

## KMI Contactors with a hot-wire relay in a protective shell

KMI Contactors with a hot-wire relay in a protective shell are a complete device, consisting of KMI compact contactor, RTI hot-wire relay, a shell with glands and control buttons. They are designed for remote startup by means of direct power connection and shutdown of three-phase asynchronous motors with a short-closed rotor at AC voltage up to 400 V as well as for protection of the motors from overloads of inadmissible duration and overcurrents, occurring in case of loss of one phase. A plastic shell is used for contactors KMI 10910 and KMI 23211, a metal shell is used for contactors KMI 34012 and KMI 49512.



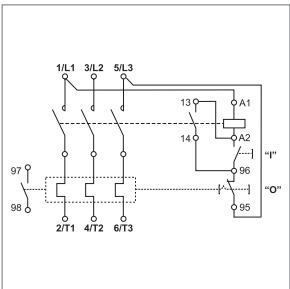
Design features



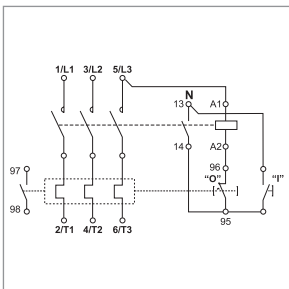
A shell with protection level IP54 allows to use the contactor at construction sites as well as in varnish-and-paint, heat-treatment and electroplating shops (on condition of placement of the equipment under a protective shed).



Factory control circuit allows to avoid faults during connection at site and shortens installation time, which is reduced only to connection of linear feed conductors.



In most cases, the load is presented by 400 V three-phase asynchronous motors. It is recommended to apply this control system for the purpose of reduction of cash expenses and working time saving, as there is no need in application of the fourth neutral working conductor, its making-off and installation.



When controlling active loads (heating circuits, lighting circuits), which use a neutral conductor, it is more reasonable to use 230 V control circuit.

Range

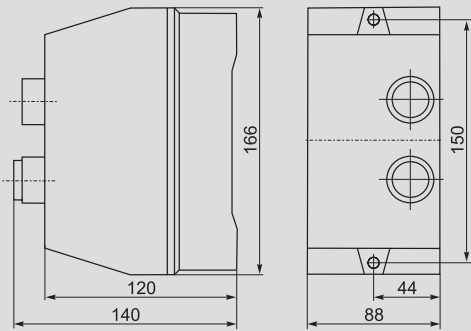
|                                                                                    | Description                                     | Rated<br>operating<br>current,<br>A (AC 3) | Rated<br>voltage<br>of control<br>coil, V | Contacts<br>number<br>and type | PCS/<br>Package | PCS/<br>CTN | Article          |
|------------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------|-------------------------------------------|--------------------------------|-----------------|-------------|------------------|
|   | KMI-10960 9 A in the shell 220 V/AC-3 IP54 IEK  | 9                                          | 220                                       |                                | 1               | 20          | KKM16-009-220-00 |
|                                                                                    | KMI-10960 9 A in the shell 380 V/AC-3 IP54 IEK  | 9                                          | 380                                       |                                | 1               | 20          | KKM16-009-380-00 |
|                                                                                    | KMI-11260 12 A in the shell 220 V/AC-3 IP54 IEK | 12                                         | 220                                       |                                | 1               | 20          | KKM16-012-220-00 |
|                                                                                    | KMI-11260 12 A in the shell 380 V/AC-3 IP54 IEK | 12                                         | 380                                       |                                | 1               | 20          | KKM16-012-380-00 |
|                                                                                    | KMI-11860 18 A in the shell 220 V/AC-3 IP54 IEK | 18                                         | 220                                       |                                | 1               | 20          | KKM16-018-220-00 |
|                                                                                    | KMI-11860 18 A in the shell 380 V/AC-3 IP54 IEK | 18                                         | 380                                       |                                | 1               | 20          | KKM16-018-380-00 |
|   | KMI-22560 25 A in the shell 220 V/AC-3 IP54 IEK | 25                                         | 220                                       |                                | 1               | 16          | KKM26-025-220-00 |
|                                                                                    | KMI-22560 25 A in the shell 380 V/AC-3 IP54 IEK | 25                                         | 380                                       |                                | 1               | 16          | KKM26-025-380-00 |
|                                                                                    | KMI-23260 32 A in the shell 220 V/AC-3 IP54 IEK | 32                                         | 220                                       |                                | 1               | 16          | KKM26-032-220-00 |
|                                                                                    | KMI-23260 32 A in the shell 380 V/AC-3 IP54 IEK | 32                                         | 380                                       |                                | 1               | 16          | KKM26-032-380-00 |
|  | KMI-34062 40 A in the shell 220 V/AC-3 IP54 IEK | 40                                         | 220                                       | 1o                             | 1               | 6           | KKM36-040-220-00 |
|                                                                                    | KMI-34062 40 A in the shell 380 V/AC-3 IP54 IEK | 40                                         | 380                                       | 1o                             | 1               | 6           | KKM36-040-380-00 |
|                                                                                    | KMI-35062 50 A in the shell 220 V/AC-3 IP54 IEK | 50                                         | 220                                       | 1o                             | 1               | 6           | KKM36-050-220-00 |
|                                                                                    | KMI-35062 50 A in the shell 380 V/AC-3 IP54 IEK | 50                                         | 380                                       | 1o                             | 1               | 6           | KKM36-050-380-00 |
|                                                                                    | KMI-46562 65 A in the shell 220 V/AC-3 IP54 IEK | 65                                         | 220                                       | 1o                             | 1               | 6           | KKM46-065-220-00 |
|                                                                                    | KMI-46562 65 A in the shell 380 V/AC-3 IP54 IEK | 65                                         | 380                                       | 1o                             | 1               | 6           | KKM46-065-380-00 |
|                                                                                    | KMI-48062 80 A in the shell 220 V/AC-3 IP54 IEK | 80                                         | 220                                       | 1o                             | 1               | 6           | KKM46-080-220-00 |
|                                                                                    | KMI-48062 80 A in the shell 380 V/AC-3 IP54 IEK | 80                                         | 380                                       | 1o                             | 1               | 6           | KKM46-080-380-00 |
|                                                                                    | KMI-49562 95 A in the shell 220 V/AC-3 IP54 IEK | 95                                         | 220                                       | 1o                             | 1               | 6           | KKM46-095-220-00 |
|                                                                                    | KMI-49562 95 A in the shell 380 V/AC-3 IP54 IEK | 95                                         | 380                                       | 1o                             | 1               | 6           | KKM46-095-380-00 |

Technical features

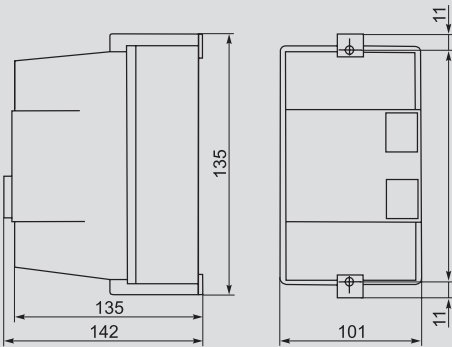
| Parameters                                                                                         | KMI-10960<br>in the shell | KMI-11260<br>in the shell | KMI-11860<br>in the shell | KMI-22560<br>in the shell | KMI-23260<br>in the shell | KMI-34062<br>in the shell | KMI-35062<br>in the shell | KMI-46562<br>in the shell | KMI-48062<br>in the shell | KMI-49562<br>in the shell |      |
|----------------------------------------------------------------------------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|------|
| Rated operating AC voltage U <sub>e</sub> , V                                                      | 230; 400                  |                           |                           |                           |                           |                           |                           |                           |                           |                           |      |
| Rated insulation voltage U <sub>i</sub> , V                                                        | 660                       |                           |                           |                           |                           |                           |                           |                           |                           |                           |      |
| Rated impulse voltage U <sub>imp</sub> , kV                                                        | 6                         |                           |                           |                           |                           |                           |                           |                           |                           |                           |      |
| Rated operating current I <sub>e</sub> ,<br>application category – AC-3 (U <sub>e</sub> <400 V), A | 9                         | 12                        | 18                        | 25                        | 32                        | 40                        | 50                        | 65                        | 80                        | 95                        |      |
| Conventional thermal current I <sub>th</sub> (t° <40°),<br>application category – AC-1, A          | 25                        | 25                        | 32                        | 40                        | 50                        | 60                        | 80                        | 80                        | 125                       | 125                       |      |
| ated power for AC 3, kW                                                                            | 230 V                     | 2,2                       | 3                         | 4                         | 5,5                       | 7,5                       | 11                        | 15                        | 18,5                      | 22                        | 25   |
|                                                                                                    | 400 V                     | 4                         | 5,5                       | 7,5                       | 11                        | 15                        | 18,5                      | 22                        | 30                        | 37                        | 45   |
| Peak momentary load (t≤1s), A                                                                      | 162                       | 216                       | 324                       | 450                       | 576                       | 720                       | 900                       | 1170                      | 1440                      | 1710                      |      |
| Conditional short-circuit current I <sub>nc</sub> , A                                              | 1000                      | 1000                      | 3000                      | 3000                      | 3000                      | 3000                      | 3000                      | 3000                      | 5000                      | 5000                      |      |
| Overcurrent protection – fuse gG, A                                                                | 10                        | 20                        | 25                        | 40                        | 50                        | 50                        | 63                        | 80                        | 100                       | 100                       |      |
| Coordination type                                                                                  | 2                         |                           |                           |                           |                           |                           |                           |                           |                           |                           |      |
| Dissipated power at I <sub>e</sub> , W/pole                                                        | AC-3                      | 0,2                       | 0,36                      | 0,8                       | 1,25                      | 2                         | 2,4                       | 3,7                       | 4,2                       | 5,1                       | 7,2  |
|                                                                                                    | AC-1                      | 1,56                      | 1,56                      | 2,5                       | 3,2                       | 5                         | 5,4                       | 9,6                       | 6,4                       | 12,5                      | 12,5 |
| RTI series hot-wire relays                                                                         | RTI-1314                  | RTI-1316                  | RTI-1321                  | RTI-1322                  | RTI-2355                  | RTI-3357                  | RTI-3359                  | RTI-3361                  | RTI-3363                  | RTI-3365                  |      |
| Relay setting range, A                                                                             | 7÷10                      | 9÷13                      | 12÷18                     | 17÷25                     | 30÷40                     | 37÷50                     | 48÷65                     | 55÷70                     | 63÷80                     | 80÷93                     |      |
| Electric-shock-hazard protection class<br>according to GOST 12.2.0007.0                            | II                        | II                        | II                        | II                        | II                        | I                         | I                         | I                         | I                         | I                         |      |

Overall dimensions

KMI-10960; KMI-11260; KMI-11860



KMI-22560;KMI-23260



KMI-34062; KMI-35062; KMI-46562;  
KMI-48062; KMI-49562

