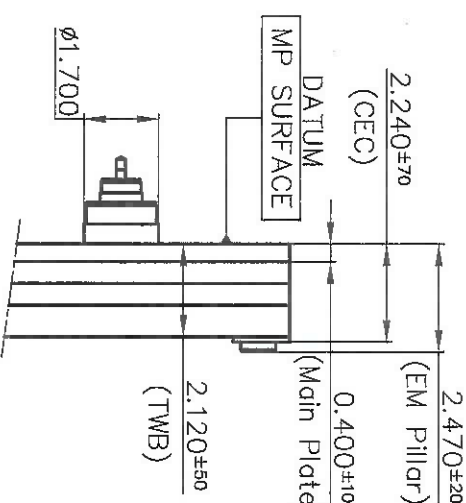




BRIDGE SIDE

| | | | |
|-------------------------------|-----------------------|-----|-----|
| Functions | 3Hands | | |
| | Hour | Min | Sec |
| Angular rotation per pulse | 1° | 1° | 1° |
| No of steps for 360° rotation | 360 | 360 | -- |
| Direction | BI-DIRECTIONAL | | |
| Movement size | ø19.200x14.664x14.050 | | |
| Movt Thickness (TWB) | 2.120±50 | | |

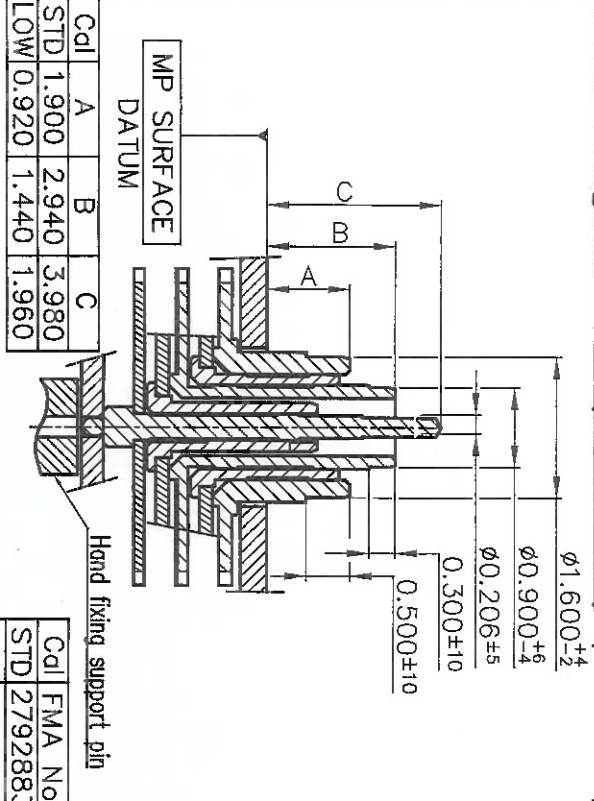


Note: TWB Screw (4 Pos) relief to be provided in the PCBA

(Scale 12:1)

4) Motor parameters were tested using KEYSIGHT N6705B DC Power Analyzer

Hand fitting dimensions(Section A-A) (Scale 1:2.1)



K: \Drawings\Motors\Motor-C20 & C3H\2D\Mass\General\Tech Data_Metal.dwg

| POS | X-AXIS | Y-AXIS | ϕ /RADIUS |
|-----|--------|--------|------------------------------|
| 21 | 0.000 | 0.000 | $\phi 1.120^{+0.25}_{-0.25}$ |
| d | -0.052 | -1.150 | R0.250 |
| b | 0.715 | 1.231 | R0.200 |
| c | 1.165 | 0.008 | R0.250 |
| 13 | 1.600 | -0.046 | R0.600 |
| 1 | 1.522 | -1.250 | R0.150 |

| | A | B | C |
|-----|-------|-------|-------|
| Col | | | |
| STD | 1.900 | 2.940 | 3.980 |
| LOW | 0.920 | 1.440 | 1.960 |

| | |
|------|---------|
| Call | FMA No |
| STD | 2792883 |
| LOW | 2792897 |

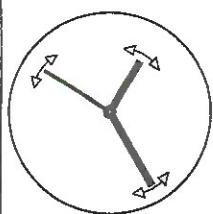
[illegible]

Notes:

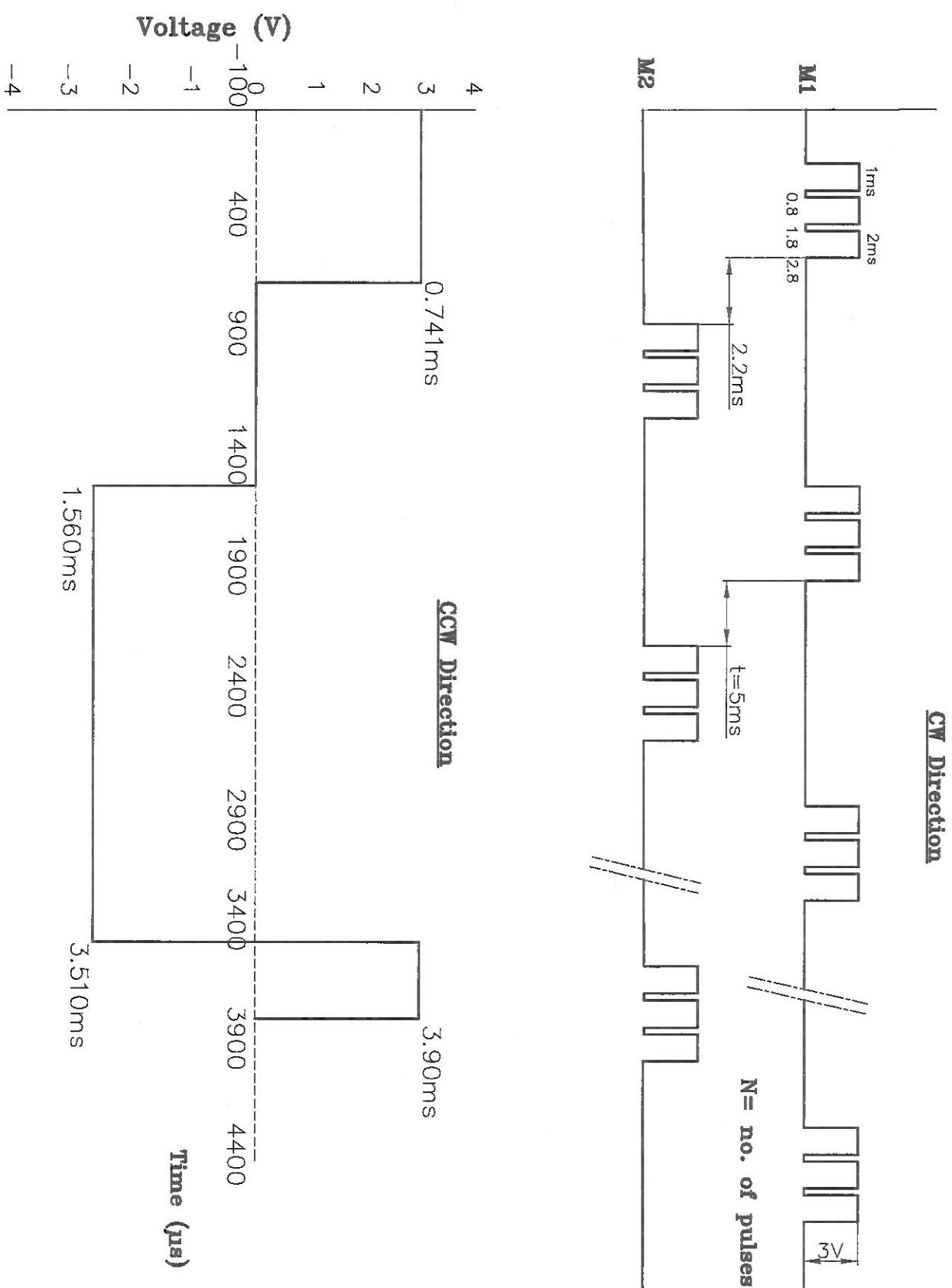
- 1) All dimensions are in mm.
- 2) Tolerances in microns.
- 3) Support pin to be provided while fixing hands
Hand fixing load to be applied gradually.
- 4) Motor parameters were tested using KEYSIGHT
N6705B DC Power Analyzer



TECHNICAL DATA FOR TITAN C3H MOTOR (3 HANDS-1° Bi-DIRECTIONAL) METAL



PULSE WAVE FORM



| Electrical Parameters | | | | |
|-----------------------|----------------------------------|-------|-----|-----|
| SL | Description | Units | CW | CCW |
| 01 | Pulse width @ 3V | ms | 2.8 | 3.9 |
| 02 | Duty cycle | % | 80 | 100 |
| 03 | Motor step frequency (max) | Hz | 128 | 64 |
| 04 | Voltage | V | 3 | 3 |
| 05 | Motor consumption (max) | μAs | 3.2 | 2.6 |
| 06 | Motor peak consumption @3V (max) | mA | 2.5 | 2 |
| 07 | Load torque | μNm | 48 | – |
| 08 | Motor positioning torque | uNm | 140 | 140 |
| 09 | Magnetic field (forward/reverse) | KA/m | 2.1 | 2.1 |
| 10 | Start voltage | V | 2.4 | 2.4 |
| 11 | Stop voltage | V | 3.7 | 3.7 |

[illegible]