

# Mini Contactors: AC & DC Operated

Series K1-09 & K1-12 and Reversers K1W09 & K1W12



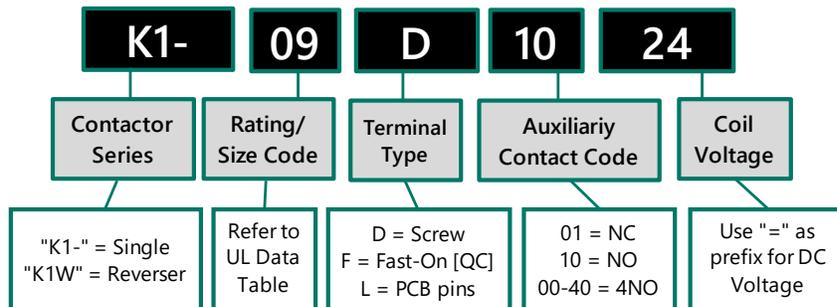
Data according to UL508



Main Contacts (cULus)

		Type	K1-09D.. K1W09D01	K1-09F..	K1-09L..	K1-07D..	K1-12D.. K1W12D01	HK..
Rated operational current "General Use"		A	15	15	20	10	20	10
Rated operational power of three-phase motors at 60Hz (3ph)	110-120V	hp	1½	1½	1½	-	2	-
	200-208V	hp	3	3	3	-	3	-
	220-240V	hp	3	3	3	-	3	-
	440-480V	hp	5	5	5	-	7½	-
	550-600V	hp	7½	7½	7½	-	10	-
Rated operational power of AC motors at 60Hz (1ph)	110-120V	hp	½	½	½	-	¾	-
	200-208V	hp	1	1	1	-	1½	-
	220-240V	hp	1½	1½	1½	-	2	-
Fuse / Short-circuit current		A/kA	30/5	30/5	30/5	-	30/5 600	-
Rated voltage		V AC	600	600	600 <sup>1)</sup>	600		600
Auxiliary Contacts (cULus)	heavy pilot duty	AC	A600	A600	A600	A600	A600	A600
	standard pilot duty	DC	Q600	Q600	Q600	Q600	Q600	Q600

Ordering Code Example:



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### Auxiliary Contact Blocks for Contactors K1-..

Ratings AC15 230V A		400V A	Thermal Rated Current A	Contacts <sup>2)</sup>		Type
				NO	NC	
<b>3</b>	2		10	1	1	<b>HKM11</b>
<b>3</b>	2		10	-	2	<b>HKM02</b>
<b>3</b>	2		10	2	2	<b>HKM22</b>

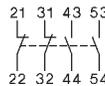
Aux. Contact Blocks

HKM11

HKM02

HKM22

Wiring Diagrams



Contactors with Auxiliary Contact Block  
Contacts according to EN50012

Contactors	HKM11	HKM02	HKM22	-	-	-	-
K1-..D10	<b>21</b>	<b>12</b>	<b>32</b>	-	-	-	-
Contacts according to DIN EN50005							
K1-..D01	-	-	-	12	03	41	23
K1-..D00-40	-	-	-	11	02	40	22

Prefer combinations according to EN50012

### Auxiliary Contact Blocks for Mini Reversing Contactors K1-..

Ratings AC15 230V A		400V A	Thermal Rated Current A	Contacts <sup>2)</sup>		Type
				NO	NC	
<b>3</b>	2		10	1	1	<b>HKM11V</b>
<b>3</b>	2		10	1	1	<b>HKM11X</b>



Aux. Contact Blocks

HKM11V

HKM11X

Wiring Diagrams



### Reversing Starter Connector



For Reversing Starter Types, incl. Coil Connector

Type

K1W09D..MC, K1W12D..MC	<b>K1W-VB</b>
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<sup>2)</sup> Contacts suitable for electronic circuits, according to EN947-5-4 for rated voltage 24V (test ratings 17V DC, 5mA) Mirror contacts acc. IEC60947-4-1 Annex F.

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### Suppressor Units for Contactors K1-..



Voltage Range  
V

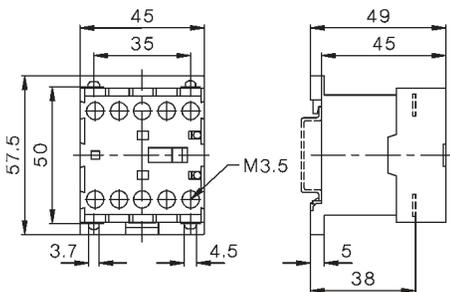
Type

12 - 48V AC/DC	1600nF / 22 Ohm	<b>RC-K1 24</b>
48 - 127V AC/DC	680nF / 270 Ohm	<b>RC-K1 110</b>
110 - 250V AC/DC	220nF / 2200 Ohm	<b>RC-K1 230</b>

### Dimensions

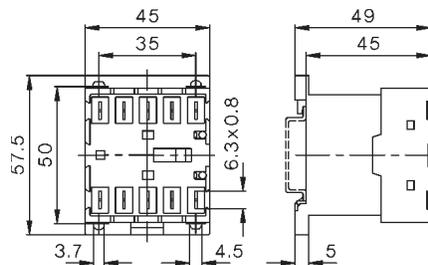
**AC and DC operated**  
with screw terminals

**K1-07D..**  
**K1-09D..**  
**K1-12D..**

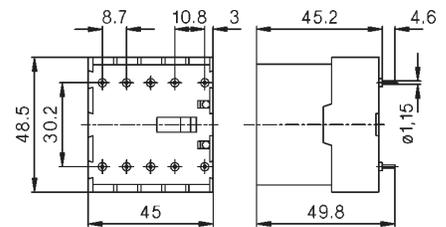


with fast on terminals

**K1-07F..**  
**K1-09F..**

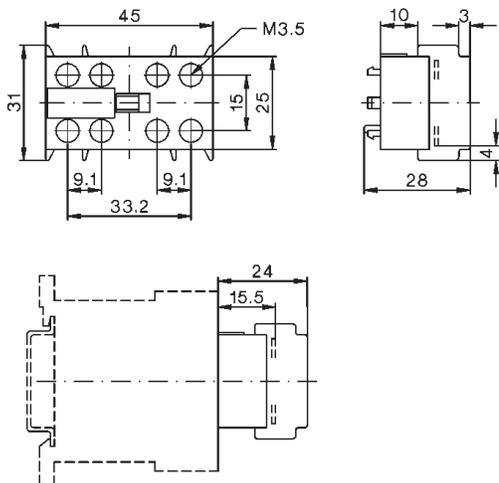


**AC and DC operated**  
with solder connections  
**K1-07L..**  
**K1-09L..**



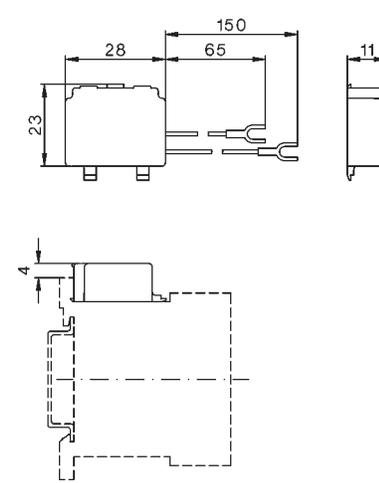
### Auxiliary Contact Blocks

**HK..**



### Suppressor Units

**RC-K1**

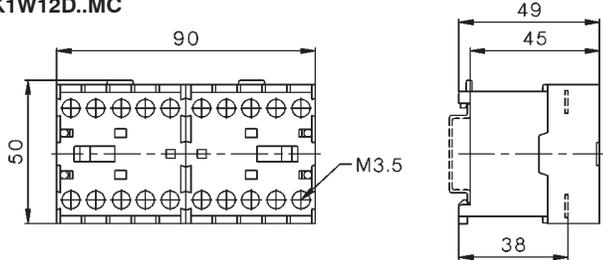


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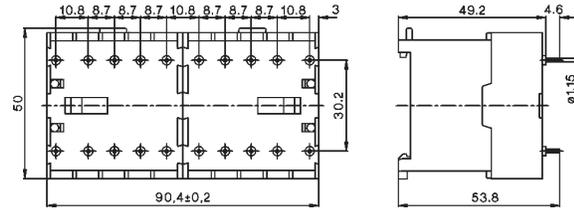
## Reversing Contactors

K1W09D..MC  
K1W12D..MC

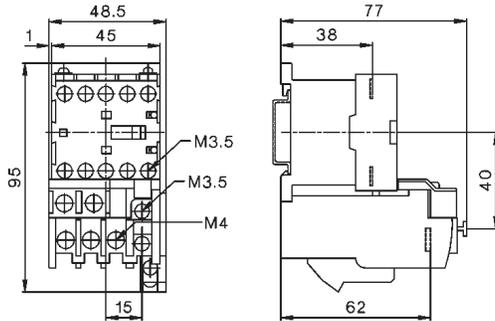


## Reversing Contactors

K1W09L..MC



K1-09 + U12/16.. K1  
K1-12



K1W09D..MC + U12/16E K1  
K1W09D..MC + U12/16E K1

