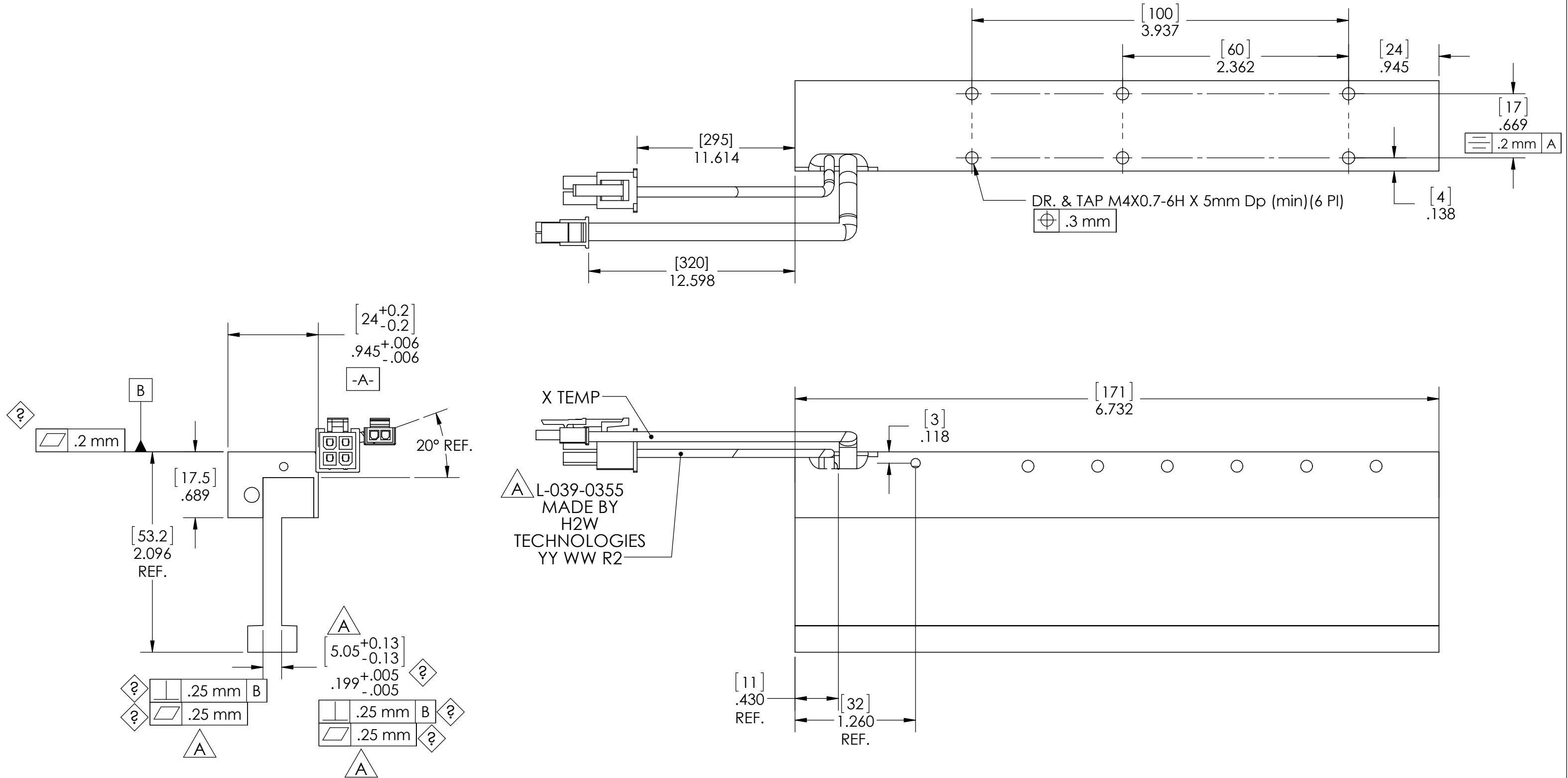


These drawings and specifications are the property of H2W Technologies, Inc. They are issued in confidence and shall not be reproduced, copied, or used without written permission from H2W Technologies, Inc.

| REVISION TABLE |      |                  |  |  |        |          |          |
|----------------|------|------------------|--|--|--------|----------|----------|
| REV            | ECN# | DESCRIPTION      |  |  | REV BY | APPROVED | DATE     |
| ---            | ---  | Original Drawing |  |  | SDC    | MPW      | 06-11-15 |



- NOTES:
1. ASSEMBLY REFERENCE DRAWING ONLY.
  2. SEE SECOND SHEET FOR CONNECTOR DETAIL.
  3. COIL MASS = 0.61 lbs.
  4. SEE BUS FOR MOTOR PARAMETER.

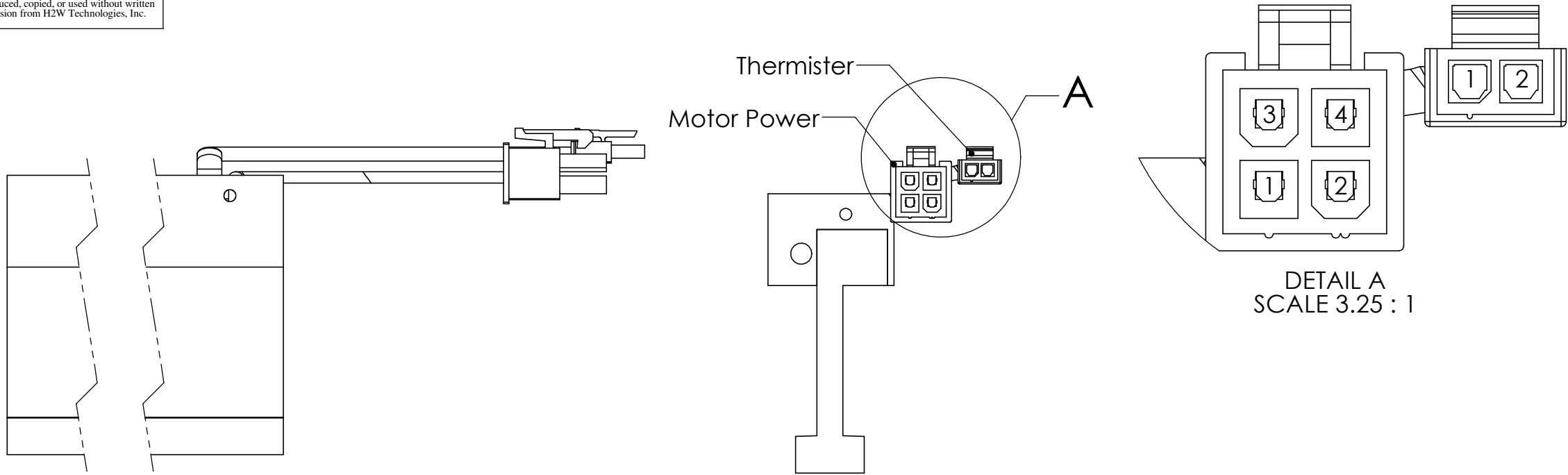
◇ - DENOTES CRITICAL DIMENSIONS

|                                                                                                                                                                                                                  |  |  |  |          |  |          |  |         |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|----------|--|----------|--|---------|--|
| UNLESS SPECIFIED OTHERWISE:<br>All dimensions are in inches<br>Standard Tolerances are as follows<br>.XXX ±.005 ANGLES ±1°<br>.XX ±.010 FILLETS AND<br>.X ±.020 CORNERS .010<br>Remove All Burrs and Sharp Edges |  |  |  | MATERIAL |  | FINISH   |  | TITLE   |  |
|                                                                                                                                                                                                                  |  |  |  | DRAWN    |  | DATE     |  | DWG #   |  |
|                                                                                                                                                                                                                  |  |  |  | SDC      |  | 09-02-15 |  | 20-0250 |  |
|                                                                                                                                                                                                                  |  |  |  | APPROVED |  | DATE     |  | REV     |  |
|                                                                                                                                                                                                                  |  |  |  | MPW      |  | 09-02-15 |  | ---     |  |
|                                                                                                                                                                                                                  |  |  |  |          |  |          |  | SHEET   |  |
|                                                                                                                                                                                                                  |  |  |  |          |  |          |  | 1 of 3  |  |



**Ironless Motor Coil**  
**Model #: BLDM-B12**

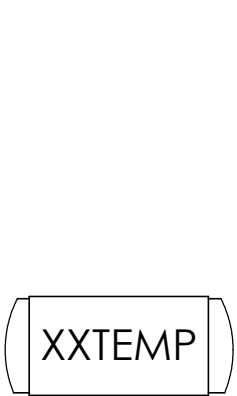
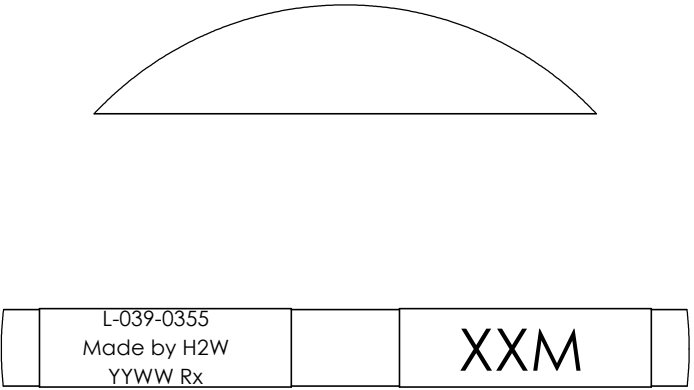
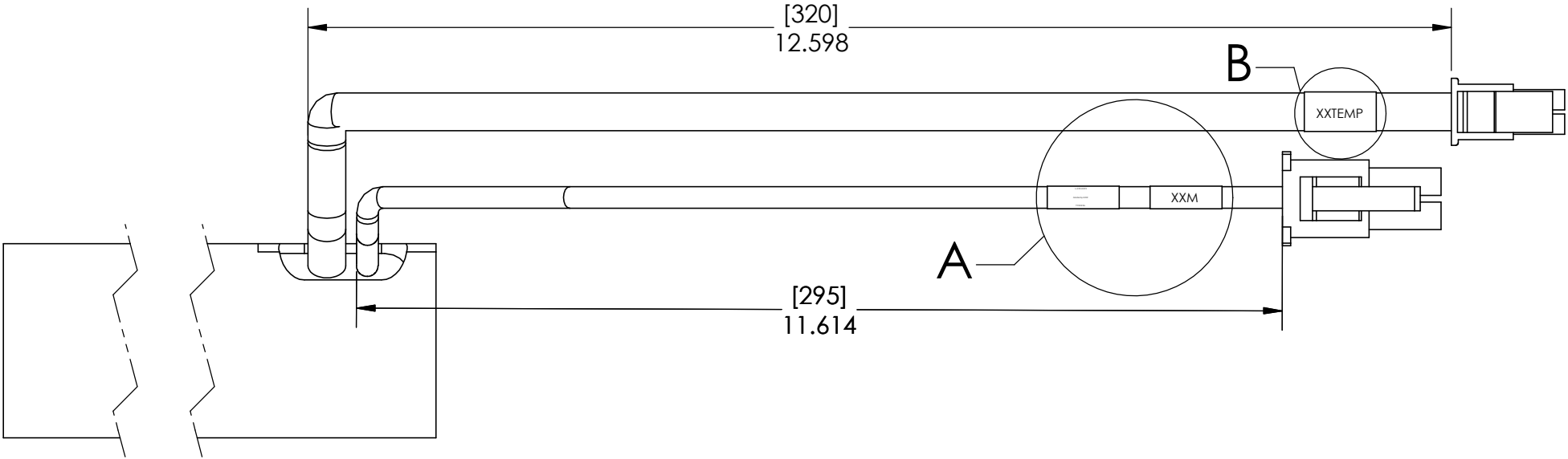
These drawings and specifications are the property of H2W Technologies, Inc. They are issued in confidence and shall not be reproduced, copied, or used without written permission from H2W Technologies, Inc.

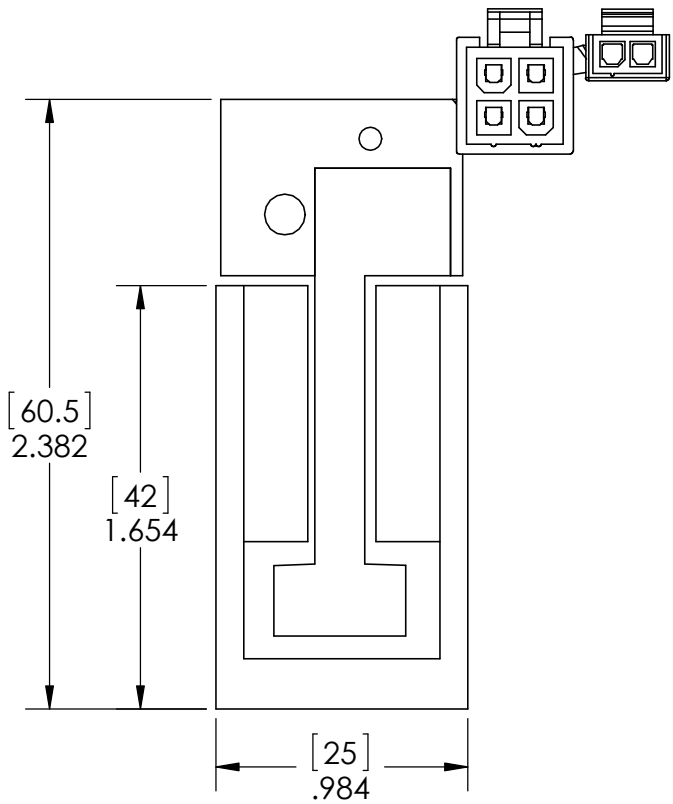


| Thermistor |              |            |
|------------|--------------|------------|
| Pin        | Function     | Lead Color |
| 1          | Thermistor 1 | Red        |
| 1          | Thermistor 2 | White      |

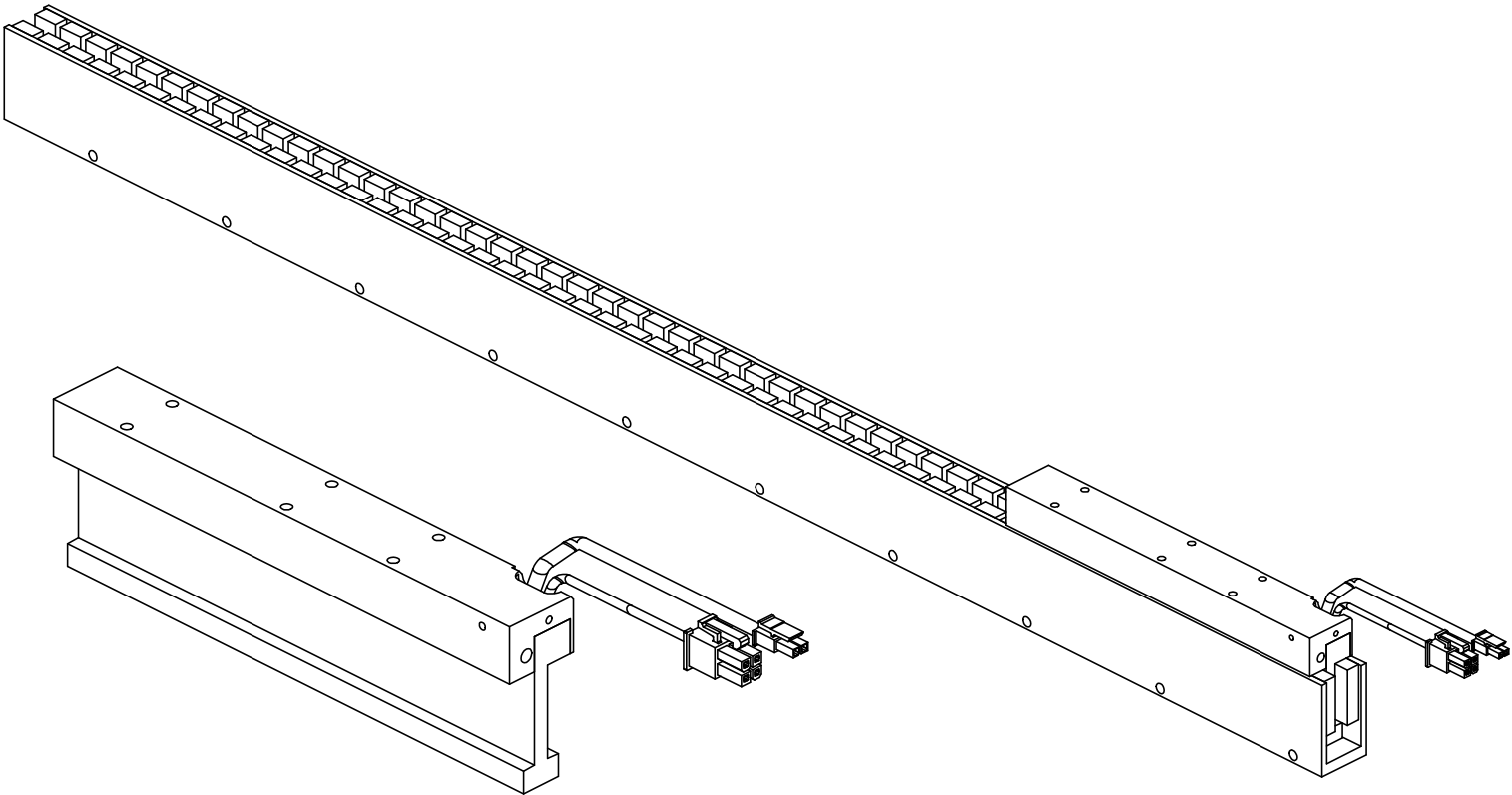
| Motor Power |          |            |
|-------------|----------|------------|
| Pin         | Function | Lead Color |
| 1           | Phase A  | Red        |
| 2           | Phase B  | White      |
| 4           | Phase C  | Black      |
| 4           | Ground   | Green      |

- NOTES:
1. CABLE - UL APPROVED.
  2. CONNECTOR VIEW FROM CONNECTION SIDE.
  3. YY & WW STAND FOR YEAR AND WORKWEEK OF MANUFACTURER.





MOTOR COIL SHOWN  
WITH MAGNET TRACK  
(P/N: BLDT-B29)



| Motor Specifications    |                    |             |
|-------------------------|--------------------|-------------|
| BLDM-D12                |                    |             |
| General                 |                    |             |
| Continuous Force        | lbs [N]            | 10.2 [45.6] |
| Continuous Current      | Amps               | 1.6         |
| Continuous Power        | Watts              | 21.5        |
| Peak Force @ 10% Duty   | lbs [N]            | 30.7 [137]  |
| Peak Current @ 10% Duty | Amps               | 4.8         |
| Peak Power @ 10% Duty   | Watts              | 194         |
| Electrical              |                    |             |
| Force Constant          | lbs/Amp [N/Amp]    | 6.4 [28.5]  |
| Back EMF                | V/in/sec [V/m/sec] | 0.72 [28.5] |
| Resistance              | Ohms               | 8.4         |
| Km Motor Constant       | lbs/sqW [N/sqW]    | 2.21 [9.8]  |
| Mechanical              |                    |             |
| Electrical Cycle Length | in [mm]            | 1.12 [28.4] |
| Number of Poles         | 12                 |             |
| Coil Assembly Length    |                    |             |
| without Hall Sensor     | in [mm]            | 6.7 [171]   |
| Coil Assembly Weight    | lbs [kg]           | 0.70 [0.32] |