

DILM7 ... DILM170

Moeller HPL0211-2007/2008

http://catalog.moeller.net

| | | | DILM7 | DILM9 | DILM12 | DILM15 | DILM17 | DILM25 |
|----------------------------------------------------------------------------|----------------------------------------|-------------------|----------------------------------------------------------------------------------|----------|----------|--------------------------------------|----------|----------|
| General | | | | | | | | |
| Standards | | | IEC/EN 60947, VDE 0660, UL, CSA | | | | | |
| Lifespan, mechanical | | | | | | | | |
| AC operated | Operations | × 10 ⁶ | 10 | 10 | 10 | 10 | 10 | 10 |
| DC operated | Operations | × 10 ⁶ | 10 | 10 | 10 | 10 | 10 | 10 |
| Operating frequency, mechanical | | | | | | | | |
| Lifespan, mechanical | Operations/h | | 9000 | 9000 | 9000 | 5000 | 5000 | 5000 |
| DC operated | Operations/h | | 9000 | 9000 | 9000 | 5000 | 5000 | 5000 |
| Maximum operating frequency electrical (Contactors without overload relay) | | | See characteristic curve | | | | | |
| Climatic proofing | | | Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclical, to IEC 60068-2-30 | | | | | |
| Ambient temperature | | | | | | | | |
| Open | | °C | 25...60 | 25...60 | 25...60 | 25...60 | 25...60 | 25...60 |
| Enclosed | | °C | 25...40 | 25...40 | 25...40 | 25...40 | 25...40 | 25...40 |
| Storage | | °C | -40...80 | -40...80 | -40...80 | -40...80 | -40...80 | -40...80 |
| Mounting position, AC- and DC operated | | | | | | | | |
| Mechanical shock resistance (IEC/EN 60068-2-27) | | | | | | | | |
| Half-sinusoidal shock, 10 ms | | | | | | | | |
| Main contacts | | | | | | | | |
| N/O contact | | g | 10 | 10 | 10 | 10 | 10 | 10 |
| Auxiliary contacts | | | | | | | | |
| N/O contact | | g | 7 | 7 | 7 | 7 | 7 | 7 |
| N/C contact | | g | 5 | 5 | 5 | 5 | 5 | 5 |
| Mechanical shock resistance (IEC/EN 60068-2-27) when tabletop-mounted | | | | | | | | |
| Half-sinusoidal shock, 10 ms | | | | | | | | |
| Main contacts | | | | | | | | |
| Thickness of material for busbar max. | | g | 5.7 | 5.7 | 5.7 | 5.7 | 6.9 | 6.9 |
| Auxiliary contacts | | | | | | | | |
| Min. rated current = rated uninterrupted current | | g | 3.4 | 3.4 | 3.4 | 3.4 | 5.3 | 5.3 |
| N/C contact | | g | 3.4 | 3.4 | 3.4 | 3.4 | 3.5 | 3.5 |
| Protection type | | | IP20 IP20 IP20 IP20 IP00 IP00 | | | | | |
| Protection against direct contact when actuated from front (IEC 536) | | | Finger- and back-of-hand proof | | | | | |
| Weight | | | | | | | | |
| AC operated | | kg | 0.23 | 0.23 | 0.23 | 0.23 | 0.42 | 0.42 |
| DC operated | | kg | 0.28 | 0.28 | 0.28 | 0.28 | 0.48 | 0.48 |
| Screw connector terminals | | | | | | | | |
| Terminal capacity main cable | | | | | | | | |
| Solid | | mm ² | 1 × (0.75 - 4) 2 × (0.75 - 2.5) | | | 1 × (0.75 - 16) 2 × (0.75 - 10) | | |
| Flexible with ferrule | | mm ² | 1 × (0.75 - 2.5) 2 × (0.75 - 2.5) | | | 1 × (0.75 - 16) 2 × (0.75 - 10) | | |
| Stranded | | mm ² | | | | 1 × 16 1 × 16 | | |
| Solid or stranded | | AWG | 18 - 10 18 - 10 18 - 10 18 - 10 | | | 18 - 6 18 - 6 | | |
| Flat conductor | Number of segments × width × thickness | mm | | | | | | |
| Terminal capacity control circuit cables | | | | | | | | |
| Solid | | mm ² | 1 × (0.75 - 4) 2 × (0.75 - 2.5) | | | 1 × (0.75 - 4) 2 × (0.75 - 4) | | |
| Flexible with ferrule | | mm ² | 1 × (0.75 - 1.5) 2 × (0.75 - 1.5) | | | 1 × (0.75 - 1.5) 2 × (0.75 - 1.5) | | |
| Solid or stranded | | AWG | 18 - 10 18 - 10 18 - 10 18 - 10 | | | 18 - 14 18 - 14 | | |

Contactors DILM, DILH



DILM7 ... DILM170

Moeller HPL0211-2007/2008

http://catalog.moeller.net

| DILM32 | DILM40 | DILM50 | DILM65 DILM72 | DILM80 | DILM95 | DILM115 | DILM150 | DILM170 |
|----------------------------------------------------------------------------------|----------|----------|-------------------------------------------------|----------|----------|-----------------------------------------|----------|----------|
| General | | | | | | | | |
| Standards | | | | | | | | |
| IEC/EN 60947, VDE 0660, UL, CSA | | | | | | | | |
| Lifespan, mechanical | | | | | | | | |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Operating frequency, mechanical | | | | | | | | |
| 5000 | 5000 | 5000 | 5000 | 3600 | 3600 | 3600 | 3600 | 3000 |
| 5000 | 5000 | 5000 | 5000 | 3600 | 3600 | 3600 | 3600 | 3000 |
| Maximum operating frequency electrical (Contactors without overload relay) | | | | | | | | |
| See characteristic curve | | | | | | | | |
| Climatic proofing | | | | | | | | |
| Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclical, to IEC 60068-2-30 | | | | | | | | |
| Ambient temperature | | | | | | | | |
| 25...60 | 25...60 | 25...60 | 25...60 | 25...60 | 25...60 | 25...60 | 25...60 | 25...60 |
| 25...40 | 25...40 | 25...40 | 25...40 | 25...40 | 25...40 | 25...40 | 25...40 | 25...40 |
| -40...80 | -40...80 | -40...80 | -40...80 | -40...80 | -40...80 | -40...80 | -40...80 | -40...80 |
| Mounting position, AC- and DC operated | | | | | | | | |
| | | | | | | | | |
| Mechanical shock resistance (IEC/EN 60068-2-27) | | | | | | | | |
| Half-sinusoidal shock, 10 ms | | | | | | | | |
| Main contacts | | | | | | | | |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Auxiliary contacts | | | | | | | | |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mechanical shock resistance (IEC/EN 60068-2-27) when tabletop-mounted | | | | | | | | |
| Half-sinusoidal shock, 10 ms | | | | | | | | |
| Main contacts | | | | | | | | |
| 6.9 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Auxiliary contacts | | | | | | | | |
| 5.3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 3.5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Protection type | | | | | | | | |
| IP00 | IP00 | IP00 | IP00 | IP00 | IP00 | IP00 | IP00 | IP00 |
| Protection against direct contact when actuated from front (IEC 536) | | | | | | | | |
| Finger- and back-of-hand proof | | | | | | | | |
| Weight | | | | | | | | |
| 0.42 | 0.9 | 0.9 | 0.9 | 2 | 2 | 2 | 2 | 2 |
| 0.48 | 1.1 | 1.1 | 1.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| Screw connector terminals | | | | | | | | |
| Terminal capacity main cable | | | | | | | | |
| 1 × (0.75 - 16) 2 × (0.75 - 16) | | | | | | | | |
| 1 × (0.75 - 35) 2 × (0.75 - 25) | | | | | | 1 × (10 - 95) 2 × (10 - 70) | | |
| 1 × 16 | | | 1 × (16 - 50) 2 × (16 - 35) | | | 1 × (16 - 95) 2 × (16 - 70) | | |
| 18 - 6 | | | 12 - 2 12 - 2 12 - 2 | | | 8...3/0 8...3/0 8...3/0 8...3/0 8...3/0 | | |
| | | | 2 × (6 × 9 × 0.8) | | | 2 × (6 × 16 × 0.8) | | |
| Terminal capacity control circuit cables | | | | | | | | |
| 1 × (0.75 - 4) 2 × (0.75 - 4) | | | 1 × (0.75 - 4) 2 × (0.75 - 4) | | | | | |
| 1 × (0.75 - 2.5) 2 × (0.75 - 2.5) | | | 1 × (0.75 - 2.5) 2 × (0.75 - 2.5) | | | | | |
| 18 - 14 | | | 18 - 14 18 - 14 18 - 14 18 - 14 18 - 14 18 - 14 | | | | | |

Contactors DILM, DILH

