

Features

- Standards: IEC/EN 62423, IEC/EN 61009-1
- Poles: 1P+N, Single module (with switched neutral)
- Rated operated voltage: 230/240V~
- Rated current: 6~40A
- Rated breaking capacity: 10kA
- Residual current Type: B HP
- Tripping curves: B, C
- Rated sensitivity current: 30mA
- Incoming method: Form bottom





Technical Data

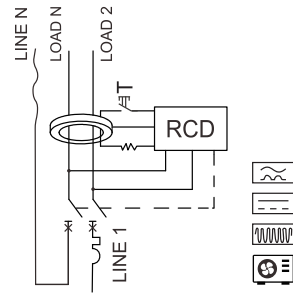
| | |
|---|---|
| Standard | IEC/EN 62423 (Type B) + IEC/EN 61009-1; Compliant with BS 7671 for heat pump use |
| Protection | Ground fault, Overcurrent and short circuit |
| Type of trip | Ground fault: Electronic Overload and short circuit: Thermo-magnetic |
| Residual current type | Type B HP - residual AC, pulsating DC and smooth DC; high-frequency immunity for inverter/heat-pump leakage |
| HF behavior (Type B HP) | Designed to tolerate switching noise $\geq 20\text{kHz}$; for $f \geq 1\text{kHz}$ uses a raised minimum tripping threshold, typically $\geq 150\text{mA}$ to reduce nuisance tripping |
| No. of poles | 1P+N 1module (with switched neutral) |
| Rated currents (I_n) | 6, 10, 16, 20, 25, 32, 40A |
| Rated sensitivity currents ($I_{\Delta n}$) | 30mA |
| Residual current off-time under ($I_{\Delta n}$) | $\leq 0.1\text{s}$ |
| Reted residual making and breaking capacity ($I_{\Delta m}$) | 500A ($I_n \leq 50\text{A}$) |
| Insulation voltage (U_i) | 500V |
| Rated voltage (U_e) | 230/240V~ |
| Rated frequency | 50/60Hz |
| Rated short-circuit capacity (I_{cn}) | 10kA |
| Energy Limiting Class | 3 |
| Rated impulse withstand voltage (U_{imp}) (1.2/50 μs) | 4kV |
| Dielectric test voltage | 2kV (50/60Hz, 1 min.) |
| Thermal tripping characteristics | $(1.13-1.45) \times I_n$ |
| Instantaneous tripping characteristics | B: $(3-5) \times I_n$, C: $(5-10) \times I_n$ |
| Electrical life | 4,000 Cycles |
| Mechanical life | 10,000 Cycles |

| | |
|------------------------------|------------------------------------|
| Contact position indication | green OFF / red ON |
| Protection degree | IP20 |
| Ambient temperature | -25°C to +55°C , Max. 95% humidity |
| Terminal connection type | Cable/ Pin-type busbar |
| Max. terminal size for cable | 16mm ² |
| Max. tightening torque | 2.5N.m |
| Installation | Mounting on 35mm DIN rail |
| Incoming method | From bottom |

Product Selection Form

| Poles | Curve | Type | Sensitivity | Rated Current (A) | Ref No. |
|---|-------|------|-------------|-------------------|---------------------|
|  | B | B HP | 30mA | 6A | EKL17-40BHP-1NB0630 |
| | | | | 10A | EKL17-40BHP-1NB1030 |
| | | | | 16A | EKL17-40BHP-1NB1630 |
| | | | | 20A | EKL17-40BHP-1NB2030 |
| | | | | 25A | EKL17-40BHP-1NB2530 |
| | | | | 32A | EKL17-40BHP-1NB3230 |
| | | | | 40A | EKL17-40BHP-1NB4030 |
|  | C | | | 6A | EKL17-40BHP-1NC0630 |
| | | | | 10A | EKL17-40BHP-1NC1030 |
| | | | | 16A | EKL17-40BHP-1NC1630 |
| | | | | 20A | EKL17-40BHP-1NC2030 |
| | | | | 25A | EKL17-40BHP-1NC2530 |
| | | | | 32A | EKL17-40BHP-1NC3230 |
| | | | | 40A | EKL17-40BHP-1NC4030 |

Circuit Diagram



Dimension (mm)

