1.5 | 3 | 3 | DIULEM/21/MV-G(24VDC) 214655 | |
|  | 7 | 2.2 | 3 | 3.5 | 1 | 2.2 | 2.9 | DIULM7/21(230V50HZ,240V60HZ) 278061 | |
|  | 7 | 2.2 | 3 | 3.5 | 1 | 2.2 | 2.9 | DIULM7/21(24VDC) 107021 | |
|  | 9 | 2.5 | 4 | 4.5 | 1.5 | 2.5 | 3.6 | DIULM9/21(230V50HZ,240V60HZ) 278086 | |
|  | 9 | 2.5 | 4 | 4.5 | 1.5 | 2.5 | 3.6 | DIULM9/21(24VDC) 107022 | |
|  | 12 | 3.5 | 5.5 | 6.5 | 2 | 3 | 4.4 | DIULM12/21(230V50HZ,240V60HZ) 278111 | |
|  | 12 | 3.5 | 5.5 | 6.5 | 2 | 3 | 4.4 | DIULM12/21(24VDC) 107023 | |
|  | 18 | 5 | 7.5 | 11 | 2.5 | 4.5 | 6.5 | DIULM17/21(230V50HZ,240V60HZ) 278136 | |
|  | 18 | 5 | 7.5 | 11 | 2.5 | 4.5 | 6.5 | DIULM17/21(RDC24) 107024 | |
|  | 25 | 7.5 | 11 | 14 | 3.5 | 6 | 8.5 | DIULM25/21(230V50HZ,240V60HZ) 278161 | |
|  | 25 | 7.5 | 11 | 14 | 3.5 | 6 | 8.5 | DIULM25/21(RDC24) 107025 | |
| | 32 | 10 | 15 | 17 | 4 | 7 | 10 | DIULM32/21(230V50HZ,240V60HZ) 278186 | |
| | 32 | 10 | 15 | 17 | 4 | 7 | 10 | DIULM32/21(RDC24) 107026 | |
| | 40 | 12.5 | 18.5 | 23 | 5 | 9 | 12 | DIULM40/11(230V50HZ,240V60HZ) 278211 | |
| | 50 | 15.5 | 22 | 30 | 6 | 10 | 14 | DIULM50/11(230V50HZ,240V60HZ) 278236 | |
| | 65 | 20 | 30 | 35 | 7 | 12 | 17 | DIULM65/11(230V50HZ,240V60HZ) 278261 | |

Contacts
 N/O = normally open
 N/O_E = N/O early-make
 N/C = normally closed
 N/C_L = N/C late-break ⊖

For use with

Part no.

Article no.

SmartWire-DT contactor modules

For connecting contactors to SmartWire-DT
 One module is needed for each contactor.



Messages
 Switch state of the contactor, status of the digital inputs 1 and 2
Contactor control commands
Messages
 Switch state of the contactor, status of digital inputs 1 and 2, switch state of the 1-0-A switch
Contactor control commands

DILM7..(-PI) - DILM38..(-PI)
 DILA..(-PI)
 DILMP..(-PI)
 MSC-D(R)..(24VDC)-PI

DIL-SWD-32-001

118560

DIL-SWD-32-002

118561

Auxiliary contact modules

with positive-opening contacts, except for ...XHI(C)V

Top-mounting auxiliary contacts

Screw terminals



| | |
|-------|-------|
| 1 N/O | 1 N/C |
| - | 2 N/C |

DILM7-10...
 DILM9-10...
 DILM12-10...
 DILM15-10...
 DILM17-10...
 DILM25-10...
 DILM32-10...
 DILM38-10...
 DILMP20...
 DILMP32-10...
 DILMP45-10...

DILM32-XHI11

277376

DILM32-XHI02

277375



| | |
|-------|-------|
| 2 N/O | 2 N/C |
| 3 N/O | 1 N/C |

DILM32-XHI22

277377

DILM32-XHI31

106112



| | |
|-------|-------|
| 1 N/O | 1 N/C |
| - | 2 N/C |

DILM7-10.. (-PI)
 DILM9-10.. (-PI)
 DILM12-10.. (-PI)
 DILM15-10.. (-PI)
 DILMP20.. (-PI)

DILM12-XHI11-PI

199456

| | |
|-------|-------|
| 2 N/O | 2 N/C |
| 3 N/O | 1 N/C |

DILM12-XHI02-PI

199457

| | |
|-------|-------|
| 1 N/O | 1 N/C |
| - | 2 N/C |

DILM12-XHI22-PI

199458

| | |
|-------|-------|
| 2 N/O | 2 N/C |
| 3 N/O | 1 N/C |

DILM12-XHI31-PI

199459



| | |
|-------|-------|
| 1 N/O | 1 N/C |
| - | 2 N/C |

DILM7-10.. (-PI)
 DILM9-10.. (-PI)
 DILM12-10.. (-PI)
 DILM15-10.. (-PI)
 DILMP20.. (-PI)
 DILM17-11.. (-PI)
 DILM25-11.. (-PI)
 DILM32-11.. (-PI)
 DILM38-11.. (-PI)
 DILMP32..(-PI)
 DILMP45..(-PI)

DILM32-XHI11-PI

199309

DILM32-XHI02-PI

199310

DILM32-XHI22-PI

199311

DILM32-XHI31-PI

199312



| | |
|-------|-------|
| 2 N/O | - |
| 1 N/O | 1 N/C |
| - | 2 N/C |

DILA
 DILM7...
 DILM9...
 DILM12...
 DILM15...
 DILM17...
 DILM25...
 DILM32...
 DILM38

DILA-XHI20

276422

DILA-XHI11

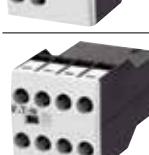
276421

DILA-XHI02

276420

DILA-XHIV11

276423



| | |
|--------------------|--------------------|
| 4 N/O | - |
| 3 N/O | 1 N/C |
| 2 N/O | 2 N/C |
| 1 N/O | 3 N/C |
| - | 4 N/C |
| 1 N/O | 1 N/C |
| 1 N/O _E | 1 N/C _L |

DILMP20...
 DILMP32...
 DILMP45...

DILA-XHI40

276428

DILA-XHI31

276427

DILA-XHI22

276426

DILA-XHI13

276425

DILA-XHI04

276424

DILA-XHIV22

276429

Contactors

Auxiliary contact modules

Moeller series

| Contacts | For use with | Part no. | Article no. | | |
|--|---|---|---|--|--|
| N/O = normally open N/O _E = N/O early-make N/C = normally closed N/C _L = N/C late-break ⊖ | | | | | |
| Auxiliary contact modules | | | | | |
| with positive-opening contacts, except for ...XHIV | | | | | |
| Top-mounting auxiliary contacts | | | | | |
| Screw terminals | 1 N/O (for electronic applications) | 1 N/C (for electronic applications) | DILA DILM7... DILM9... DILM12... DILM15... DILM17... DILM25... DILM32... DILM38 DILMP20 DILMP32... DILMP45... | DILA-XHIR11 | 110140 |
|  | | | | | |
|  | 2 N/O (1 N/O via microswitch for electronic applications) | 2 N/C (1 N/C via microswitch for electronic applications) | | | |
| Push-in terminals | 2 N/O 1 N/O - 1 N/O _E 4 N/O 3 N/O 2 N/O 1 N/O - 1 N/O 1 N/O _E | - 1 N/C 2 N/C 1 N/C _L - 1 N/C 2 N/C 3 N/C - 1 N/C 1 N/C _L | DILA..(-PI) DILM7..(-PI) up to DILM15..(-PI) DILM8..-PI up to DILM14..-PI DILM17..(-PI) up to DILM38..(-PI) DILMP20..(-PI) to DILMP45..(-PI) DILL.. DILMF8.. up to DILMF14.. DILMF17.. up to DILMF32.. | DILA-XHI20-PI DILA-XHI11-PI DILA-XHI02-PI DILA-XHIV11-PI DILA-XHI40-PI DILA-XHI31-PI DILA-XHI22-PI DILA-XHI13-PI DILA-XHI04-PI DILA-XHIV22-PI | 199313 199314 199315 199316 199317 199318 199319 199320 199321 199322 |
|  | | | | | |
| Screw terminals | 2 N/O 1 N/O 1 N/O - 4 N/O 3 N/O 2 N/O 2 N/O 1 N/O - 1 N/O 1 N/O _E | - 1 N/C 1 N/C 2 N/C - 1 N/C 2 N/C 2 N/C 3 N/C - 1 N/C 1 N/C _L | DILM40 DILM50 DILM65 DILM72... DILM80 DILM95 DILM115 DILM150 DILM170... DILMP63... DILMP80... DILMP125... DILMP160... DILMP200... | DILM150-XH120 DILM150-XHI11 DILM150-XHIA11 DILM150-XHI02 DILM150-XHI40 DILM150-XHI31 DILM150-XH122 DILM150-XHIA22 DILM150-XHI13 DILM150-XHI04 DILM150-XHIV22 | 277945 277946 283463 277947 277948 277949 277950 283464 277951 277952 277953 |
|  | | | | | |
|  | | | | | |

| Contacts | For use with | Part no. | Article no. | |
|--|--------------------------------------|---|---|----------------------------|
| N/O = normally open N/O _E = N/O early-make N/C = normally closed N/C _L = N/C late-break ⊖ | | | | |
| Auxiliary contact modules | | | | |
| with positive-opening contacts, except for ...XHIV | | | | |
| Lateral auxiliary contacts | | | | |
| Screw terminals | 1 N/O - 1 N/C | DILM7... DILM9... DILM12... DILM15... DILMP20... DILA... | DILA-XHI10-S DILA-XHI01-S | 115948 115949 |
|  | | | | |
|  | 1 N/O 1 N/C | DILM17... DILM25... DILM32... DILM38... | DILM32-XHI11-S | 101371 |
| | 1 N/O 1 N/C 1 N/O _E | DILM250 - DILH2600 | DILM820-XHI11-SI DILM820-XHI11-SA DILM820-XHI11V-SI | 208281 208282 208283 |
|  | 1 N/O 1 N/O _E 1 N/O | DILM40 - DILM225A DILMP63 - DILMP200 | DILM1000-XHI11-SI DILM1000-XHIV11-SI DILM1000-XHI11-SA | 278425 278426 278427 |
| Push-in terminals | 1 N/O - 1 N/C | DILM7..(-PI) up to DILM15..(-PI) DILA..(-PI) | DILA-XHI10-S-PI DILA-XHI01-S-PI | 199323 199324 |
|  | | | | |

Contactors

Suppressor circuits

Moeller series

| For use with | AC operation 230 V 50 Hz, 240 V 60 Hz Part no. Article no. | AC operation 110 V 50 Hz, 120 V 60 Hz Part no. Article no. | DC operation 24 V DC Part no. Article no. | |
|---|--|--|--|------------------------------|
| Suppressor circuits | | | | |
| RC suppressors | | | | |
|  | DILM7 ..(-PI) - DILM15 ..(-PI) DILMP20 ..(-PI) DILA ..(-PI) DILM8..-PI - DILM14..-PI DILM17 ..(-PI) - DILM32 ..(-PI) DILMP32 ..(-PI) - DILMP45 ..(-PI) DILM40 - DILM95 DILMP63 - DILMP200 | DILM12-XSPR240 281200 DILM32-XSPR240 281203 DILM95-XSPR240 281206 | DILM12-XSPR240 281200 DILM32-XSPR240 281203 DILM95-XSPR240 281206 | - |
| Varistor suppressors | | | | |
|  | DILM7 ..(-PI) - DILM15 ..(-PI) DILMP20 ..(-PI) DILA ..(-PI) DILM8..-PI - DILM14..-PI DILM17 ..(-PI) - DILM32 ..(-PI) DILMP32 ..(-PI) - DILMP45 ..(-PI) DILM40 - DILM95 DILMP63 - DILMP200 | DILM12-XSPV240 281210 DILM32-XSPV240 281214 DILM95-XSPV240 281218 | DILM12-XSPV130 281209 DILM32-XSPV130 281213 DILM95-XSPV130 281217 | - |
| Varistor suppressors with integrated LED | | | | |
|  | DILM7 ..(-PI) - DILM12 ..(-PI) DILMP20 ..(-PI) DILA ..(-PI) DILM8..-PI - DILM14..-PI DILM17 ..(-PI) - DILM32 ..(-PI) DILMP32 ..(-PI) - DILMP45 ..(-PI) DILM40 - DILM95 DILMP63 - DILMP200 | DILM12-XSPVL240 281221 DILM32-XSPVL240 281223 DILM95-XSPVL240 281225 | DILM12-XSPVL240 281221 DILM32-XSPVL240 281223 DILM95-XSPVL240 281225 | - |
| Diode suppressor | | | | |
|  | DILM7 ..(-PI) - DILM15 ..(-PI) DILMP20 ..(-PI) DILA ..(-PI) | - | - | DILM12-XSPD 101672 |

| | For use with | Part no. Article no. |
|---|--|------------------------------|
| Mechanical interlock | | |
|  | DILM7..(-PI) - DILM15..(-PI) DILMP20..(-PI) DILA..(-PI) | DILM12-XMV 281196 |
|  | DILM17..(-PI) - DILM38..(-PI) DILMP32..(-PI) - DILMP45..(-PI) | DILM32-XMV 281197 |
| | DILM40 - DILM72 DILMP63 - DILMP80 | DILM65-XMV 281198 |
| | DILM80 - DILM170 DILMP125 - DILMP200 | DILM150-XMV 240081 |
|  | DILM185A, DILM225A, DILM250, DILM300A, DILM400, DILM500 | DILM500-XMV 208289 |
| | DILM580, DILM650 DILM750, DILM820 DILM1000 | DILM820-XMV 208288 |
| Paralleling link for main contacts consisting of two paralleling links | | |
|  | DILM7 - DILM15 | DILM12-XP1 281193 |
|  | DILM17 - DILM32 | DILM32-XP1 281194 |
| | DILM40 - DILM72 | DILM65-XP1 281195 |
| | DILM80 - DILM170 | DILM150-XP1 284769 |
| | DILM185A | DILM185-XP1 208292 |
| Star-point bridges | | |
|  | DILM7 - DILM15 | DILM12-XS1 281190 |
|  | DILM17 - DILM32 | DILM32-XS1 281191 |
| | DILM40 - DILM72 | DILM65-XS1 281192 |
| | DILM80 - DILM170 | DILM150-XS1 284768 |
| | DILM185A - DILM400 | DILM400-XS1 208291 |
|  | DILM500 | DILM500-XS1 208290 |

Contactors

Accessories

Moeller series

| | For use with | Part no. Article no. |
|--|--|---------------------------------|
| Star-delta wiring kits, including star-point bridge | | |
| Main power wiring for star-delta combination | Mains contactor DILM7/9/12/15-10..(-PI) Delta contactor DILM7/9/12/15-01..(-PI) Star contactor DILM7/9/12/15-01..(-PI) | DILM12-XSL 283130 |
|  | Mains contactor DILM17/25/32 Delta contactor DILM17/25/32 Star contactor DILM17/25/32 | DILM32-XSL 283131 |
| | Mains contactor DILM17/25/32-11..-PI Delta contactor DILM17/25/32-11..-PI Star contactor DILM17/25/32-11..-PI | DILM32-XSL-PI 199461 |
| | Mains contactor DILM40/50/65 Delta contactor DILM40/50/65 Star contactor DILM40/50/65 | DILM65-XSL 101058 |
| Reversing wiring kits | | |
| Main power wiring for reversing combination | DILM7..-01(-PI) DILM9..-01(-PI) DILM12..-01(-PI) | DILM12-XRL 283108 |
|  | DILM17 DILM25 DILM32 | DILM32-XRL 283109 |
| | DILM17-11..-PI DILM25-11..-PI DILM32-11..-PI | DILM32-XRL-PI 199460 |
| | DILM40 DILM50 DILM50 | DILM65-XRL 101057 |
| IP2X cover | | |
|  | DILM17 DILM25 DILM32 DILM38 DILMP32 DILMP45 | DILM32-XIP2X 118855 |
|  | DILM40 DILM50 DILM65 DILM72 DILMP63 DILMP80 | DILM65-XIP2X 106491 |
| | DILM80 DILM95 DILM115 DILM150 DILM170 DILMP125 DILMP160 DILMP200 ZB150 | DILM150-XIP2X 106492 |
| Covers | | |
|  | DILM185A DILM225A Z5... FF225A | DILM225A-XHB 139560 |
| | DILM250 DILM300A DILM400 | DILM400-XHB 208287 |
| | DILM500 DILM570 | DILM500-XHB 208286 |
| | DILM580 DILM650 | DILM650-XHB 208285 |
| | DILM750 DILM820, DILM1000 | DILM820-XHB 208284 |
| Cable terminal block | | |
| With control circuit terminal consisting of 3 box terminals Connection options: round conductors, flexible and stranded, strip conductors. | DILM185A DILM225A | DILM225A-XKU-S 139561 |
|  | DILM250 DILM300A DILM400 | DILM400-XKU-S 208293 |



Setting range
Overload release

I_r

A



| For use with | |
|---------------------|--------------------|
| DILEM | |
| Part no. | Article no. |

| DILM7 - DILM15 | |
|-----------------------|--------------------|
| Part no. | Article no. |

| DILM17 - DILM38 | |
|------------------------|--------------------|
| Part no. | Article no. |

| DILM40 - DILM72 | |
|------------------------|--------------------|
| Part no. | Article no. |

| DILM80 - DILM170 | |
|-------------------------|--------------------|
| Part no. | Article no. |

ZE, ZB bimetal relays

| | | | | | | | | | | |
|-------------|----------------|--------|------------------|--------|------------------|--------|------------------|--------|------------------|--------|
| 0.1 - 0.16 | ZE-0,16 | 014263 | ZB12-0,16 | 278431 | ZB32-0,16 | 278442 | - | - | - | - |
| 0.16 - 0.24 | ZE-0,24 | 014285 | ZB12-0,24 | 278432 | ZB32-0,24 | 278443 | - | - | - | - |
| 0.24 - 0.4 | ZE-0,4 | 014300 | ZB12-0,4 | 278433 | ZB32-0,4 | 278444 | - | - | - | - |
| 0.4 - 0.6 | ZE-0,6 | 014333 | ZB12-0,6 | 278434 | ZB32-0,6 | 278445 | - | - | - | - |
| 0.6 - 1 | ZE-1,0 | 014376 | ZB12-1 | 278435 | ZB32-1 | 278446 | - | - | - | - |
| 1 - 1.6 | ZE-1,6 | 014432 | ZB12-1,6 | 278436 | ZB32-1,6 | 278447 | - | - | - | - |
| 1.6 - 2.4 | ZE-2,4 | 014479 | ZB12-2,4 | 278437 | ZB32-2,4 | 278448 | - | - | - | - |
| 2.4 - 4 | ZE-4 | 014518 | ZB12-4 | 278438 | ZB32-4 | 278449 | - | - | - | - |
| 4 - 6 | ZE-6 | 014565 | ZB12-6 | 278439 | ZB32-6 | 278450 | - | - | - | - |
| 6 - 9 | ZE-9 | 014708 | - | - | ZB32-10 | 278451 | ZB65-10 | 278455 | - | - |
| 6 - 10 | - | - | ZB12-10 | 278440 | - | - | - | - | - | - |
| 9 - 12 | ZE-12 | 014752 | ZB12-12 | 278441 | - | - | ZB65-16 | 278456 | - | - |
| 10 - 16 | - | - | - | - | - | - | ZB65-24 | 278457 | - | - |
| 12 - 16 | - | - | ZB12-16 | 290168 | - | - | - | - | - | - |
| 16 - 24 | - | - | - | - | ZB32-24 | 278453 | ZB65-40 | 278458 | - | - |
| 24 - 32 | - | - | - | - | ZB32-32 | 278454 | - | - | - | - |
| 24 to 40 | - | - | - | - | ZB32-38 | 112474 | - | - | ZB150-50 | 278462 |
| 32 - 38 | - | - | - | - | - | - | ZB65-57 | 278459 | - | - |
| 35 - 50 | - | - | - | - | - | - | ZB65-65 | 278460 | - | - |
| 40 to 57 | - | - | - | - | - | - | ZB65-75 | 108792 | ZB150-70 | 278463 |
| 50 - 65 | - | - | - | - | - | - | - | - | - | - |
| 50 to 70 | - | - | - | - | - | - | ZB150-100 | 278464 | ZB150-125 | 278465 |
| 65 - 75 | - | - | - | - | - | - | ZB150-150 | 278466 | ZB150-175 | 107316 |
| 70 - 100 | - | - | - | - | - | - | - | - | - | - |
| 95 - 125 | - | - | - | - | - | - | - | - | - | - |
| 120 - 150 | - | - | - | - | - | - | - | - | - | - |
| 145 - 175 | - | - | - | - | - | - | - | - | - | - |

Motor-protection relays

Bimetal relays, thermistor motor protection relay

Moeller series

| Setting range of overload release I_r A | For use with | Part no. | Article no. |
|---|---|--------------------------------|--|
|  | | | |
| Z5 bimetal relays | | | |
|  | 50 - 70 70 - 100 95 - 125 120 - 160 160 - 220 200 - 250 | DILM185A DILM225A | Z5-70/FF225A 139572 Z5-100/FF225A 139573 Z5-125/FF225A 139574 Z5-160/FF225A 139575 Z5-220/FF225A 139576 Z5-250/FF225A 139577 |
|  | 50 - 70 70 - 100 95 - 125 120 - 160 160 - 220 200 - 250 200 - 300 | DILM250 DILM250 DILM300A | Z5-70/FF250 210070 Z5-100/FF250 210071 Z5-125/FF250 210072 Z5-160/FF250 210073 Z5-220/FF250 210074 Z5-250/FF250 210075 Z5-300/FF250 139578 |

| Function | Part no. | Article no. |
|---|-----------------------------|----------------------------|
| EMT6 thermistor motor-protection relays | | |
|  | EMT6 EMT6(230V) EMT62 | 066166 066400 171889 |
| Without manual reset Mains and fault LED indicator | EMT6-K | 269470 |
| Without manual reset Mains and fault LED indicator With 2 sensor circuits | EMT6-DB EMT6-DB(230V) | 066167 066401 |
| Without manual reset Mains and fault LED indicator Trips in the event of a short circuit in the sensor cable | EMT6-DB EMT6-DB(230V) | 066167 066401 |
| Switchable with/without manual reset For manual or remote reset Test button Mains and fault LED indicator | EMT62-DB | 171890 |
| Switchable with/without manual reset For manual or remote reset Test button Mains and fault LED indicator With 2 sensor circuits | EMT6-KDB | 269471 |
| Switchable with/without manual reset For manual or remote reset Test button Mains and fault LED indicator Trips in the event of a short circuit in the sensor cable | EMT6-DBK | 066168 |
| Multifunctional device Switchable with/without manual reset Trips in the event of a short circuit in the sensor cable Fail-safe For manual or remote reset Test button Short-circuit detection and fail-safe operation can be switched off Mains and fault LED indicator | | |



| | | For use with DILM7 - DILM15 | DILM17 - DILM38 | DILM40 - DILM72 | DILM80 - DILM150 | DILM185A - DILM225A |
|--------------------------------|---|--------------------------------|-----------------------------------|-------------------------------|-----------------------------------|---------------------------------|
| Earth fault monitoring | Setting range Overload release I_r A | Part no. Article no. | Part no. Article no. | Part no. Article no. | Part no. Article no. | Part no. Article no. |
| | | | | | | |
| ZEB electronic overload relays | | | | | | |
| Direct mounting | | | | | | |
| None | 0.33 - 1.65 | ZEB12-1,65 136480 | ZEB32-1,65 136486 | - | - | - |
| | 1 - 5 | ZEB12-5 136481 | ZEB32-5 136487 | - | - | - |
| | 4 - 20 | ZEB12-20 136482 | ZEB32-20 136488 | - | - | - |
| | 9 - 45 | - | ZEB32-45 136489 | ZEB65-45 136502 | - | - |
| | 20 - 100 | - | - | ZEB65-100 136504 | ZEB150-100 136506 | - |
| | 35 - 175 | - | - | - | ZEB150-175 164303 | ZEB225A-175 164307 |
| With | 0.33 - 1.65 | ZEB12-1,65-GF 136483 | ZEB32-1,65-GF 136490 | - | - | - |
| | 1 - 5 | ZEB12-5-GF 136484 | ZEB32-5-GF 136491 | - | - | - |
| | 4 - 20 | ZEB12-20-GF 136485 | ZEB32-20-GF 136492 | - | - | - |
| | 9 - 45 | - | ZEB32-45-GF 136493 | ZEB65-45-GF 136503 | - | - |
| | 20 - 100 | - | - | ZEB65-100-GF 136505 | ZEB150-100-GF 136507 | - |
| | 35 - 175 | - | - | - | ZEB150-175-GF 164304 | ZEB225A-175-GF 164308 |
| Stand-alone installation | | | | | | |
| None | 0.33 - 1.65 | - | ZEB32-1,65/KK 136494 | - | - | - |
| | 1 - 5 | - | ZEB32-5/KK 136495 | - | - | - |
| | 4 - 20 | - | ZEB32-20/KK 136496 | - | - | - |
| | 9 - 45 | - | ZEB32-45/KK 136497 | - | - | - |
| | 20 - 100 | - | - | - | ZEB150-100/KK 136508 | - |
| | 35 - 175 | - | - | - | ZEB150-175/KK 164305 | - |
| With | 0.33 - 1.65 | - | ZEB32-1,65-GF/KK 136498 | - | - | - |
| | 1 - 5 | - | ZEB32-5-GF/KK 136499 | - | - | - |
| | 4 - 20 | - | ZEB32-20-GF/KK 136500 | - | - | - |
| | 9 - 45 | - | ZEB32-45-GF/KK 136501 | - | - | - |
| | 20 - 100 | - | - | - | ZEB150-100-GF/KK 136509 | - |
| | 35 - 175 | - | - | - | ZEB150-175-GF/KK 164306 | - |