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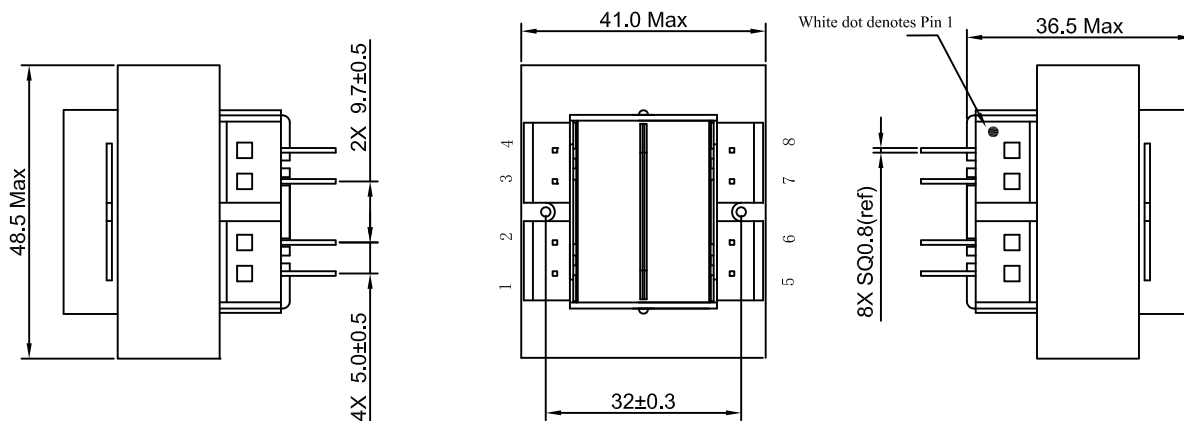
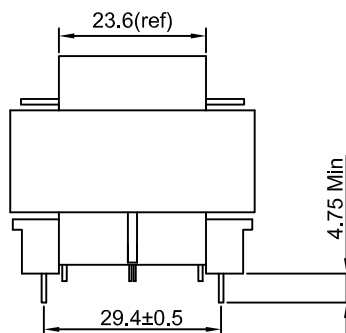
# TRANSFORMER, POWER, PCB 10.0VA DUAL PRIMARIES AND DUAL SECONDARIES

| PAGE REV | DESCRIPTION            | DATE       | BY    |
|----------|------------------------|------------|-------|
| A0       | CREATED                | 2002-08-23 | ZHENG |
| B0       | Updated PCD            | 2012-09-14 | ye    |
| B1       | Updated PCD            | 2014-01-21 | ye    |
| B2       | Modify the pin length. | 2014-07-31 | ye    |
| B3       | Updated PCD            | 2020-06-30 | Chend |

## 1. ELECTRICAL SPECIFICATIONS:

- A. Input Voltage and Frequency: 115/230V @ 50/60 Hz
- B. Secondary Voltage: See Electrical Table
- C. Temperature Rise: 95°C MAX allowed.
- D. Insulation Resistance:
- 100M Ohm Min @ 500VDC PRI to SEC.PRI to CORE
- 100M Ohm Min @ 500VDC SEC to CORE
- E. Hi-Pot:
- 4200Vrms 1 minute @ PRI to SEC
- 4200Vrms 1 minute @ PRI to CORE
- 4200Vrms 1 minute @ SEC to CORE
- F. Safety:
- Insulation System Designation ZM130-7, Class B, UL File No.177235
- UL5085-3, Class 2, 3, US and Canada, UL File No.E214561
- CE Declaration of Conformity: IEC EN61558-1

## 2. MECHANICAL SPECIFICATIONS:



| UNIT<br>MM    | TOLERANCE<br>X.X = ±0.5<br>X.XX = ±0.3<br>ANG = - | <b>ZETTLER MAGNETICS</b>            |                |               |
|---------------|---------------------------------------------------|-------------------------------------|----------------|---------------|
| 3RD ANGLE<br> |                                                   | TITLE: POWER TRANSFORMER, PCB 1.0VA |                |               |
| SCALE:        | DATA                                              | PART NO:                            | ZM Project:    | SPEC REV: B/3 |
| DRAWN: Chend  | 2020-06-30                                        | AH1010 SERIES                       | Customers p/n: | SH NO 1/2     |
| CHECKED:      |                                                   |                                     |                |               |
| APPROVED:     |                                                   |                                     |                |               |

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E-mail: [sales@zettlermagnetics.com](mailto:sales@zettlermagnetics.com)

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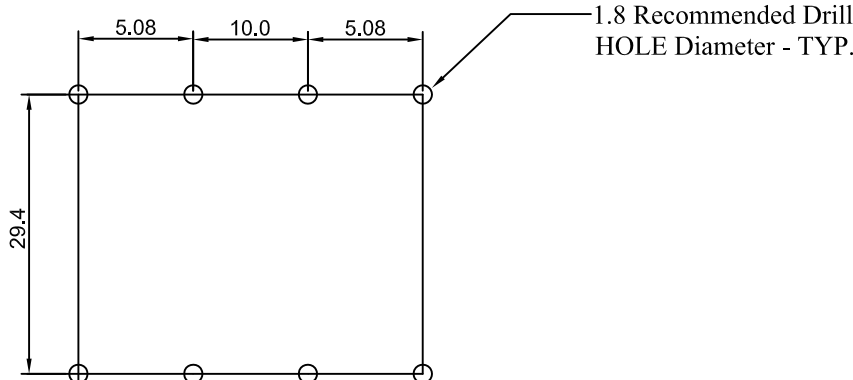
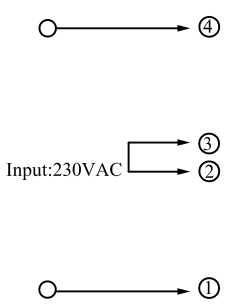
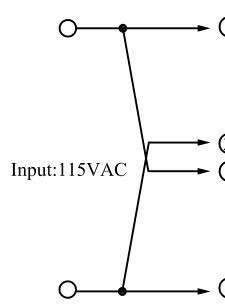
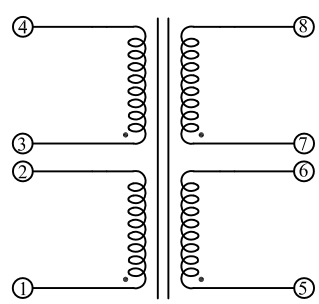
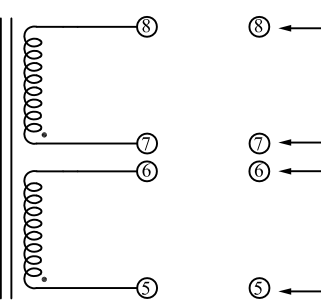
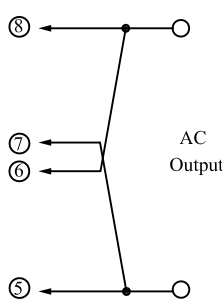
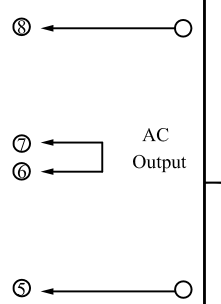
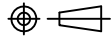
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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------|-------------------|----------|-------------------|------------------------|--|------------|--------|---------------------|--|-------------------|--|----------|----------|----------|----------|----------|----------|----|----|-----|----|----------|------|------|-------|------|----------|----|------|-----|------|----------|-----|----|-----|------|----------|-----|-------|-----|-------|----------|-----|-------|-----|-------|----------|-----|-------|-----|-------|--|--|--|--|--|--|--|--|
| <div>3. MOUNTING FOOTPRINT:</div> <div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |                                                                                    |                   | PAGE REV |                   | DESCRIPTION            |  | DATE       |        | BY                  |  |                   |  |          |          |          |          |          |          |    |    |     |    |          |      |      |       |      |          |    |      |     |      |          |     |    |     |      |          |     |       |     |       |          |     |       |     |       |          |     |       |     |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |                                                                                    |                   | A0       |                   | CREATED                |  | 2012-08-23 |        | ZHENG               |  |                   |  |          |          |          |          |          |          |    |    |     |    |          |      |      |       |      |          |    |      |     |      |          |     |    |     |      |          |     |       |     |       |          |     |       |     |       |          |     |       |     |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |                                                                                    |                   | B0       |                   | Updated PCD            |  | 2012-09-14 |        | ye                  |  |                   |  |          |          |          |          |          |          |    |    |     |    |          |      |      |       |      |          |    |      |     |      |          |     |    |     |      |          |     |       |     |       |          |     |       |     |       |          |     |       |     |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |                                                                                    |                   | B1       |                   | Updated PCD            |  | 2014-01-21 |        | ye                  |  |                   |  |          |          |          |          |          |          |    |    |     |    |          |      |      |       |      |          |    |      |     |      |          |     |    |     |      |          |     |       |     |       |          |     |       |     |       |          |     |       |     |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |                                                                                    |                   | B2       |                   | Modify the pin length. |  | 2014-07-31 |        | ye                  |  |                   |  |          |          |          |          |          |          |    |    |     |    |          |      |      |       |      |          |    |      |     |      |          |     |    |     |      |          |     |       |     |       |          |     |       |     |       |          |     |       |     |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |                                                                                    |                   | B3       |                   | Updated PCD            |  | 2020-06-30 |        | Chencl              |  |                   |  |          |          |          |          |          |          |    |    |     |    |          |      |      |       |      |          |    |      |     |      |          |     |    |     |      |          |     |       |     |       |          |     |       |     |       |          |     |       |     |       |  |  |  |  |  |  |  |  |
| <div>4. SCHEMATIC DIAGRAM:</div> <div><div><div>Series</div><div></div></div><div><div>Parallel</div><div></div></div><div><div>Input</div><div></div></div><div><div>Output</div><div></div></div><div><div>Parallel</div><div></div></div><div><div>Series</div><div></div></div></div>                                                             |                     |                                                                                    |                   |          |                   |                        |  |            |        |                     |  |                   |  |          |          |          |          |          |          |    |    |     |    |          |      |      |       |      |          |    |      |     |      |          |     |    |     |      |          |     |       |     |       |          |     |       |     |       |          |     |       |     |       |  |  |  |  |  |  |  |  |
| <div>5. ELECTRICAL TABLE:</div> <table><tr><th>INPUT</th><th colspan="4">SERIES / PARALLEL</th></tr><tr><th>OUTPUT</th><th colspan="2">PARALLEL CONNECTION</th><th colspan="2">SERIES CONNECTION</th></tr><tr><th>PART NO.</th><th>AC VOLTS</th><th>RMS AMPS</th><th>AC VOLTS</th><th>RMS AMPS</th></tr><tr><td>AHI01010</td><td>5V</td><td>2A</td><td>10V</td><td>1A</td></tr><tr><td>AHI01012</td><td>6.3V</td><td>1.6A</td><td>12.6V</td><td>0.8A</td></tr><tr><td>AHI01016</td><td>8V</td><td>1.2A</td><td>16V</td><td>0.6A</td></tr><tr><td>AHI01020</td><td>10V</td><td>1A</td><td>20V</td><td>0.5A</td></tr><tr><td>AHI01024</td><td>12V</td><td>0.84A</td><td>24V</td><td>0.42A</td></tr><tr><td>AHI01028</td><td>14V</td><td>0.72A</td><td>28V</td><td>0.36A</td></tr><tr><td>AHI01036</td><td>18V</td><td>0.56A</td><td>36V</td><td>0.28A</td></tr></table> |                     |                                                                                    |                   | INPUT    | SERIES / PARALLEL |                        |  |            | OUTPUT | PARALLEL CONNECTION |  | SERIES CONNECTION |  | PART NO. | AC VOLTS | RMS AMPS | AC VOLTS | RMS AMPS | AHI01010 | 5V | 2A | 10V | 1A | AHI01012 | 6.3V | 1.6A | 12.6V | 0.8A | AHI01016 | 8V | 1.2A | 16V | 0.6A | AHI01020 | 10V | 1A | 20V | 0.5A | AHI01024 | 12V | 0.84A | 24V | 0.42A | AHI01028 | 14V | 0.72A | 28V | 0.36A | AHI01036 | 18V | 0.56A | 36V | 0.28A |  |  |  |  |  |  |  |  |
| INPUT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | SERIES / PARALLEL   |                                                                                    |                   |          |                   |                        |  |            |        |                     |  |                   |  |          |          |          |          |          |          |    |    |     |    |          |      |      |       |      |          |    |      |     |      |          |     |    |     |      |          |     |       |     |       |          |     |       |     |       |          |     |       |     |       |  |  |  |  |  |  |  |  |
| OUTPUT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PARALLEL CONNECTION |                                                                                    | SERIES CONNECTION |          |                   |                        |  |            |        |                     |  |                   |  |          |          |          |          |          |          |    |    |     |    |          |      |      |       |      |          |    |      |     |      |          |     |    |     |      |          |     |       |     |       |          |     |       |     |       |          |     |       |     |       |  |  |  |  |  |  |  |  |
| PART NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | AC VOLTS            | RMS AMPS                                                                           | AC VOLTS          | RMS AMPS |                   |                        |  |            |        |                     |  |                   |  |          |          |          |          |          |          |    |    |     |    |          |      |      |       |      |          |    |      |     |      |          |     |    |     |      |          |     |       |     |       |          |     |       |     |       |          |     |       |     |       |  |  |  |  |  |  |  |  |
| AHI01010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5V                  | 2A                                                                                 | 10V               | 1A       |                   |                        |  |            |        |                     |  |                   |  |          |          |          |          |          |          |    |    |     |    |          |      |      |       |      |          |    |      |     |      |          |     |    |     |      |          |     |       |     |       |          |     |       |     |       |          |     |       |     |       |  |  |  |  |  |  |  |  |
| AHI01012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6.3V                | 1.6A                                                                               | 12.6V             | 0.8A     |                   |                        |  |            |        |                     |  |                   |  |          |          |          |          |          |          |    |    |     |    |          |      |      |       |      |          |    |      |     |      |          |     |    |     |      |          |     |       |     |       |          |     |       |     |       |          |     |       |     |       |  |  |  |  |  |  |  |  |
| AHI01016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 8V                  | 1.2A                                                                               | 16V               | 0.6A     |                   |                        |  |            |        |                     |  |                   |  |          |          |          |          |          |          |    |    |     |    |          |      |      |       |      |          |    |      |     |      |          |     |    |     |      |          |     |       |     |       |          |     |       |     |       |          |     |       |     |       |  |  |  |  |  |  |  |  |
| AHI01020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10V                 | 1A                                                                                 | 20V               | 0.5A     |                   |                        |  |            |        |                     |  |                   |  |          |          |          |          |          |          |    |    |     |    |          |      |      |       |      |          |    |      |     |      |          |     |    |     |      |          |     |       |     |       |          |     |       |     |       |          |     |       |     |       |  |  |  |  |  |  |  |  |
| AHI01024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12V                 | 0.84A                                                                              | 24V               | 0.42A    |                   |                        |  |            |        |                     |  |                   |  |          |          |          |          |          |          |    |    |     |    |          |      |      |       |      |          |    |      |     |      |          |     |    |     |      |          |     |       |     |       |          |     |       |     |       |          |     |       |     |       |  |  |  |  |  |  |  |  |
| AHI01028                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 14V                 | 0.72A                                                                              | 28V               | 0.36A    |                   |                        |  |            |        |                     |  |                   |  |          |          |          |          |          |          |    |    |     |    |          |      |      |       |      |          |    |      |     |      |          |     |    |     |      |          |     |       |     |       |          |     |       |     |       |          |     |       |     |       |  |  |  |  |  |  |  |  |
| AHI01036                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 18V                 | 0.56A                                                                              | 36V               | 0.28A    |                   |                        |  |            |        |                     |  |                   |  |          |          |          |          |          |          |    |    |     |    |          |      |      |       |      |          |    |      |     |      |          |     |    |     |      |          |     |       |     |       |          |     |       |     |       |          |     |       |     |       |  |  |  |  |  |  |  |  |
| <div><div><div>UNIT<br/>MM</div><div>3RD ANGLE</div><div></div></div><div>SCALE:</div><div>DRAWN: Chencl</div><div>CHECKED:</div><div>APPROVED:</div></div> <div><div>TOLERANCE</div><div>X.X = ±0.5</div><div>X.XX = ±0.3</div><div>ANG = -</div></div> <div><div>TITLE:</div><div>POWER TRANSFORMER, PCB 1.0VA</div></div> <div><div>PART NO:</div><div>AHI010 SERIES</div></div> <div><div>ZM Project:</div><div>Customers p/n:</div></div> <div><div>SPEC REV: B/3</div><div>SH NO 2/2</div></div>                                                                                                                                                                                                                                                                             |                     |                                                                                    |                   |          |                   |                        |  |            |        |                     |  |                   |  |          |          |          |          |          |          |    |    |     |    |          |      |      |       |      |          |    |      |     |      |          |     |    |     |      |          |     |       |     |       |          |     |       |     |       |          |     |       |     |       |  |  |  |  |  |  |  |  |
| Web: <a href="http://www.zettlermagnetics.com">www.zettlermagnetics.com</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     | E-mail: <a href="mailto:sales@zettlermagnetics.com">sales@zettlermagnetics.com</a> |                   |          |                   |                        |  |            |        |                     |  |                   |  |          |          |          |          |          |          |    |    |     |    |          |      |      |       |      |          |    |      |     |      |          |     |    |     |      |          |     |       |     |       |          |     |       |     |       |          |     |       |     |       |  |  |  |  |  |  |  |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     | 2                                                                                  |                   | 3        |                   | 4                      |  | 5          |        | 6                   |  |                   |  |          |          |          |          |          |          |    |    |     |    |          |      |      |       |      |          |    |      |     |      |          |     |    |     |      |          |     |       |     |       |          |     |       |     |       |          |     |       |     |       |  |  |  |  |  |  |  |  |