

## Contactor DIL and motor-protective circuit-breaker PKZ compliant to the household appliance standard EN 60335



The term "domestic use" is very broadly formulated in the standard. The area of validity also encompasses appliances which are not exclusively intended for domestic use, but which still present a source of danger for the world at large. These are devices which are used and operated by persons in shops, in commercial enterprises or involved in agriculture – such as industrial kitchen equipment, convection ovens in supermarkets or filling stations, ice-makers, cleaning equipment for industrial and commercial purposes as well as appliances used by hairdressers.

### EN 60335 – switchgear for domestic use: Safety of household and similar electrical appliances.

Contactors and motor-protective circuit-breakers from Moeller are used both in industrial and domestic equipment. Electrical switchgear which is used in domestic equipment must comply both with the tests for the EN 60947 "Low-voltage switchgear and controlgear" as well as the EN 60335 "Safety of household and similar electrical appliances" standards.

The EN 60335 deals with the "Safety of household and similar electrical appliances" whose rated voltage does not exceed 250 V for single phase equipment and 480 V for other equipment. Appliances for domestic use, for example, are dish washers, ovens, room heating appliances, instantaneous water heaters and boilers, freezers or similar equipment.



Switchgear for domestic use must pass a supplementary test compliant to EN 60335 which relates to resistance to heat and fire (refractoriness). In the latest version of this standard from February 2007, a glow-wire test at 750 °C is prescribed for plastic components on appliances which conduct a current exceeding 0.2 A, and any resultant flames must quench within two seconds.

The Moeller products – motor-protective circuit-breakers PKZM0 and PKZM01, contactors DIL to 15 kW just as the respective overload relay Z – fully comply with the demands of the domestic equipment standard EN 60335. The corresponding Declarations of Conformity exist for our product.

**The demands of the domestic equipment standard EN 60335 are fulfilled by the following devices:**

|  |   |
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|  | <p>Contactors DILE ...<br/>Auxiliary contact modules ... DILE(M)</p>  |
|  | <p>Contactors DILA(C)-...<br/>Contactors DILM(C)7-... to DILM(C)15-...<br/>Contactors DILM(C)17-... to DILM(C)32-..., DILL ...,<br/>DILMF8-... to DILMF32-...<br/>Top mounting auxiliary components DILA-XHI(CV)...<br/>Top mounting auxiliary components DILM32-XHI(CV).</p> |
|  | <p>Overload relays ZE-...<br/>Overload relays ZB12-... to ZB32-...<br/>Separate mounting ZB32-XEZ</p>   |
|  | <p>Motor-protective circuit-breakers PKZM0<br/>and PKZM01<br/>Auxiliary contacts NHI11-PKZ0<br/>Three-phase commoning links B3...-PKZ0</p>  |