MAG™

POWER & CONTROL

Industrial Control Transformers Designed for All Your Applications

MAG
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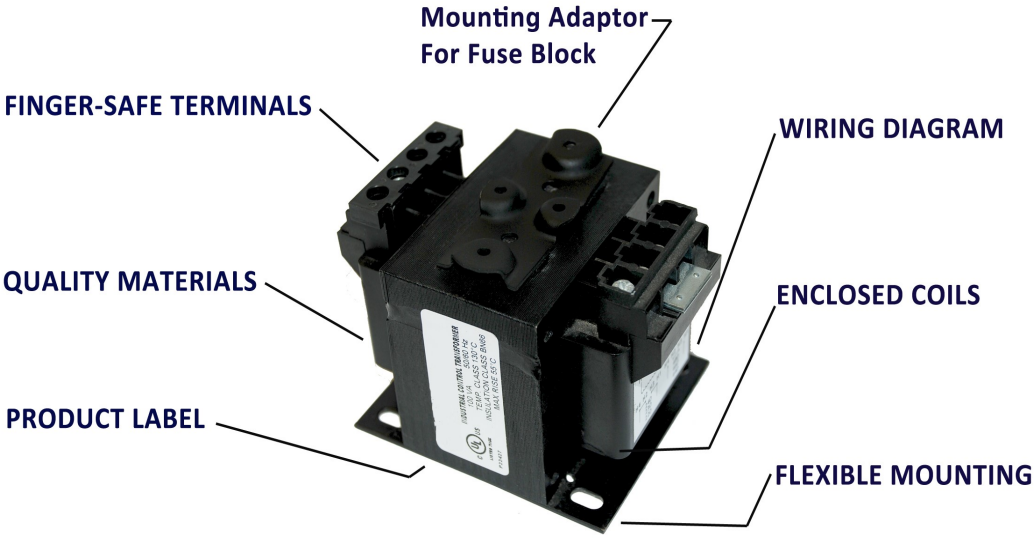
Table of Contents

Product Features.....1
Selection Process..... 2
Voltage Series..... 4
DM Series.....5
BS Series..... 6
AS Series..... 7
DS Series..... 8
WQ Series..... 9
CM Series..... 10
EM Series..... 11
FN Series..... 12
ZP Series..... 13
CL Series..... 14
BA Series..... 15
ZZ Series..... 16
DY Series..... 17
RA Series..... 18
Fusing Options..... 19

Industrial Control Transformers



c UL us
E513112

Product Features:

- Finger-safe terminals designed to accept bare wire, ferrules, spade or ring lugs
- Enclosed coils (50-5kVA) to protect against moisture, dirt, dust and industrial contaminants.
- Constructed with high quality silicon steel laminates
- Highest quality copper magnetic wire ensures efficient operation.
- Labeled with complete wiring diagram
- Two parallel jumper links come standard with all transformers which can be wired for dual primary voltages
- 50 – 5000 VA, 50/60 Hz
- 50 – 100 VA, 55°C temperature rise, 130°C insulation class
- 150 – 750 VA, 80°C temperature rise, 130°C insulation class
- 1000 – 5000 VA, 115°C temperature rise, 180°C insulation class
- Heavy gauge steel mounting plate with slotted mounting feet for easy and flexible installation
- Mounting adapter for fuse blocks
- Fusing options available in kits or factory installed
- UL file # E513112
- Meets or exceeds, UL, CE, CSA, NEMA , ANSI and OSHA standards

Transformer Selection Process

Selecting a transformer for industrial control circuit applications requires knowledge of the following terms:

Inrush VA is the product of load voltage (V) multiplied by the current (A) that is required during circuit start-up. It is calculated by adding the in-rush VA requirements of all devices (contactors, timers, relays, pilot lights, solenoids, etc.), which will be energized together. Inrush VA requirements are best obtained from the component manufacturer.

Sealed VA is the product of load voltage (V) multiplied by the current (A) after initial start-up or under normal operating conditions. It is calculated by adding the sealed VA requirements of all electrical components that will be energized at any given time. Sealed VA requirements are best obtained from the component manufactuer. Sealed VA is also referred to as steady state VA.

Primary Voltage is the voltage available from the electrical distribution system and its operational frequency, which is connected to the transformer supply voltage terminals.

Secondary Voltage is the voltage required for load operation which is connected to the transformer load voltage terminals.

INRUSH REGULATION DATA CHART

INRUSH VA @ 0.4 POWER FACTOR

Continuous VA Transformer Nameplate Rating	85% Secondary Voltage	90% Secondary Voltage	95% Secondary Voltage
25	125	100	75
50	200	167	131
75	311	257	200
100	471	377	276
150	923	716	491
200	1125	883	622
250	1944	1476	970
300	2040	1547	1020
350	3300	2400	1400
500	3191	2500	1745
750	6025	4520	2915
1000	8100	5600	3000
1500	16000	12000	6600
2000	19500	13500	7300
3000	25500	18250	10500
5000	75000	56000	33000

Once the circuit variables have been determined, transformer selection is a simple 5-step process.

1. Determine the application inrush VA by using the following industry accepted formula:

   Application Inrush VA = √((Inrush VA)² r (Sealed VA)²)

2. Refer to the Regulation Data Chart. If the primary voltage is basically stable and does not vary by more than 5% from nominal, the 90% secondary voltage column should be used. If the primary voltage varies between 5% and 10% of nominal, the 95% secondary voltage column should be used.

3. After determining the proper secondary voltage column, read down until a value equal to or greater than the application inrush VA is found. In no case should a figure less than the application inrush VA be used.

4. Read left to the Transformer VA Rating column to determine the proper transformer for this application. As a final check, make sure that the Transformer VA Rating is equal to or greater than the total sealed requirements. If not, select a transformer with a VA rating equal to or greater than the total sealed VA.

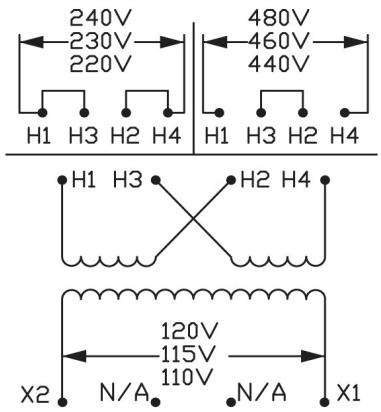
5. Refer to the following pages to determine the proper catalog number based on the transformer VA, and primary and secondary voltage requirements.

MPC Voltage Series

MPC Industrial Control Transformers are available in a wide variety of primary and secondary voltages. If you do not see the voltages required for your application, contact us for a quote on a custom transformer.

Voltage Table

Series	Primary	Secondary	VA Sizes
DM	220x440 230x460 240x480	110 115 120	50-5000
BS	240x480	24	50-750
AS	120x240	24	50-750
DS	115x230	24	50-500
EM	500 575 600	110 115 120	50-1000
WQ	208/277	120	50-750
CM	200/220/440 208/230/460 /240/480	110 115 120	50-5000
FN	230/460/575	95/115	1000-5000
ZP	380/400/415	110/220	50-750
CL	200/220/440 208/230/460 /240/480	23/110 24/115 25/120	50 - 1000
BA	240x480	120x240	50 - 5000
ZZ **(Universal Voltage)**	600/480/416/240 575/460/400/230 550/440/380/220 500/ / /208	99/120/130 95/115/125 91/110/120 85/100/110	50 - 750
DY	220x440 230x460 240x480	110x220 115x230 120x240	1000 - 5000
RA	240/347/380	120x240	1000 - 5000



Wiring Diagram

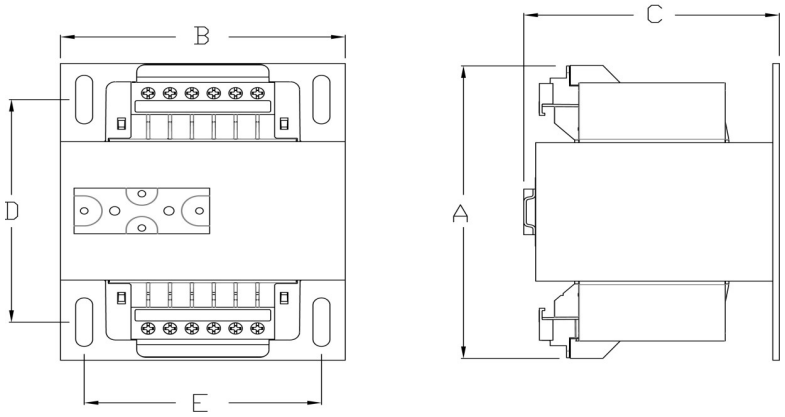


Image is a general representation of a typical MAG Control Transformer without fusing accessories or jumper links. Transformers 50VA - 350VA have 4 terminals per side, and units 500VA and higher have 6 terminals per side.

DM SERIES

PRI	SEC
220 X 440	110
230 X 460	115
240 X 480	120

Approximate Dimensions and Weight

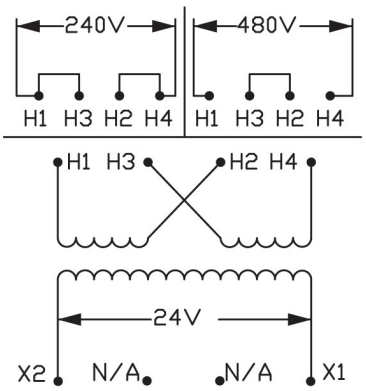
VA Rating	MPC Part #	Max Depth (A)	Max Width (B)	Max Height (C)	Mounting Depth (D)	Mounting Depth (E)	Mounting Hole Depth	Mounting Hole Width	Shipping Weight (lbs.)
50	MPC2-1B050DMU	3.32	3.00	2.79	2.00	2.50	0.20	0.41	2.60
75	MPC2-1B075DMU	3.82	3.00	2.79	2.50	2.50	0.20	0.41	3.50
100	MPC2-1B100DMU	3.78	3.38	3.11	2.38	2.81	0.20	0.41	4.20
150	MPC2-2B150DMU	4.27	3.75	3.42	2.88	3.13	0.20	0.41	6.70
200	MPC2-2B200DMU	4.05	4.50	4.04	2.50	3.75	0.20	0.41	8.50
250	MPC2-2B250DMU	4.55	4.50	4.04	2.88	3.75	0.20	0.41	10.00
300	MPC2-2B300DMU	4.55	4.50	4.04	3.25	3.75	0.20	0.41	11.30
350	MPC2-2B350DMU	5.28	4.50	4.04	3.75	3.75	0.20	0.41	13.60
500	MPC2-2B500DMU	5.75	5.25	4.66	4.25	4.38	0.31	1.06	15.75
750	MPC2-2B750DMU	7.00	5.25	4.66	5.38	4.38	0.31	1.06	28.10
1,000	MPC2-1H1K0DMU	6.61	7.00	5.65	4.00	6.13	0.31	1.06	29.80
1,500	MPC2-1H1K5DMU	7.62	7.00	5.65	4.50	6.13	0.31	1.06	30.00
2,000	MPC2-1H2K0DMU	8.37	7.00	5.43	5.13	6.13	0.31	1.06	38.00
3,000	MPC2-1H3K0DMU**	7.82	9.00	7.62	4.25	6.50	0.44	1.00	53.00
5,000	MPC2-1H5K0DMU**	9.06	9.00	7.62	7.25	7.50	0.44	1.00	89.00

**** No Fuse Kit is available for this model**

- **Add end suffix for fusing options**

Notes:

- Jumper Link and Fuse Clip Height not included
- Add 5/16" to the Depth when fuse clips are included.(50 thru 350VA)
- Add 1/2" to the Height when fuse block is included (1, 2, and 3 poles) (500 thru 5000VA)
- Add 1 3/8" to the Height when fuse block is included (1, 2, and 3 poles) (50 thru 350VA)



Wiring Diagram

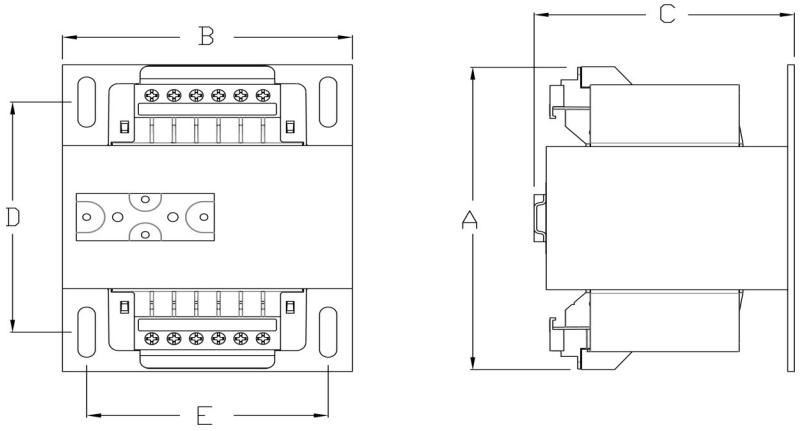


Image is a general representation of a typical MAG Control Transformer without fusing accessories or jumper links. Transformers 50VA - 350VA have 4 terminals per side, and units 500VA and higher have 6 terminals per side.

BS SERIES

PRI	SEC
240 X 480	24

Approximate Dimensions and Weight

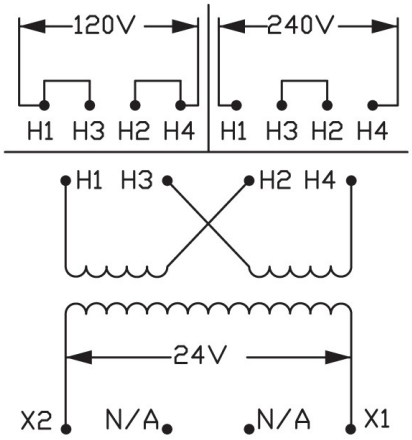
VA Rating	MPC Part #	Max Depth (A)	Max Width (B)	Max Height (C)	Mounting Depth (D)	Mounting Depth (E)	Mounting Hole Depth	Mounting Hole Width	Shipping Weight (lbs.)
50	MPC2-1B050BSU	3.32	3.00	2.79	2.00	2.50	0.20	0.41	2.60
75	MPC2-1B075BSU	3.82	3.00	2.79	2.50	2.50	0.20	0.41	3.50
100	MPC2-1B100BSU	3.78	3.38	3.11	2.38	2.81	0.20	0.41	4.20
150	MPC2-2B150BSU	4.27	3.75	3.42	2.88	3.13	0.20	0.41	6.70
200	MPC2-2B200BSU	4.35	3.75	3.42	2.88	3.13	0.20	0.41	7.25
250	MPC2-2B250BSU	4.55	4.50	4.04	2.88	3.75	0.20	0.41	10.00
300	MPC2-2B300BSU	5.10	4.50	4.04	2.88	3.75	0.20	0.41	11.50
350	MPC2-2B350BSU	5.28	4.50	4.04	3.75	3.75	0.20	0.41	13.60
500	MPC2-2B500BSU	5.75	5.25	4.66	4.25	4.38	0.31	1.06	15.75
750	MPC2-2B750BSU*	7.00	5.25	4.66	5.38	4.38	0.31	1.06	28.10

***This model is not available with the FO option (Consider F1)**

- **Add end suffix for fusing options**
- **Add C to suffix for the covers**

Notes:

- Jumper Link and Fuse Clip Height not included
- Add 5/16" to the Depth when fuse clips are included.(50 thru 350VA)
- Add 1/2" to the Height when fuse block is included (1, 2, and 3 poles) (500 thru 5000VA)
- Add 1 3/8" to the Height when fuse block is included (1, 2, and 3 poles) (50 thru 350VA)



Wiring Diagram

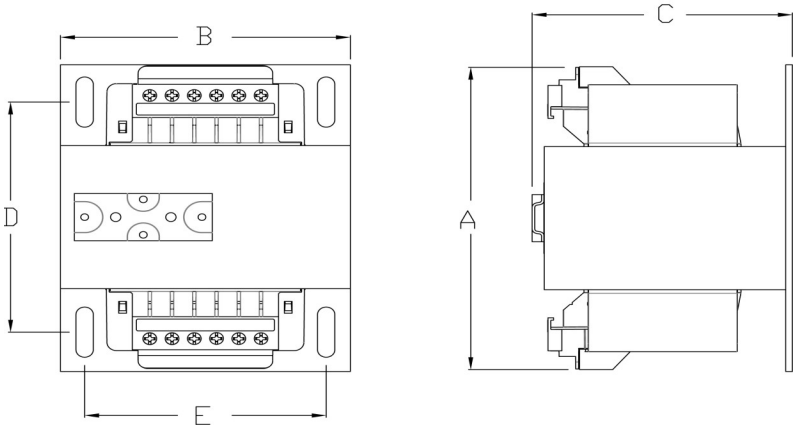


Image is a general representation of a typical MAG Control Transformer without fusing accessories or jumper links. Transformers 50VA - 350VA have 4 terminals per side, and units 500VA and higher have 6 terminals per side.

AS SERIES

PRI	SEC
120 X 240	24

Approximate Dimensions and Weight

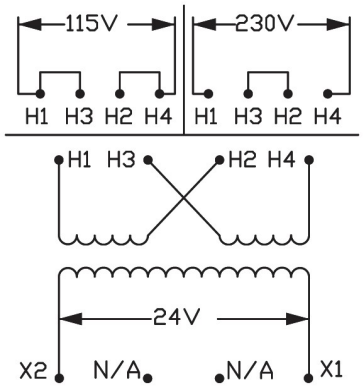
VA Rating	MPC Part #	Max Depth (A)	Max Width (B)	Max Height (C)	Mounting Depth (D)	Mounting Depth (E)	Mounting Hole Depth	Mounting Hole Width	Shipping Weight (lbs.)
50	MPC2-1B050ASU	3.23	3.00	2.79	2.00	2.50	0.20	0.41	2.60
75	MPC2-1B075ASU	3.82	3.00	2.79	2.50	2.50	0.20	0.41	3.50
100	MPC2-1B100ASU	3.78	3.38	3.11	2.38	2.81	0.20	0.41	4.20
150	MPC2-2B150ASU	4.27	3.75	3.42	2.88	3.13	0.20	0.41	6.70
200	MPCS-2B200ASU	4.35	3.75	3.42	2.88	3.13	0.20	0.41	7.25
250	MPC2-2B250ASU	4.55	4.50	4.04	2.88	3.75	0.20	0.41	10.00
300	MPC2-2B300ASU	5.10	4.50	4.04	2.88	3.75	0.20	0.41	11.50
350	MPC2-2B350ASU	5.28	4.50	4.04	3.75	3.75	0.20	0.41	13.60
500	MPC2-2B500ASU	5.75	5.25	4.66	4.25	4.38	0.31	1.06	15.75
750	MPC2-2B750ASU*	7.00	5.25	4.66	5.38	4.38	0.31	1.06	28.10

***This model is not available with the FO option (Consider F1)**

- **Add end suffix for fusing options**
- **Add C to suffix for the covers**

Notes:

- Jumper Link and Fuse Clip Height not included
- Add 5/16" to the Depth when fuse clips are included.(50 thru 350VA)
- Add 1/2" to the Height when fuse block is included (1, 2, and 3 poles) (500 thru 5000VA)
- Add 1 3/8" to the Height when fuse block is included (1, 2, and 3 poles) (50 thru 350VA)



Wiring Diagram

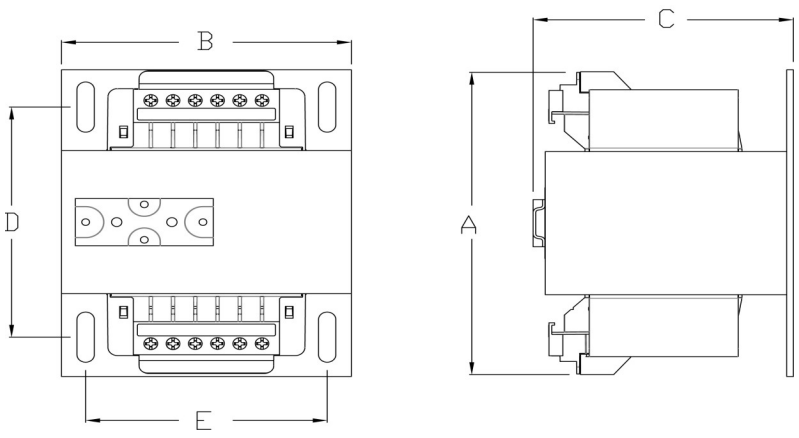


Image is a general representation of a typical MAG Control Transformer without fusing accessories or jumper links. Transformers 50VA - 350VA have 4 terminals per side, and units 500VA and higher have 6 terminals per side.

DS SERIES

PRI	SEC
115 X 230	24

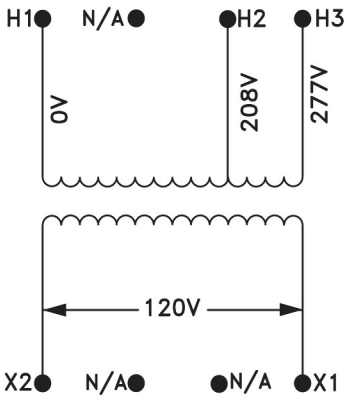
Approximate Dimensions and Weight

VA Rating	MPC Part #	Max Depth (A)	Max Width (B)	Max Height (C)	Mounting Depth (D)	Mounting Depth (E)	Mounting Hole Depth	Mounting Hole Width	Shipping Weight (lbs)
50	MPC2-1B050DSU	3.32	3.00	2.79	2.00	2.50	0.20	0.41	2.60
75	MPC2-1B075DSU	3.82	3.00	2.79	2.50	2.50	0.20	0.41	3.50
100	MPC2-1B100DSU	3.78	3.38	3.11	2.38	2.81	0.20	0.41	4.20
150	MPC2-2B150DSU	4.27	3.75	3.42	2.88	3.13	0.20	0.41	6.70
200	MPC2-2B200DSU	4.35	3.75	3.42	2.88	3.13	0.20	0.41	7.25
250	MPC2-2B250DSU	4.55	4.50	4.04	2.88	3.75	0.20	0.41	10.00
300	MPC2-2B300DSU	5.10	4.50	4.04	2.88	3.75	0.20	0.41	11.50
350	MPC2-2B350DSU	5.28	4.50	4.04	3.75	3.75	0.20	0.41	13.60
500	MPC2-2B500DSU	5.75	5.25	4.66	4.25	4.38	0.31	1.06	15.75

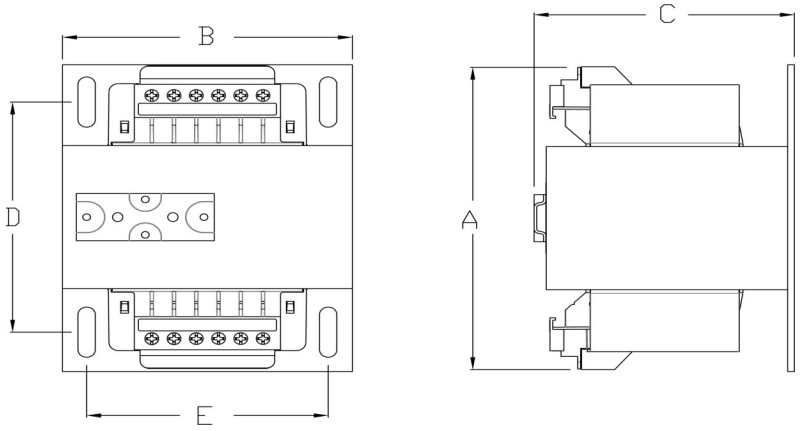
- **Add end suffix for fusing options**

Notes:

- Jumper Link and Fuse Clip Height not included
- Add 5/16" to the Depth when fuse clips are included.(50 thru 350VA)
- Add 1/2" to the Height when fuse block is included (1, 2, and 3 poles) (500 thru 5000VA)
- Add 1 3/8" to the Height when fuse block is included (1, 2, and 3 poles) (50 thru 350VA)



Wiring Diagram



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WQ SERIES

PRI	SEC
208/277	120

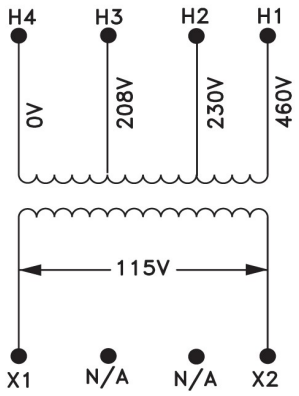
Approximate Dimensions and Weight

VA Rating	MPC Part #	Max Depth (A)	Max Width (B)	Max Height (C)	Mounting Depth (D)	Mounting Depth (E)	Mounting Hole Depth	Mounting Hole Width	Shipping Weight (lbs.)
50	MPC2-1B050WQU	3.23	3.00	2.79	2.00	2.50	0.20	0.41	2.60
75	MPC2-1B075WQU	3.73	3.00	2.79	2.50	2.50	0.20	0.41	3.50
100	MPC2-1B100WQU	3.69	3.38	3.11	2.38	2.81	0.20	0.41	4.20
150	MPC2-2B150WQU	4.17	3.75	3.42	2.88	3.13	0.20	0.41	6.70
200	MPC2-2B200WQU	3.96	4.50	4.04	2.88	3.75	0.20	0.41	8.50
250	MPC2-2B250WQU	4.47	4.50	4.04	2.88	3.75	0.20	0.41	10.00
300	MPC2-2B300WQU	4.47	4.50	4.04	3.25	3.75	0.20	0.41	11.30
350	MPC2-2B350WQU	5.19	4.50	4.04	3.75	3.75	0.20	0.41	13.60
500	MPC2-2B500WQU	5.17	5.25	4.66	4.25	4.38	0.31	1.06	15.75
750	MPC2-2B750WQU	6.42	5.25	4.66	5.38	4.38	0.31	1.06	28.10

- **Add end suffix for fusing options**

Notes:

- Jumper Link and Fuse Clip Height not included
- Add 5/16" to the Depth when fuse clips are included.(50 thru 350VA)
- Add 1/2" to the Height when fuse block is included (1, 2, and 3 poles) (500 thru 5000VA)
- Add 1 3/8" to the Height when fuse block is included (1, 2, and 3 poles) (50 thru 350VA)



Wiring Diagram

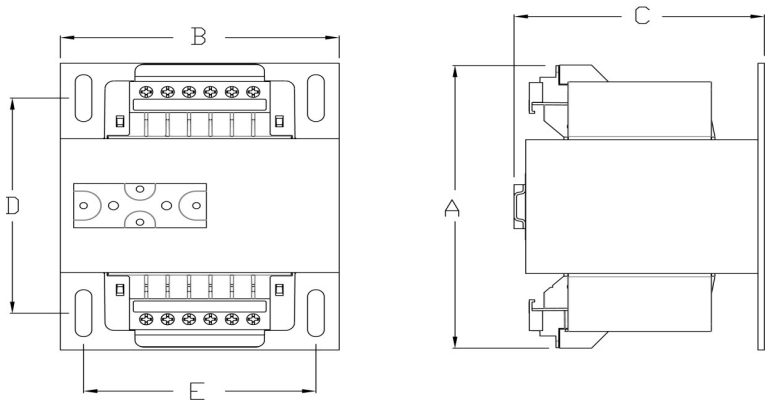


Image is a general representation of a typical MAG Control Transformer without fusing accessories or jumper links. Transformers 50VA - 350VA have 4 terminals per side, and units 500VA and higher have 6 terminals per side.

CM SERIES

PRI	SEC
200/220/440	110
208/230/460	115
/240/480	120

Approximate Dimensions and Weight

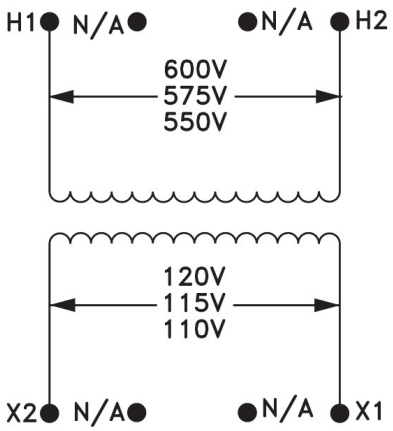
VA Rating	MPC Part #	Max Depth (A)	Max Width (B)	Max Height (C)	Mounting Depth (D)	Mounting Depth (E)	Mounting Hole Depth	Mounting Hole Width	Shipping Weight (lbs.)
50	MPC2-1B050CMU	3.23	3.00	2.79	2.00	2.50	0.20	0.41	2.60
75	MPC2-1B075CMU	3.73	3.00	2.79	2.50	2.50	0.20	0.41	3.50
100	MPC2-1B100CMU	3.69	3.38	3.11	2.38	2.81	0.20	0.41	4.20
150	MPC2-2B150CMU	4.17	3.75	3.42	2.88	3.13	0.20	0.41	6.70
200	MPC2-2B200CMU	3.96	4.50	4.04	2.88	3.75	0.20	0.41	8.50
250	MPC2-2B250CMU	4.47	4.50	4.04	3.25	3.75	0.20	0.41	10.00
300	MPC2-2B300CMU	4.47	4.50	4.04	3.25	3.75	0.20	0.41	11.30
350	MPC2-2B350CMU	5.19	4.50	4.04	3.75	3.75	0.20	0.41	13.60
500	MPC2-2B500CMU	5.17	5.25	4.66	4.25	4.38	0.31	1.06	16.00
750	MPC2-2B750CMU	6.42	5.25	4.66	5.38	4.38	0.31	1.06	28.10
1,000	MPC2-1H1K0CMU	6.21	7.00	5.65	4.00	6.13	0.31	1.06	29.80
1,500	MPC2-1H1K5CMU	7.23	7.00	5.65	4.50	6.13	0.31	1.06	30.00
2,000	MPC2-1H2K0CMU	7.98	7.00	5.43	5.13	6.13	0.31	1.06	38.00
3,000	MPC2-1H3K0CMU**	7.50	9.00	7.62	4.25	6.50	0.44	1.00	53.00
5,000	MPC2-1H5K0CMU**	9.00	9.00	7.62	7.25	7.50	0.44	1.00	89.00

**** No Fuse Kit is available for this model**

- **Add end suffix for fusing options**
- **Add C to suffix for the covers**

Notes:

- Jumper Link and Fuse Clip Height not included
- Add 5/16" to the Depth when fuse clips are included.(50 thru 350VA)
- Add 1/2" to the Height when fuse block is included (1, 2, and 3 poles) (500 thru 5000VA)
- Add 1 3/8" to the Height when fuse block is included (1, 2, and 3 poles) 50 thru 350VA)



Wiring Diagram

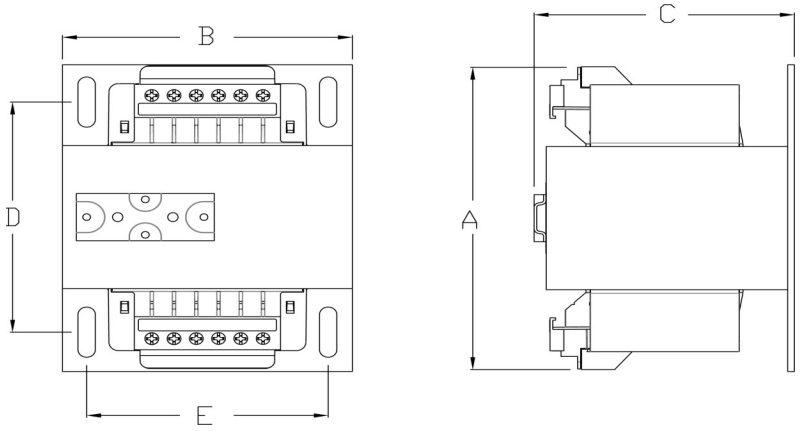


Image is a general representation of a typical MAG Control Transformer without fusing accessories or jumper links. Transformers 50VA - 350VA have 4 terminals per side, and units 500VA and higher have 6 terminals per side.

EM SERIES

PRI	SEC
550	110
575	115
600	120

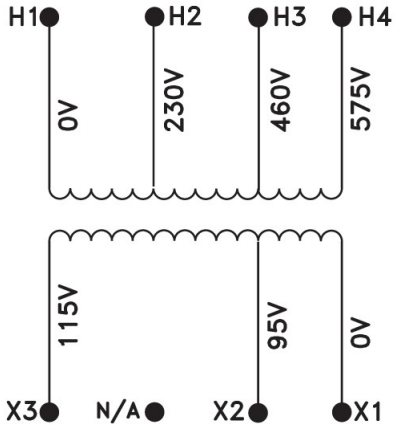
Approximate Dimensions and Weight

VA Rating	MPC Part #	Max Depth (A)	Max Width (B)	Max Height (C)	Mounting Depth (D)	Mounting Depth (E)	Mounting Hole Depth	Mounting Hole Width	Shipping Weight (lbs.)
50	MPC2-1B050EMU	3.23	3.00	2.79	2.00	2.50	0.20	0.41	2.60
75	MPC2-1B075EMU	3.73	3.00	2.79	2.50	2.50	0.20	0.41	3.50
100	MPC2-1B100EMU	3.69	3.38	3.11	2.38	2.81	0.20	0.41	4.20
150	MPC2-2B150EMU	4.17	3.75	3.42	2.88	3.13	0.20	0.41	6.70
200	MPC2-2B200EMU	4.35	3.75	3.42	2.88	3.13	0.20	0.41	7.25
250	MPC2-2B250EMU	4.47	4.50	4.04	2.88	3.75	0.20	0.41	10.00
300	MPC2-2B300EMU	5.10	4.50	4.04	2.88	3.75	0.20	0.41	11.50
350	MPC2-2B350EMU	5.19	4.50	4.04	3.75	3.75	0.20	0.41	13.60
500	MPC2-2B500EMU	5.17	5.25	4.66	4.38	4.38	0.31	1.06	15.85
750	MPC2-2B750EMU	6.42	5.25	4.66	5.38	4.38	0.31	1.06	28.10
1,000	MPC2-1H1K0EMU	6.21	7.00	5.65	4.00	6.13	0.31	1.06	29.80

- **Add end suffix for fusing options**

Notes:

- Jumper Link and Fuse Clip Height not included
- Add 5/16" to the Depth when fuse clips are included.(50 thru 350VA)
- Add 1/2" to the Height when fuse block is included (1, 2, and 3 poles) (500 thru 5000VA)
- Add 1 3/8" to the Height when fuse block is included (1, 2, and 3 poles) (50 thru 350VA)



Wiring Diagram

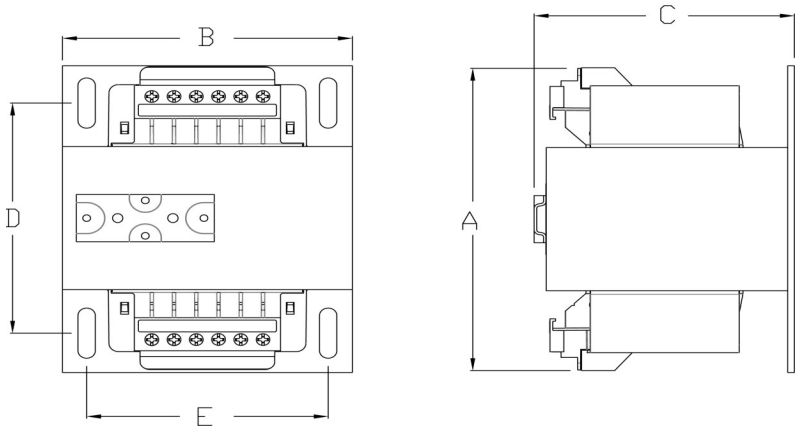


Image is a general representation of a typical MAG Control Transformer without fusing accessories or jumper links. Transformers 50VA - 350VA have 4 terminals per side, and units 500VA and higher have 6 terminals per side.

FN SERIES

PRI	SEC
230/460/575	95/115

Approximate Dimensions and Weight

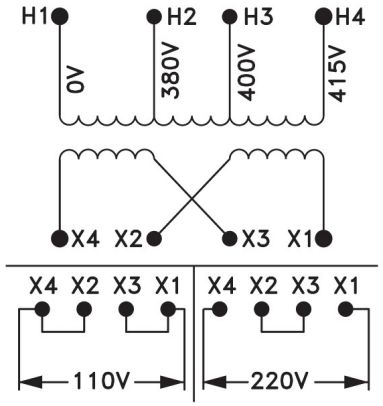
VA Rating	MPC Part #	Max Depth (A)	Max Width (B)	Max Height (C)	Mounting Depth (D)	Mounting Depth (E)	Mounting Hole Depth	Mounting Hole Width	Shipping Weight (lbs.)
1,000	MPC2-1H1K0FNU	6.21	7.00	5.65	4.00	6.13	0.31	1.06	29.80
1,500	MPC2-1H1K5FNU	7.98	7.00	5.43	5.13	6.13	0.31	1.06	38.00
2,000	MPC2-1H2K0FNU	7.98	7.00	5.43	5.13	6.13	0.31	1.06	38.00
3,000	MPC2-1H3K0FNU**	9.00	9.00	7.62	7.25	7.50	0.44	1.00	89.00
5,000	MPC2-1H5K0FNU**	10.00	9.00	8.73	8.25	7.50	0.44	1.00	101.00

**** No Fuse Kit is available for this model**

- **Add end suffix for fusing options**
- **Add C to suffix for the covers**

Notes:

- Jumper Link and Fuse Clip Height not included
- Add 5/16" to the Depth when fuse clips are included.(50 thru 350VA)
- Add 1/2" to the Height when fuse block is included (1, 2, and 3 poles)
- Add 1 3/8" to the Height when fuse block is included (1, 2, and 3 poles)



Wiring Diagram

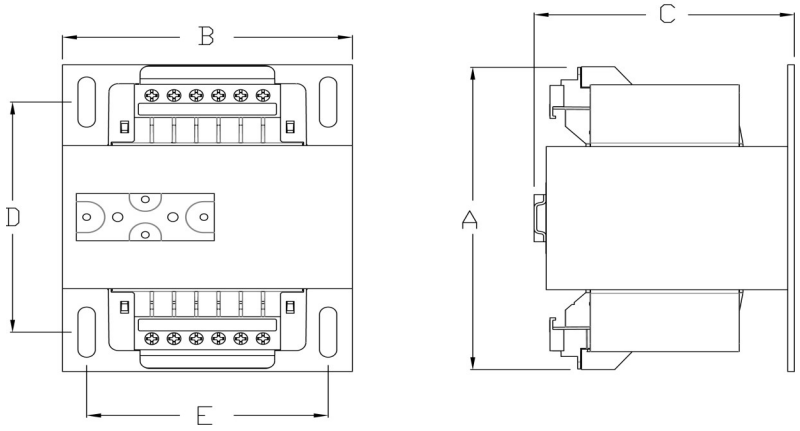


Image is a general representation of a typical MAG Control Transformer without fusing accessories or jumper links. Transformers 50VA - 350VA have 4 terminals per side, and units 500VA and higher have 6 terminals per side.

ZP SERIES

PRI	SEC
380/400/415	110X220

Approximate Dimensions and Weight

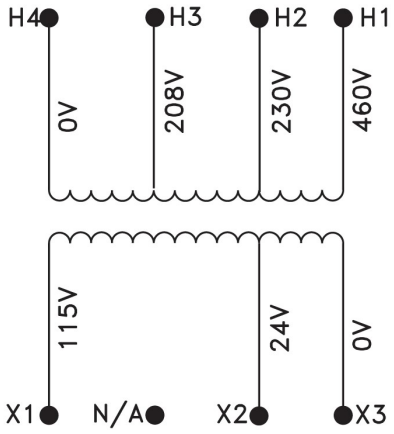
VA Rating	MPC Part #	Max Depth (A)	Max Width (B)	Max Height (C)	Mounting Depth (D)	Mounting Depth (E)	Mounting Hole Depth	Mounting Hole Width	Shipping Weight (lbs.)
50	MPC2-1B050ZPU*	3.32	3.00	2.79	2.00	2.50	0.20	0.41	2.60
75	MPC2-1B075ZPU*	3.82	3.00	2.79	2.50	2.50	0.20	0.41	3.50
100	MPC2-1B100ZPU*	3.78	3.38	3.11	2.38	2.81	0.20	0.41	4.20
150	MPC2-2B150ZPU*	4.27	3.75	3.42	2.88	3.13	0.20	0.41	6.70
200	MPC2-2B200ZPU*	4.05	4.50	4.04	2.50	3.75	0.20	0.41	8.50
250	MPC2-2B250ZPU*	4.55	4.50	4.04	2.88	3.75	0.20	0.41	10.00
300	MPC2-2B300ZPU*	4.55	4.50	4.04	3.25	3.75	0.20	0.41	11.30
350	MPC2-2B350ZPU*	5.28	4.50	4.04	3.75	3.75	0.20	0.41	13.60
500	MPC2-2B500ZPU	5.75	5.25	4.66	4.25	4.38	0.31	1.06	16.10
750	MPC2-2B750ZPU	7.00	5.25	4.66	5.38	4.38	0.31	1.06	28.10

***This model is not available with the FO option (Consider F1)**

- **Add end suffix for fusing options**
- **Add C to suffix for the covers**

Notes:

- Jumper Link and Fuse Clip Height not included
- Add 5/16" to the Depth when fuse clips are included.(50 thru 350VA)
- Add 1/2" to the Height when fuse block is included (1, 2, and 3 poles) (500 thru 5000VA)
- Add 1 3/8" to the Height when fuse block is included (1, 2, and 3 poles) (50 thru 350VA)



Wiring Diagram

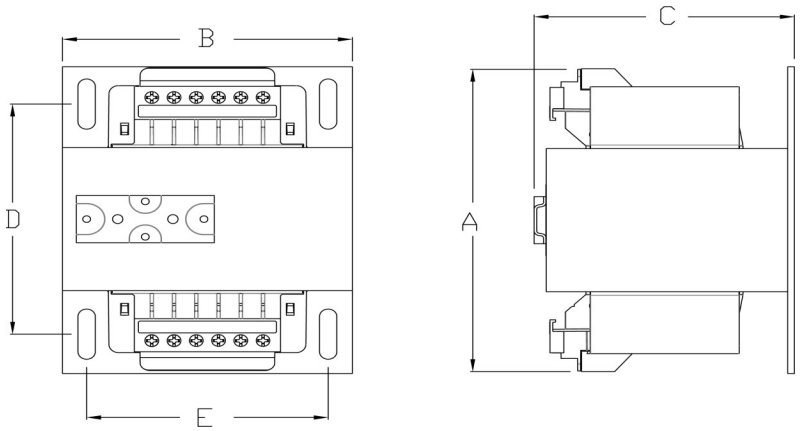


Image is a general representation of a typical MAG Control Transformer without fusing accessories or jumper links. Transformers 50VA - 350VA have 4 terminals per side, and units 500VA and higher have 6 terminals per side.

CL SERIES

PRI	SEC
200/220/440	23/110
208/230/460	24/115
/240/480	25/120

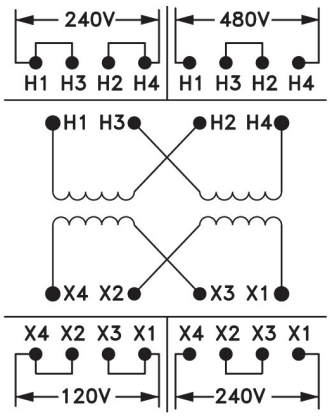
Approximate Dimensions and Weight

VA Rating	MPC Part #	Max Depth (A)	Max Width (B)	Max Height (C)	Mounting Depth (D)	Mounting Depth (E)	Mounting Hole Depth	Mounting Hole Width	Shipping Weight (lbs.)
50	MPC2-1B050CLU	3.73	3.00	2.79	2.50	2.50	0.20	0.41	3.50
75	MPC2-1B075CLU	3.69	3.38	3.11	2.38	2.81	0.20	0.41	4.20
100	MPC2-1B100CLU	4.17	3.75	3.42	2.88	3.13	0.20	0.41	6.70
150	MPC2-2B150CLU	4.17	3.75	3.42	2.88	3.13	0.20	0.41	6.70
200	MPC2-2B200CLU	4.46	4.50	4.04	2.88	3.75	0.20	0.41	10.00
250	MPC2-2B250CLU	5.19	4.50	4.04	3.75	3.75	0.20	0.41	13.60
300	MPC2-2B300CLU	5.19	4.50	4.04	3.75	3.75	0.20	0.41	13.60
350	MPC2-2B350CLU	5.17	5.25	4.66	4.25	4.38	0.31	1.06	16.20
500	MPC2-2B500CLU	6.42	5.25	4.66	5.38	4.38	0.31	1.06	28.10
750	MPC2-2B750CLU	7.23	7.00	5.65	4.00	6.13	0.31	1.06	30.00
1000	MPC2-1H1KOCLU	7.98	7.00	5.43	5.13	6.13	0.31	1.06	38.00

- **Add end suffix for fusing options**

Notes:

- Jumper Link and Fuse Clip Height not included
- Add 5/16" to the Depth when fuse clips are included.(50 thru 350VA)
- Add 1/2" to the Height when fuse block is included (1, 2, and 3 poles)
- Add 1 3/8" to the Height when fuse block is included (1, 2, and 3 poles)



Wiring Diagram

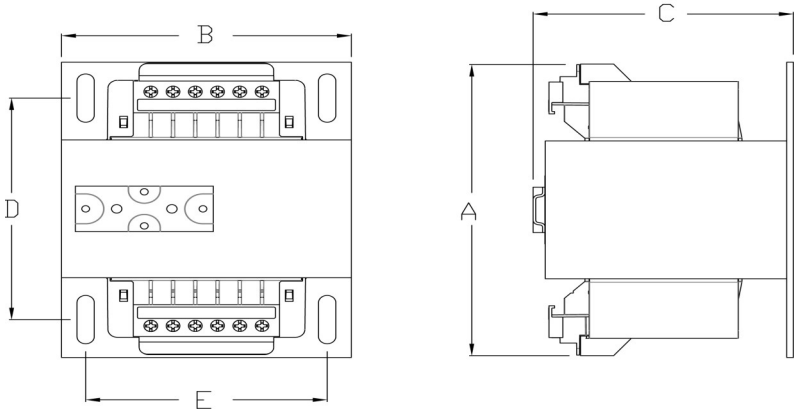


Image is a general representation of a typical MAG Control Transformer without fusing accessories or jumper links. Transformers 50VA - 350VA have 4 terminals per side, and units 500VA and higher have 6 terminals per side.

BA SERIES

PRI	SEC
240 X 480	120 X 240

Approximate Dimensions and Weight

VA Rating	MPC Part #	Max Depth (A)	Max Width (B)	Max Height (C)	Mounting Depth (D)	Mounting Depth (E)	Mounting Hole Depth	Mounting Hole Width	Shipping Weight (lbs.)
50	MPC2-1B050BAU*	3.41	3.00	2.79	2.00	2.50	0.20	0.41	2.60
75	MPC2-1B075BAU*	3.91	3.00	2.79	2.50	2.50	0.20	0.41	3.50
100	MPC2-1B100BAU*	3.86	3.38	3.10	2.38	2.81	0.20	0.41	4.20
150	MPC2-2B150BAU*	4.36	3.75	3.41	2.88	3.13	0.20	0.41	6.70
200	MPC2-2B200BAU*	4.14	4.50	4.04	2.50	3.75	0.20	0.41	8.50
250	MPC2-2B250BAU*	4.64	4.50	4.04	2.88	3.75	0.20	0.41	10.00
300	MPC2-2B300BAU*	4.64	4.50	4.04	3.25	3.75	0.20	0.41	11.30
350	MPC2-2B350BAU*	5.37	4.50	4.04	3.75	3.75	0.20	0.41	13.60
500	MPC2-2B500BAU	5.75	5.25	4.66	4.25	4.38	0.31	1.06	17.25
750	MPC2-2B750BAU	6.74	5.25	4.66	5.38	4.38	0.31	1.06	28.10
1,000	MPC2-1H1K0BAU	7.01	7.00	5.65	5.38	4.38	0.31	1.06	29.80
1,500	MPC2-1H1K5BAU	8.00	7.00	5.65	4.50	6.13	0.31	1.06	30.00
2,000	MPC2-1H2K0BAU	8.76	7.00	5.65	5.13	6.13	0.31	1.06	38.00
3,000	MPC2-1H3K0BAU**	8.14	9.00	7.62	4.25	6.50	0.44	1.00	53.00
5,000	MPC2-1H5K0BAU**	9.14	9.00	7.62	7.25	7.50	0.44	1.00	89.00

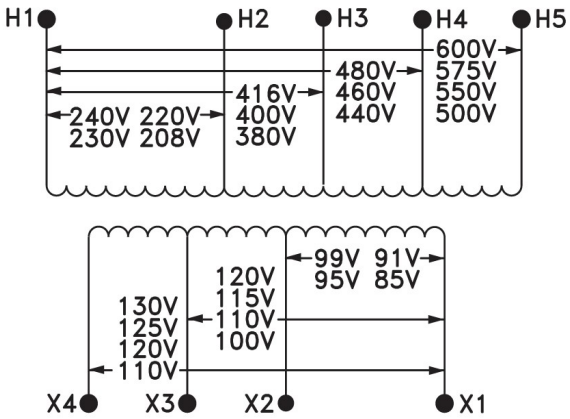
*** This model is not available with the FO option (Consider F1)**

**** No Fuse Kit is available for this model**

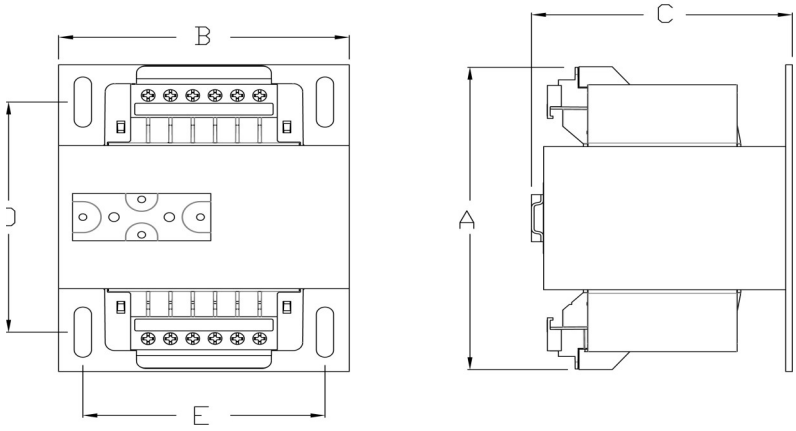
- **Add end suffix for fusing options**
- **Add C to suffix for the covers**

Notes:

- Jumper Link and Fuse Clip Height not included
- Add 5/16" to the Depth when fuse clips are included.(50 thru 350VA)
- Add 1/2" to the Height when fuse block is included (1, 2, and 3 poles) (500 thru 5000VA)
- Add 1 3/8" to the Height when fuse block is included (1, 2, and 3 poles) (50 thru 350VA)



Wiring Diagram



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ZZ SERIES
(Universal Voltage)

PRI	SEC
600/480/416/240	99/120/130
575/460/400/230	95/115/125
550/440/380/220	91/110/120
500/ / /208	85/100/110

Approximate Dimensions and Weight

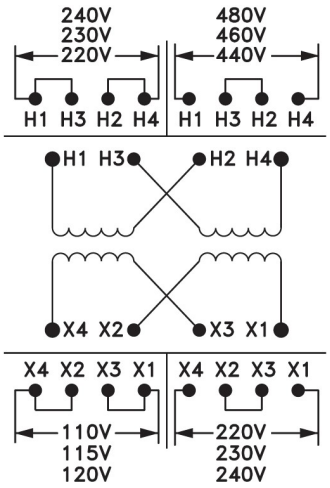
VA Rating	MPC Part #	Max Depth (A)	Max Width (B)	Max Height (C)	Mounting Depth (D)	Mounting Depth (E)	Mounting Hole Depth	Mounting Hole Width	Shipping Weight (lbs.)
50	MPC2-1B050ZZU*	4.44	3.00	3.45	2.38	2.81	0.20	0.41	4.20
100	MPC2-1B100ZZU*	4.90	3.75	4.01	2.88	3.13	0.20	0.41	6.70
150	MPC2-2B150ZZU*	4.58	4.50	4.64	2.88	3.75	0.20	0.41	10.00
250	MPC2-2B250ZZU*	5.08	4.50	4.64	3.75	3.75	0.20	0.41	13.60
350	MPC2-2B350ZZU	6.42	5.25	4.66	5.38	4.38	0.31	1.06	28.10
500	MPC2-2B500ZZU	7.75	5.25	4.67	6.13	4.38	0.31	1.06	28.10
750	MPC2-2B750ZZU	6.21	6.38	5.65	4.00	6.13	0.31	1.06	29.80

*** This model is not available with the FO option (Consider F1)**

- **Add end suffix for fusing options**
- **Add C to suffix for the covers**

Notes:

- Jumper Link and Fuse Clip Height not included
- Add 5/16" to the Depth when fuse clips are included.(50 thru 350VA)
- Add 1/2" to the Height when fuse block is included (1, 2, and 3 poles)
- Add 1 3/8" to the Height when fuse block is included (1, 2, and 3 poles)



Wiring Diagram

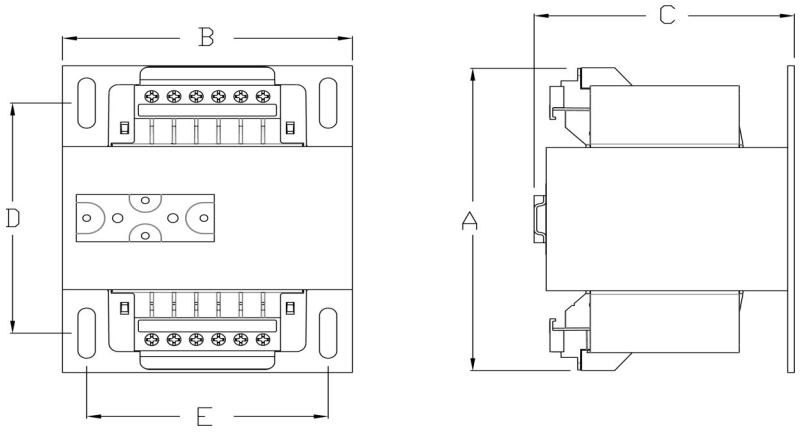


Image is a general representation of a typical MAG Control Transformer without fusing accessories or jumper links. Transformers 50VA - 350VA have 4 terminals per side, and units 500VA and higher have 6 terminals per side.

DY SERIES

PRI	SEC
220 X 440	110 X 220
230 X 460	115 X 230
240 X 480	120 X 240

Approximate Dimensions and Weight

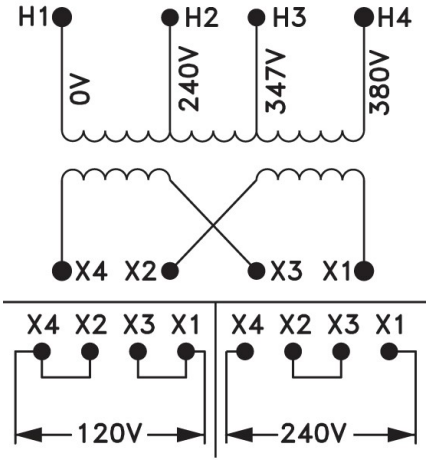
VA Rating	MPC Part #	Max Depth (A)	Max Width (B)	Max Height (C)	Mounting Depth (D)	Mounting Depth (E)	Mounting Hole Depth	Mounting Hole Width	Shipping Weight (lbs.)
1,000	MPC2-1H1K0DYU	7.01	7.00	5.65	5.38	4.38	0.31	1.06	29.80
1,500	MPC2-1H1K5DYU	8.00	7.00	5.65	4.50	6.13	0.31	1.06	30.00
2,000	MPC2-1H2K0DYU	8.76	7.00	5.65	5.13	6.13	0.31	1.06	38.00
3,000	MPC2-1H3K0DYU**	8.14	9.00	7.62	4.25	6.50	0.44	1.00	53.00
5,000	MPC2-1H5K0DYU**	9.14	9.00	7.62	7.25	7.50	0.44	1.00	89.00

**** No Fuse Kit is available for this model**

- **Add end suffix for fusing options**
- **Add C to suffix for the covers**

Notes:

- Jumper Link and Fuse Clip Height not included
- Add 5/16" to the Depth when fuse clips are included.(50 thru 350VA)
- Add 1/2" to the Height when fuse block is included (1, 2, and 3 poles)
- Add 1 3/8" to the Height when fuse block is included (1, 2, and 3 poles)



Wiring Diagram

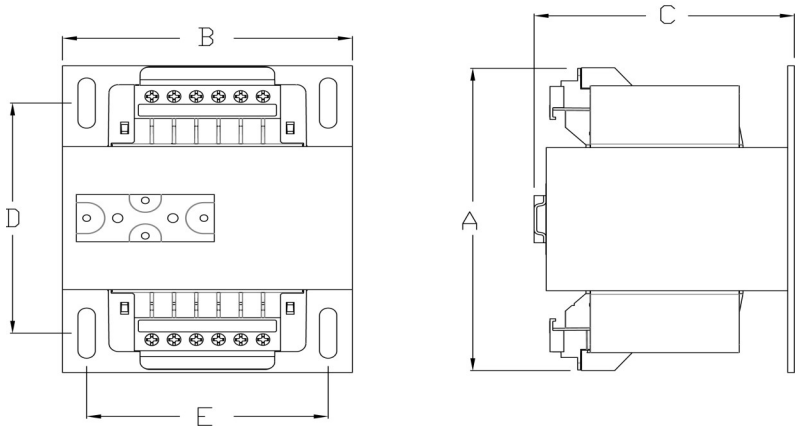


Image is a general representation of a typical MAG Control Transformer without fusing accessories or jumper links. Transformers 50VA - 350VA have 4 terminals per side, and units 500VA and higher have 6 terminals per side.

RA SERIES

PRI	SEC
240/347/380	120 X 240

Approximate Dimensions and Weight

VA Rating	MPC Part #	Max Depth (A)	Max Width (B)	Max Height (C)	Mounting Depth (D)	Mounting Depth (E)	Mounting Hole Depth	Mounting Hole Width	Shipping Weight (lbs.)
1,000	**MPC2-1H1K0RAU**	6.23	7.00	5.65	4.00	6.13	0.31	1.06	29.80
1,500	**MPC2-1H1K5RAU**	7.23	7.00	5.65	4.50	6.13	0.31	1.06	30.00
2,000	**MPC2-1H2K0RAU**	7.98	7.00	5.65	5.13	6.13	0.31	1.06	38.00
3,000	**MPC2-1H3K0RAU****	7.82	9.00	7.62	4.25	6.50	0.44	1.00	53.00
5,000	**MPC2-1H5K0RAU****	8.81	9.00	7.62	7.25	7.50	0.44	1.00	89.00

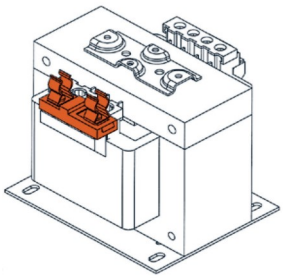
**** No Fuse Kit is available for this model**

- **Add end suffix for fusing options**
- **Add C to suffix for the covers**

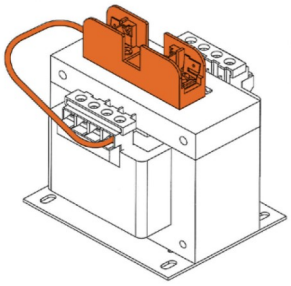
Notes:

- Jumper Link and Fuse Clip Height not included
- Add 5/16" to the Depth when fuse clips are included.(50 thru 350VA)
- Add 1/2" to the Height when fuse block is included (1, 2, and 3 poles)
- Add 1 3/8" to the Height when fuse block is included (1, 2, and 3 poles)

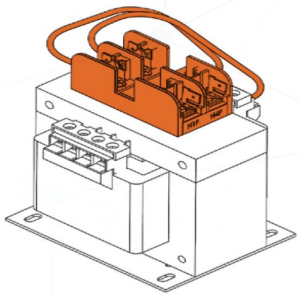
Fusing Options



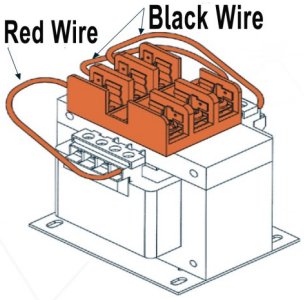
Option: FO



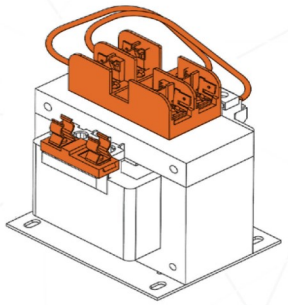
Option: F1



Option: F2



Option: F3



Option: F4

Option (Add to MPC #)	**MPC Part #** (Ordered Separately)	**FUSING OPTIONS**
C	**MCP2-ACC-PFBCVK**	PRI Fuse Cover Kit with Puller
C	**MCP2-ACC-SFBCVK**	Secondary Fuse Cover Kit
FO	**MCP2-ACC-FOB**	Kit Secondary Fuse Clips (45VA-750VA)
F0	**MCP2-ACC-FOH**	Kit Secondary Fuse Clips (1KVA-5KVA)
F1	**MCP2-ACC-F1**	Kit SEC Fuse Block 1 - Midget
F2	**MCP2-ACC-F2**	Kit PRI Fuse Block 2 - CC
F3	**MCP2-ACC-F3**	Kit Fuse Block 2 - CC & 1-Midget
F4	**MCP2-ACC-F4**	Kit Fuse Block 2 - CC & Clips

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