# "ORANGE LINE" AC Contactors, DC Operated



■ ***NON-REVERSING CONTACTORS*** **UL File No. E42419, E44592 cUL listed**

| 1 Phase HP Rating (Full load ampere) | | 3 Phase HP Ratings (Full load ampere) | | | | Rated thermal current for non inductive / resistive load | Qty. of Auxiliary Contacts | Part Number | Fuji Type | Frame Size |
|---|---|---|---|---|---|---|---|---|---|---|
| 100-120V | 220-240V | 200-208V | 220-240V | 440-480V | 550-600V | | | | | |
| 1/3 (7.2) | 1 (8) | 2 (7.8) | 2 (6.8) | 5 (7.6) | 5 (6.1) | 11 | 1 | 4GC0A0#@@% | SC-03/G | 0A |
| 1/3 (7.2) | 1 (8) | 3 (11) | 3 (9.6) | 5 (7.6) | 5 (6.1) | 13 | 1 | 4GC0F0#@@% | SC-0/G | 0F |
| 1/3 (7.2) | 1 (8) | 3 (11) | 3 (9.6) | 5 (7.6) | 5 (6.1) | 13 | 2 | 4GC0G0#@@% | SC-05/G | 0G |
| 1 (16) | 2 (12) | 5 (17.5) | 5 (15.2) | 71/2 (11) | 71/2 (9) | 20 | 1 | 4GC0Q0#@@% | SC-4-0/G | 0Q |
| 1 (16) | 2 (12) | 5 (17.5) | 5 (15.2) | 10 (14) | 10 (11) | 20 | 1 | 4GC0R0#@@% | SC-4-1/G | 0R |
| 1 (16) | 2 (12) | 5 (17.5) | 5 (15.2) | 10 (14) | 10 (11) | 20 | 2 | 4GC0H0#@@% | SC-5-1/G | 0H |

■ ***REVERSING CONTACTORS*** **UL File No. E42419, E44592 cUL listed**

| 1 Phase HP Rating (Full load ampere) | | 3 Phase HP Ratings (Full load ampere) | | | | Rated thermal current for non inductive / resistive load | Qty. of Auxiliary Contacts | Part Number | Fuji Type | Frame Size |
|---|---|---|---|---|---|---|---|---|---|---|
| 100-120V | 220-240V | 200-208V | 220-240V | 440-480V | 550-600V | | | | | |
| 1/3 (7.2) | 1 (8) | 2 (7.8) | 2 (6.8) | 5 (7.6) | 5 (6.1) | 11 | 1 | 4GD0A0#@@% | SC-03RM/G | 0A |
| 1/3 (7.2) | 1 (8) | 3 (11) | 3 (9.6) | 5 (7.6) | 5 (6.1) | 13 | 1 | 4GD0F0#@@% | SC-0RM/G | 0F |
| 1/3 (7.2) | 1 (8) | 3 (11) | 3 (9.6) | 5 (7.6) | 5 (6.1) | 13 | 2 | 4GD0G0#@@% | SC-05RM/G | 0G |
| 1 (16) | 2 (12) | 5 (17.5) | 5 (15.2) | 71/2 (11) | 71/2 (9) | 20 | 1 | 4GD0Q0#@@% | SC-4-0RM/G | 0Q |
| 1 (16) | 2 (12) | 5 (17.5) | 5 (15.2) | 10 (14) | 10 (11) | 20 | 1 | 4GD0R0#@@% | SC-4-1RM/G | 0R |
| 1 (16) | 2 (12) | 5 (17.5) | 5 (15.2) | 10 (14) | 10 (11) | 20 | 2 | 4GD0H0#@@% | SC-5-1RM/G | 0H |

Note: The list above indicates the No. of auxiliary contacts provided per contactor.

**If larger contactors are required, please turn to page 23.**

## *EXPLANATION OF PART NUMBER SYSTEM*

**4 G C 0 A 0 # @ @ %**

- ***PRODUCT LINE***
  **4=Orange Line**
- ***OPERATION***
  **N=AC Coil**
  **G=DC Coil**
- ***DESCRIPTION***
  **C=Non-Reversing Contactor**
  **D=Reversing Contactor**
- ***FRAME SIZE***
- ***TERMINAL OPTION***
  **Blank: Standard**
  **Y: Optional, non removable terminal cover accessory.**
  **(Note: Y type not available for 0Q or 0R frame sizes)**
- ***QUANTITY OF AUX. CONTACTS***
  **10 : 1NO** **20 : 2NO**
  **01 : 1NC** **02 : 2NC**
  **11 : 1NO+1NC**
  **See above under the "Qty. of Aux Contacts" column or next page.**
- ***COIL VOLTAGE***
  **Select code from chart on next page**
- ***FRAME ENCLOSURE***
  **0=Open Frame, No Enclosure**

## AVAILABLE COILS

| Code Letter | DC Coil |
|---|---|
| T | 12V |
| M | 24V |
| N | 48V |
| 1 | 100V |
| R | 110V |
| 2 | 200V |
| S | 220V |

**If AC operation is required, please turn to page 5-6.**

### ■ COIL CHARACTERISTICS

| Frame Size | Power Consumption (VA) Inrush | Power Consumption (VA) Sealed | Pick-up Voltage (V) | Drop-out Voltage (V) | Operating Time (ms) Coil ON → Contact ON | Operating Time (ms) Coil OFF → Contact OFF |
|---|---|---|---|---|---|---|
| 0A | 7 | 7 | 11–15 | 3–6 | 43–47 | 22–24 |
| 0F | 7 | 7 | 11–15 | 3–6 | 43–47 | 22–24 |
| 0G | 7 | 7 | 10–15 | 3–7 | 43–47 | 22–24 |
| 0Q | 7 | 7 | 11–15 | 3–7 | 44–48 | 22–25 |
| 0R | 7 | 7 | 11–15 | 3–7 | 44–48 | 22–25 |
| 0H | 7 | 7 | 11–16 | 4–7 | 45–49 | 22–26 |

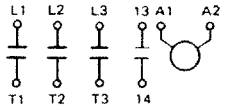
**This data is based on 24-26VDC coil, tested at 24VDC.**
**For additional coil data, please see page 50.**

## WIRING DIAGRAMS / AUXILIARY CONTACT INFORMATION

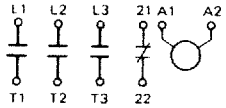
### ■ NON-REVERSING CONTACTORS

**(4GC0A0, 0F0, 0Q0 and 0R0)**

**1NO* (Standard)***

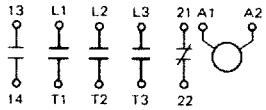



**1NC* (Option)**

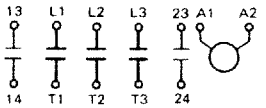



**(4GC0G0 and 4GC0H0)**

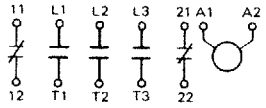
**1NO+1NC (Standard)****




**2NO** (Option)**

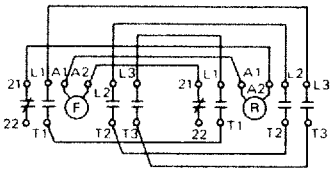



**2NC** (Option)**

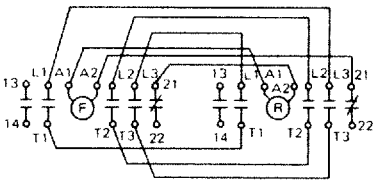



### ■ REVERSING CONTACTORS

**(4GD0A0, 0F0, 0Q0, 0R0) *****




**(4GD0G0 and 4GD0H0) *****




### ■ AUXILIARY CONTACT RATINGS

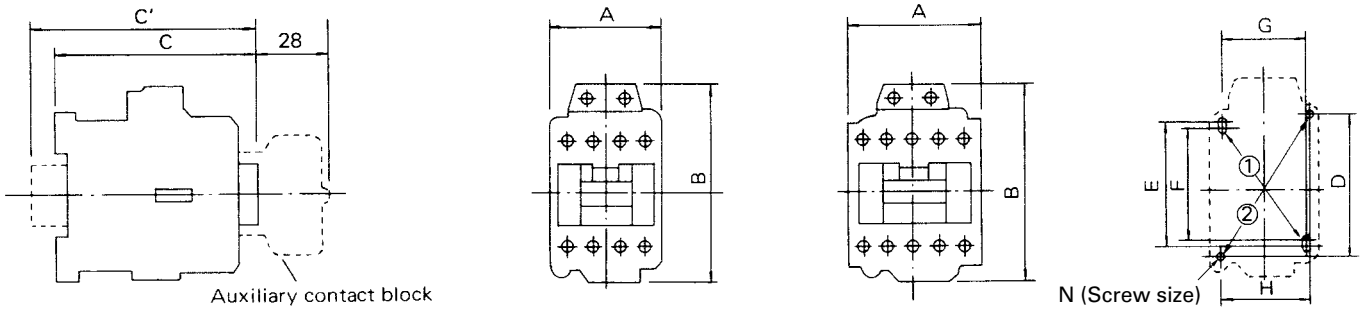
| Operating | Contact Rating Code Designation | Continuous Ampere Rating | Current–Make/Break (A) 110 to 120V | 220 to 240V | 440 to 480V | 550 to 600V |
|---|---|---|---|---|---|---|
| AC | A600 | 10 | 60/6 | 30/3 | 15/1.5 | 12/1.2 |
| DC | Q300 | 10 | 120V | | 240V | |
| | | | 0.55/0.55 | | 0.27/0.27 | |

* The 0A, 0F, 0Q & 0R frames offer 1 Aux. contact, NO standard. However, NC is available as an option.
** The 0G & 0H frames offer 2 Aux. contacts, 1NO + 1NC standard. However, 2NO or 2NC is available as an option.
*** Reversing contactors are NOT pre-wired with an electrical interlock unless requested when ordered.
Reversing contactors without at least 1NC Aux. contact can not be electrically interlocked.

# "ORANGE LINE" Dimensions

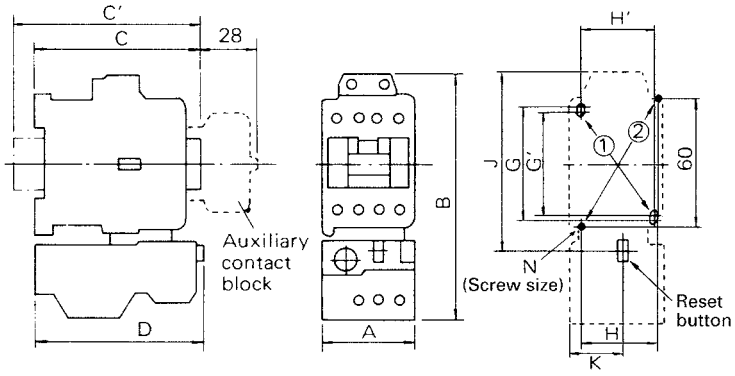
## ■ *NON-REVERSING CONTACTORS/OPEN TYPE* Approximate Dimensions, mm

***FIG.1*** **(4NC0A0 through 4NC0H0)** **4NC0A0, 0F0, 0Q0, 0R0** **4NC0G0, 0H0**




| U.S. CAT. No. | Fuji Type | Fig. No. | Dimensions, mm | | | | | | | | | | Net Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | C | C' | D | E | F | G | H | N | |
| 4NC0A0 | SC-03 | 1 | 43 | 80 | 80 | 90 | 60 | 52 | 48 | 34 | 35 | 2-M4 | 0.32 |
| 4NC0F0 | SC-0 | 1 | 43 | 80 | 80 | 90 | 60 | 52 | 48 | 34 | 35 | 2-M4 | 0.32 |
| 4NC0G0 | SC-05 | 1 | 53 | 80 | 80 | 90 | 60 | 52 | 48 | 34 | 35 | 2-M4 | 0.34 |
| 4NC0Q0 | SC-4-0 | 1 | 53 | 80 | 81 | 91 | 60 | 52 | 48 | 34 | 35 | 2-M4 | 0.36 |
| 4NC0R0 | SC-4-1 | 1 | 53 | 80 | 81 | 91 | 60 | 52 | 48 | 34 | 35 | 2-M4 | 0.36 |
| 4NC0H0 | SC-5-1 | 1 | 64 | 80 | 81 | 91 | 60 | 60 | 56 | 54 | 50 | 2-M4 | 0.38 |
| 4GC0A0 | SC-03/G | 1 | 43 | 80 | 110 | 120 | 60 | 52 | 48 | 34 | 35 | 2-M4 | 0.55 |
| 4GC0F0 | SC-0/G | 1 | 43 | 80 | 110 | 120 | 60 | 52 | 48 | 34 | 35 | 2-M4 | 0.55 |
| 4GC0G0 | SC-05/G | 1 | 53 | 80 | 110 | 120 | 60 | 52 | 48 | 34 | 35 | 2-M4 | 0.58 |
| 4GC0Q0 | SC-4-0/G | 1 | 53 | 80 | 111 | 121 | 60 | 52 | 48 | 34 | 35 | 2-M4 | 0.6 |
| 4GC0R0 | SC-4-1/G | 1 | 53 | 80 | 111 | 121 | 60 | 52 | 48 | 34 | 35 | 2-M4 | 0.6 |
| 4GC0H0 | SC-5-1/G | 1 | 64 | 80 | 111 | 121 | 60 | 60 | 56 | 54 | 50 | 2-M4 | 0.62 |

***FIG.2*** **(4NW0A0 through 4NW0H0)**

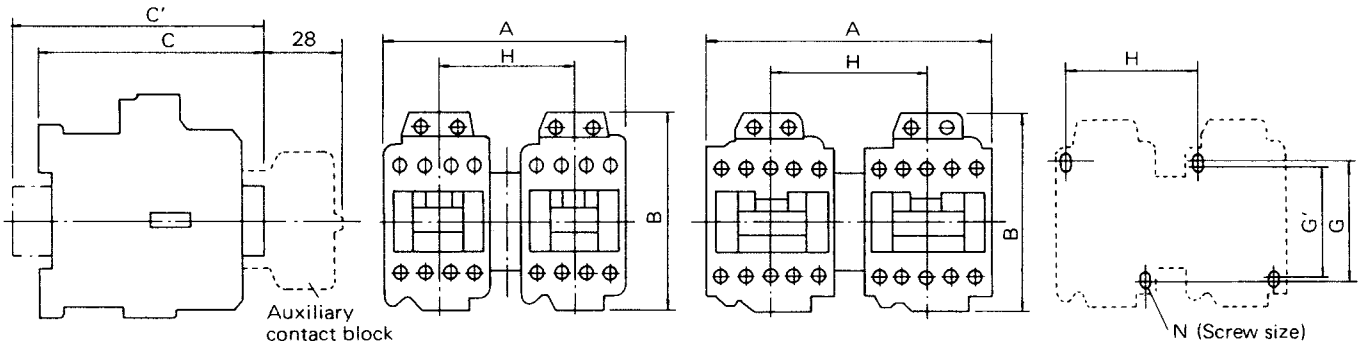



| U.S. CAT. No. | Fuji Type | Fig. No. | Dimensions, mm | | | | | | | | | | | | | Net Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | C | C' | D | F | G | G' | H | H' | J | K | N | |
| 4NW0A0 | SW-03/2E | 2 | 44 | 120 | 80 | 90 | 81 | 60 | 52 | 48 | 35 | 34 | 90 | 26.5 | 2-M4 | 0.43 |
| 4NW0F0 | SW-0/2E | 2 | 44 | 120 | 80 | 90 | 81 | 60 | 52 | 48 | 35 | 34 | 90 | 26.5 | 2-M4 | 0.43 |
| 4NW0G0 | SW-05/2E | 2 | 53 | 120 | 80 | 90 | 81 | 60 | 52 | 48 | 35 | 34 | 90 | 35.5 | 2-M4 | 0.45 |
| 4NW0Q0 | SW-4-0/2E | 2 | 53 | 126 | 81 | 91 | 81 | 60 | 52 | 48 | 35 | 34 | 93 | 26.5 | 2-M4 | 0.47 |
| 4NW0R0 | SW-4-1/2E | 2 | 53 | 126 | 81 | 91 | 81 | 60 | 52 | 48 | 35 | 34 | 93 | 26.5 | 2-M4 | 0.47 |
| 4NW0H0 | SW-5-1/2E | 2 | 64 | 126 | 81 | 91 | 81 | 60 | 60 | 56 | 50 | 54 | 93 | 37.5 | 2-M4 | 0.5 |
| 4GW0A0 | SW-03/G 2E | 2 | 44 | 120 | 110 | 120 | 81 | 60 | 52 | 48 | 35 | 34 | 90 | 26.5 | 2-M4 | 0.66 |
| 4GW0F0 | SW-0/G 2E | 2 | 44 | 120 | 110 | 120 | 81 | 60 | 52 | 48 | 35 | 34 | 90 | 26.5 | 2-M4 | 0.66 |
| 4GW0G0 | SW-05/G 2E | 2 | 53 | 120 | 110 | 120 | 81 | 60 | 52 | 48 | 35 | 34 | 90 | 35.5 | 2-M4 | 0.69 |
| 4GW0Q0 | SW-4-0/G 2E | 2 | 53 | 126 | 111 | 121 | 81 | 60 | 52 | 48 | 35 | 34 | 93 | 26.5 | 2-M4 | 0.72 |
| 4GW0R0 | SW-4-1/G 2E | 2 | 53 | 126 | 111 | 121 | 81 | 60 | 52 | 48 | 35 | 34 | 93 | 26.5 | 2-M4 | 0.72 |
| 4GW0H0 | SW-5-1/G 2E | 2 | 64 | 126 | 111 | 121 | 81 | 60 | 60 | 56 | 50 | 54 | 93 | 37.5 | 2-M4 | 0.74 |

# "ORANGE LINE" Dimensions

## ■ *REVERSING CONTACTORS/OPEN TYPE* Approximate Dimensions, mm

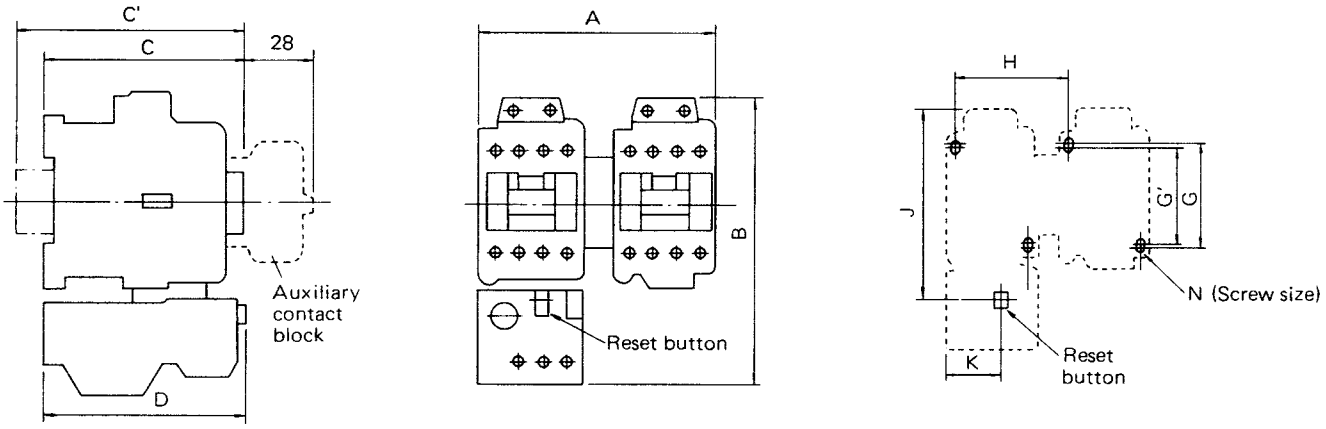
***FIG.3*** **(4ND0A0 through 4ND0H0)** **4ND0A0, 0F0, 0Q0, 0R0** **4ND0G0, 0H0**




| U.S. CAT. No. | Fuji Type | Fig. No. | Dimensions, mm A | B | C | C' | G | G' | H | N | Net Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4ND0A0 | SC-03RM | 3 | 99 | 80 | 80 | 90 | 52 | 48 | 56 | 4-M4 | 0.68 |
| 4ND0F0 | SC-0RM | 3 | 99 | 80 | 80 | 90 | 52 | 48 | 56 | 4-M4 | 0.68 |
| 4ND0G0 | SC-05RM | 3 | 119 | 80 | 80 | 90 | 52 | 48 | 66 | 4-M4 | 0.72 |
| 4ND0Q0 | SC-4-0RM | 3 | 119 | 80 | 81 | 91 | 52 | 48 | 66 | 4-M4 | 0.76 |
| 4ND0R0 | SC-4-1RM | 3 | 119 | 80 | 81 | 91 | 52 | 48 | 66 | 4-M4 | 0.76 |
| 4ND0H0 | SC-5-1RM | 3 | 141 | 80 | 81 | 91 | 60 | 56 | 77 | 4-M4 | 0.8 |
| 4GD0A0 | SC-03RM/G | 3 | 99 | 80 | 110 | 120 | 52 | 48 | 56 | 4-M4 | 1.14 |
| 4GD0F0 | SC-0RM/G | 3 | 99 | 80 | 110 | 120 | 52 | 48 | 56 | 4-M4 | 1.14 |
| 4GD0G0 | SC-05RM/G | 3 | 119 | 80 | 110 | 120 | 52 | 48 | 66 | 4-M4 | 1.20 |
| 4GD0Q0 | SC-4-0RM/G | 3 | 119 | 80 | 111 | 121 | 52 | 48 | 66 | 4-M4 | 1.24 |
| 4GD0R0 | SC-4-1RM/G | 3 | 119 | 80 | 111 | 121 | 52 | 48 | 66 | 4-M4 | 1.24 |
| 4GD0H0 | SC-5-1RM/G | 3 | 141 | 80 | 111 | 121 | 60 | 56 | 77 | 4-M4 | 1.28 |

## ■ *REVERSING MOTOR STARTERS/OPEN TYPE* Approximate Dimensions, mm

***FIG.4*** **(4NX0A0 through 4NX0H0)**




| U.S. CAT. No. | Fuji Type | Fig. No. | Dimensions, mm A | B | C | C' | D | G | G' | H | J | K | N | Net Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4NX0A0 | SW-03RM/2E | 4 | 100 | 120 | 80 | 90 | 81 | 52 | 48 | 56 | 90 | 26.5 | 4-M4 | 0.79 |
| 4NX0F0 | SW-0RM/2E | 4 | 100 | 120 | 80 | 90 | 81 | 52 | 48 | 56 | 90 | 26.5 | 4-M4 | 0.79 |
| 4NX0G0 | SW-05RM/2E | 4 | 119 | 120 | 80 | 90 | 81 | 52 | 48 | 66 | 90 | 35.5 | 4-M4 | 0.83 |
| 4NX0Q0 | SW-4-0RM/2E | 4 | 119 | 126 | 81 | 91 | 81 | 52 | 48 | 66 | 93 | 26.5 | 4-M4 | 0.87 |
| 4NX0R0 | SW-4-1RM/2E | 4 | 119 | 126 | 81 | 91 | 81 | 52 | 48 | 66 | 93 | 26.5 | 4-M4 | 0.87 |
| 4NX0H0 | SW-5-1RM/2E | 4 | 141 | 126 | 81 | 91 | 81 | 60 | 56 | 77 | 93 | 37.5 | 4-M4 | 0.92 |
| 4GX0A0 | SW-03RM/G 2E | 4 | 100 | 120 | 110 | 120 | 81 | 52 | 48 | 56 | 90 | 26.5 | 4-M4 | 1.24 |
| 4GX0F0 | SW-0RM/G 2E | 4 | 100 | 120 | 110 | 120 | 81 | 52 | 48 | 56 | 90 | 26.5 | 4-M4 | 1.24 |
| 4GX0G0 | SW-05RM/G 2E | 4 | 119 | 120 | 110 | 120 | 81 | 52 | 48 | 66 | 90 | 35.5 | 4-M4 | 1.30 |
| 4GX0Q0 | SW-4-0RM/G 2E | 4 | 119 | 120 | 111 | 121 | 81 | 52 | 48 | 66 | 93 | 26.5 | 4-M4 | 1.40 |
| 4GX0R0 | SW-4-1RM/G 2E | 4 | 119 | 120 | 111 | 121 | 81 | 52 | 48 | 66 | 93 | 26.5 | 4-M4 | 1.40 |
| 4GX0H0 | SW-5-1RM/G 2E | 4 | 141 | 120 | 111 | 121 | 81 | 60 | 56 | 77 | 93 | 37.5 | 4-M4 | 1.42 |