

| | | | |
|--|--|---------------------------|-------------|
| MODEL NUMBER | HHI1.5-36-143T | | |
| HORSEPOWER | 1.5 | | |
| RPM / POLES | 3600 / 2 | | |
| VOLTAGE / PHASE | 230 / 460 V / 3 | | |
| FRAME | 143T | | |
| ENCLOSURE / DEGREE OF PROTECTION | TEFC / IP55 | | |
| FREQUENCY | 60 HZ | | |
| FULL LOAD SPEED | 3500 RPM | | |
| SERVICE FACTOR | 1.15 SF at 40° C / 1.0 SF at 65° C | | |
| INSULATION CLASS | F Class N Varnish | | |
| FULL LOAD AMPS; 230 / 460 | 4.0 / 2.0 A Usable On 208 V At 4.4 A | | |
| LOCKED ROTOR CURRENT (% Full Load) | 1000 / 1000 % | | |
| NEMA CODE LETTER | M | | |
| EFFICIENCY / POWER FACTOR | <u>LOAD</u> | <u>EFF.</u> | <u>P.F.</u> |
| | 100 % | 84.0 % | 84.0 % |
| | 75 % | 84.2 % | 70.0 % |
| | 50 % | 81.5 % | 54.0 % |
| DUTY CYCLE | S1 / Continuous | | |
| TORQUE | <u>FULL LOAD</u> | <u>LRT</u> | <u>BDT</u> |
| | 2.2 lb.ft. | 185 % | 260 % |
| NEMA DESIGN | B | | |
| MOMENT OF INERTIA | <u>LOAD (Max.)</u> | <u>MOTOR</u> | |
| | 3.790 lb.ft. ² | 0.033 lb.ft. ² | |
| SOUND PRESSURE LEVEL (No Load 1 M From Motor) | 72 dB(A) | | |
| NUMBER OF STARTS (Hot / Cold) | 2 Hot / 3 Cold | | |
| MAX. AMBIENT TEMPERATURE | 40° C at 1.15 SF / 65° C at 1.0 SF | | |
| MAX. ELEVATION | 3300 Ft. Above Sea Level | | |
| TEMPERATURE RISE (At Full Load) | 80° C | | |
| DRIVE-END BEARING | 6205ZZC3 | | |
| OPPOSITE DRIVE-END BEARING | 6204ZZC3 | | |
| GREASE TYPE | Mobil Polyrex EM | | |
| MOUNTING | F1 (F2 Suitable), W6, W8, B3, V5, V6 | | |
| ROTATION | Bi-Directional | | |
| APPROXIMATE WEIGHT | 53 lbs. | | |
| AREA CLASSIFICATION | Class I, Division 2, Groups A, B, C, D | | |
| INVERTER RATING | 10:1 CT / 20:1 VT | | |
| SPECIFICATION - In Accordance With | NEMA, CSA | | |



CC 038A





TEFC

THREE PHASE INDUCTION MOTOR

TYPE

LP,JP

CAST IRON FRAME

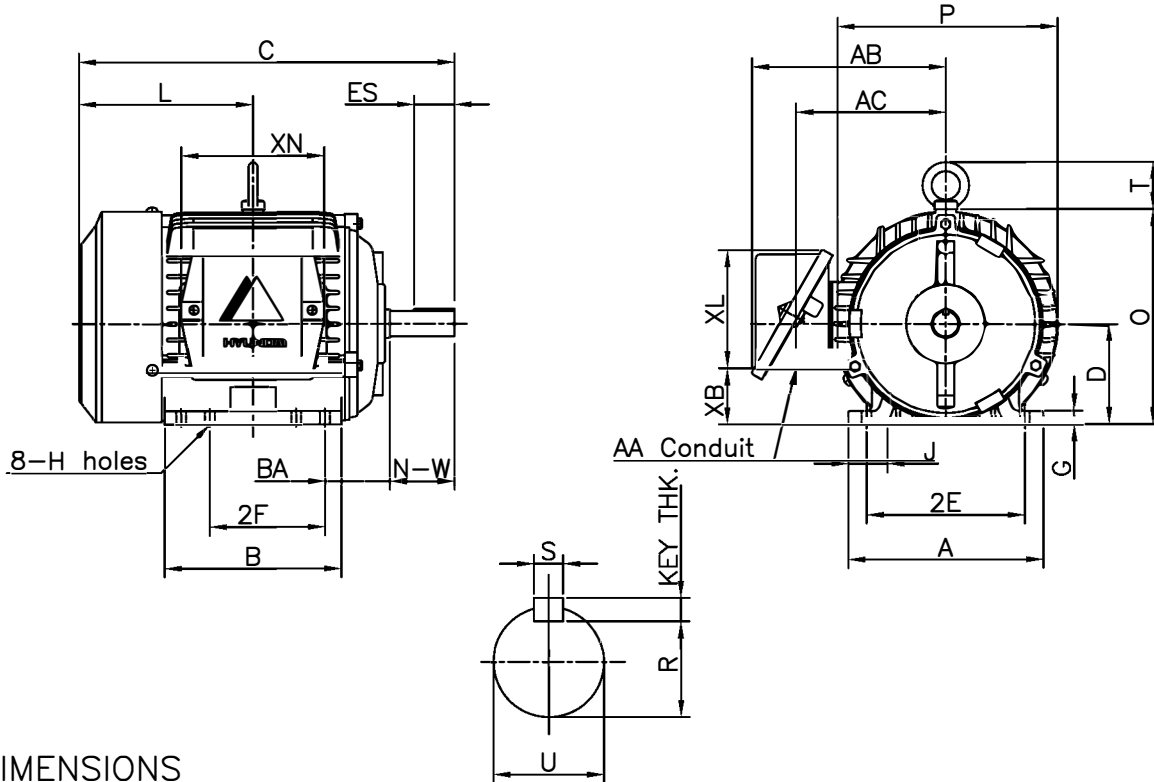
FRAME SIZE

OUTPUT(HP)

POLES

Hz

TIME RATING



DIMENSIONS

| MOUNTING | | | | | | | | | CONDUIT BOX | | | | | | APPROX. WGT.(LB) |
|----------|------|------|------|---|---|------|------|------|-------------|------|------|------|------|------|------------------|
| A | B | 2E | 2F | - | - | G | J | H | AA | AB | AC | XB | XL | XN | |
| 6.78 | 6.15 | 5.50 | 4.00 | - | - | 0.47 | 1.36 | 0.34 | 0.75 | 6.73 | 5.21 | 1.95 | 4.10 | 4.96 | 53 |

| OVERALL | | | | | | | SHAFT | | | KEY THK. | BEARING | | | |
|---------|-------|------|------|------|------|------|-------|------|--------|----------|---------|-----------|----------------|----------|
| BA | C | D | L | O | P | T | U | N-W | KEYWAY | | | DRIVE END | OPP. DRIVE END | |
| | | | | | | | | | R | ES | S | | | |
| 2.25 | 13.05 | 3.50 | 6.05 | 7.46 | 7.64 | 1.63 | 0.875 | 2.25 | 0.771 | 1.41 | 0.188 | 0.188 | 6205ZZC3 | 6204ZZC3 |

NOTE

- 1.Dimension "D" tolerance : +0.00inch - 0.03inch
- 2.Dimension "U" tolerance : +0.000inch - 0.0005inch
- 3.Dimension "R" tolerance : +0.000inch - 0.015inch

| | | | | | | |
|---------|---------|----------|------------|---------|------------|--------------------|
| APPD BY | J.H.KIM | UNIT | INCH | SUBJECT | NEMA 143T | CAD PROJ \ FILE |
| CHKD BY | N.D.LEE | SCALE | 1/8 | | | SCALE-NEMA\A1101AA |
| CHKD BY | K.S.LEE | PROJEC'N | 3rd Angle | TITLE | OUTLINE | |
| DSND BY | S.W.SEO | DATE | 2010.12.20 | | | |
| | | | | REF. NO | 350A1101AA | Sheet No. of |
| | | | | DWG NO | 350A1101AA | Revision No. 0 |



PERFORMANCE CURVE

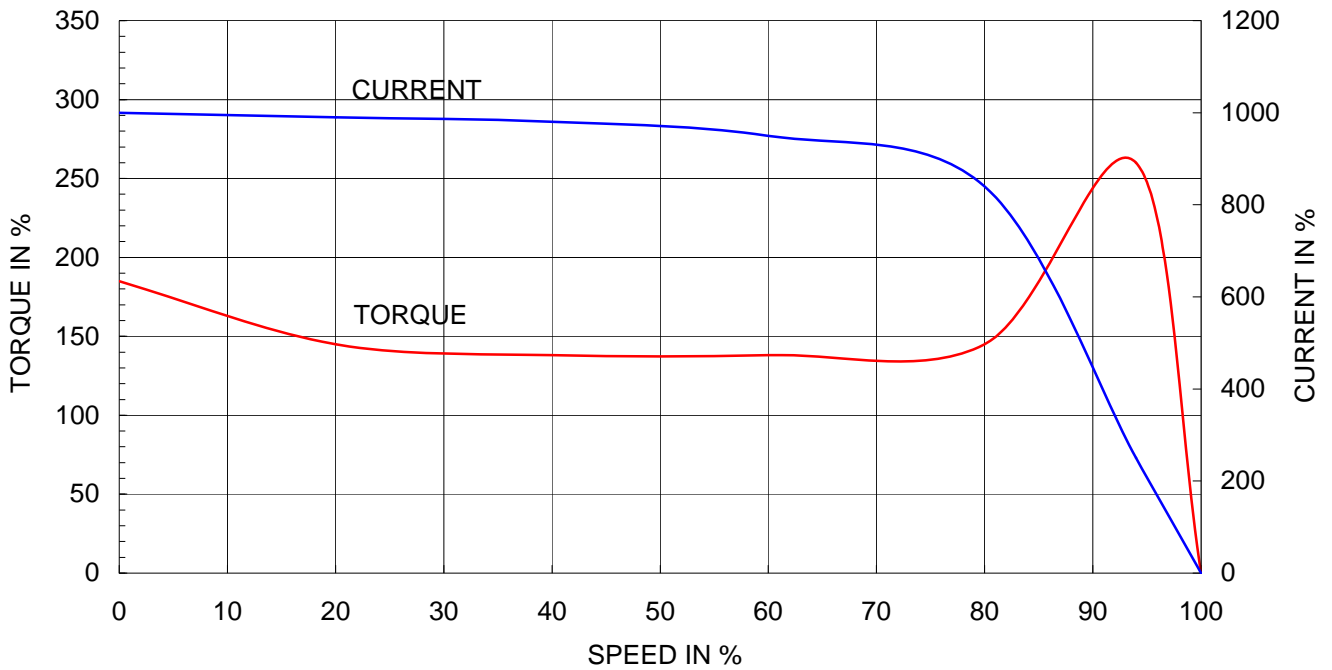
CURVE NO.

P-PLP143SR1

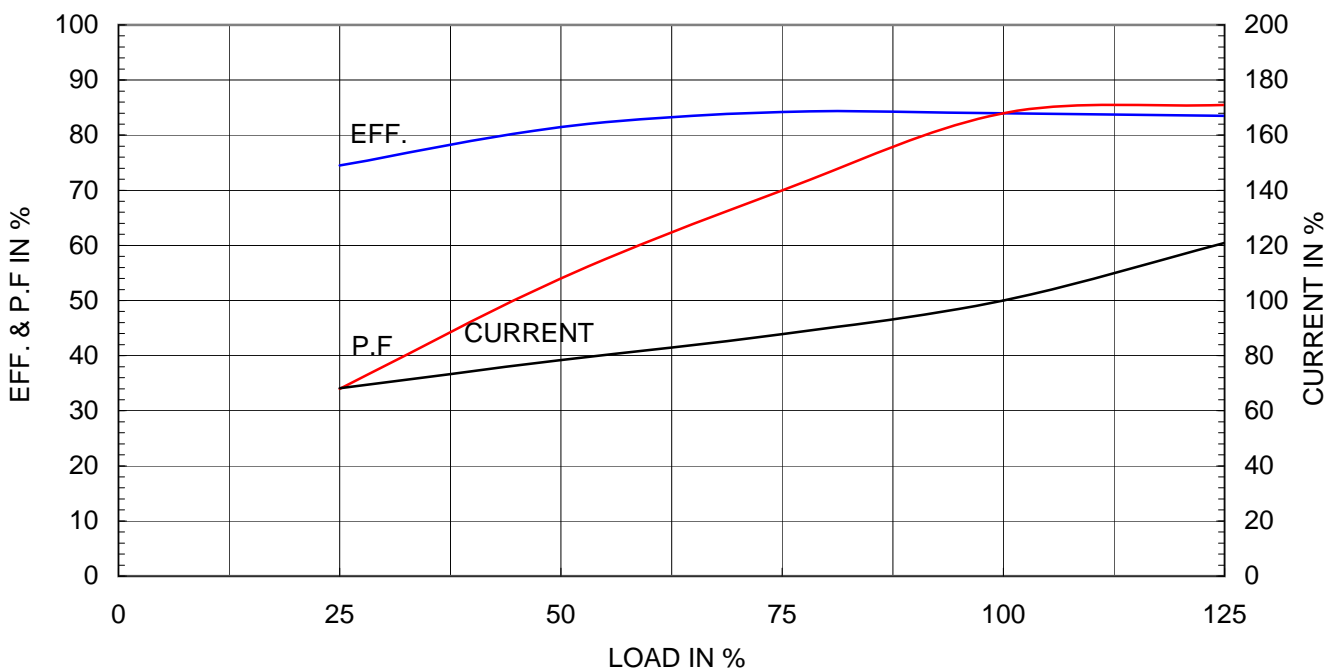
| | |
|-----------------------------|----------------------------|
| Type | : PLP |
| Full Load Torque | : 2.2 lb.ft |
| Motor moment of Inertia (J) | : 0.033 lb.ft ² |
| Load moment of Inertia (J) | : 3.790 lb.ft ² |

| | | | |
|-------------------|-------------|------------|------|
| 1.1 kW | 1.5 HP | 60 Hz | |
| 2 P | Rated Speed | : 3500 RPM | |
| Rated Voltage | 575V | 460V | 230V |
| Full Load Current | 1.6A | 2.0A | 4.0A |

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



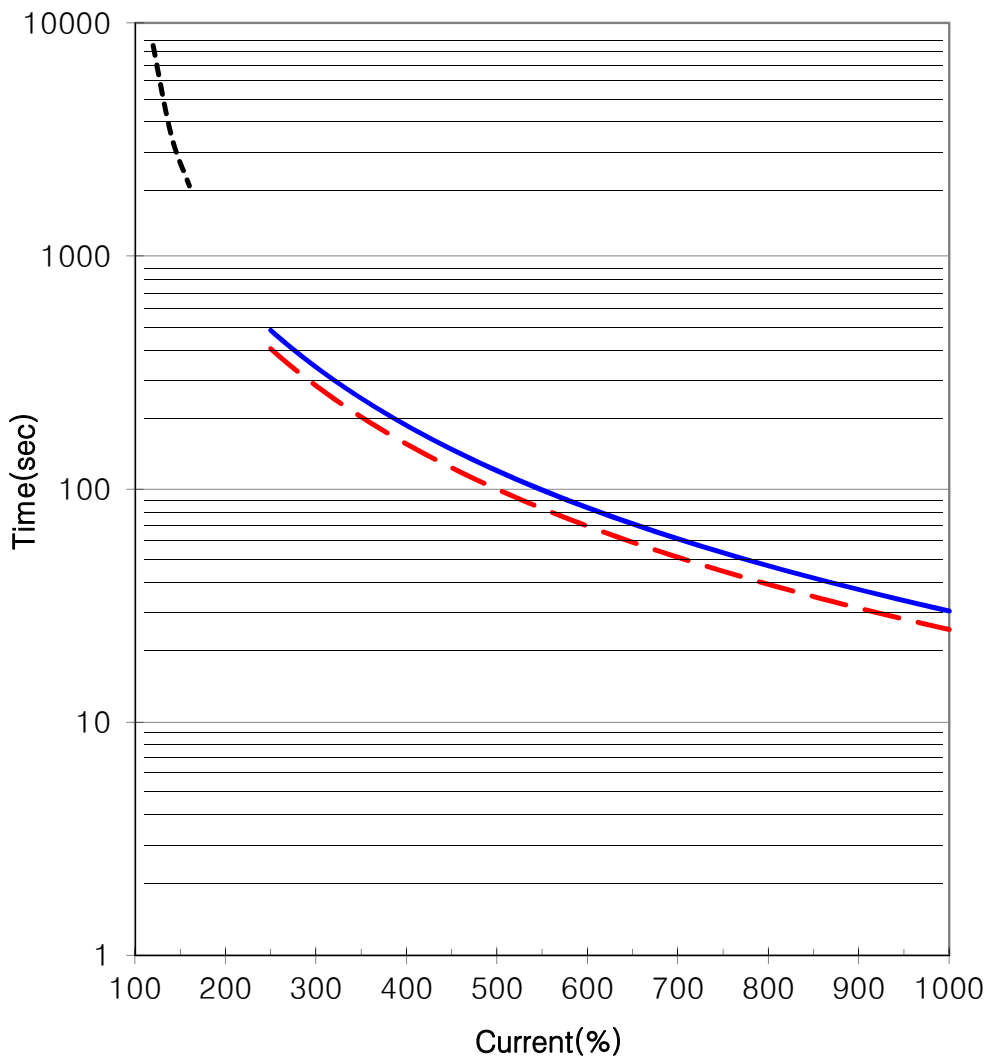


THERMAL LIMIT & TIME CURRENT CURVE

CURVE NO.
T-PLP1.5-36-143T

| | | |
|--------------------|----------------|--------|
| Type : | PLP1.5-36-143T | |
| FULL LOAD TORQUE : | 2.2 | lb.ft |
| J OF LOAD : | - | lb.ft² |
| J OF MOTOR : | 0.0 | lb.ft² |

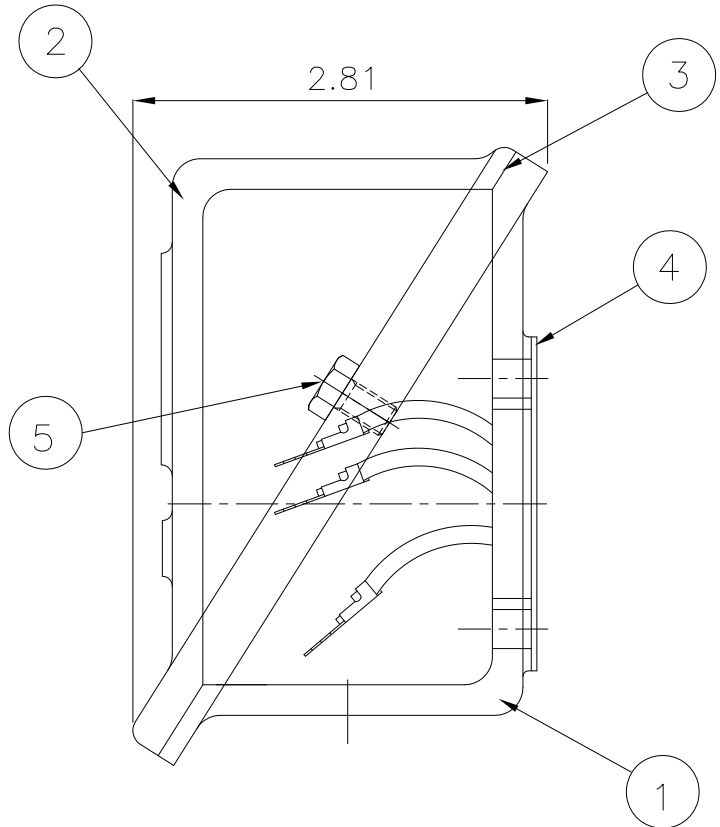
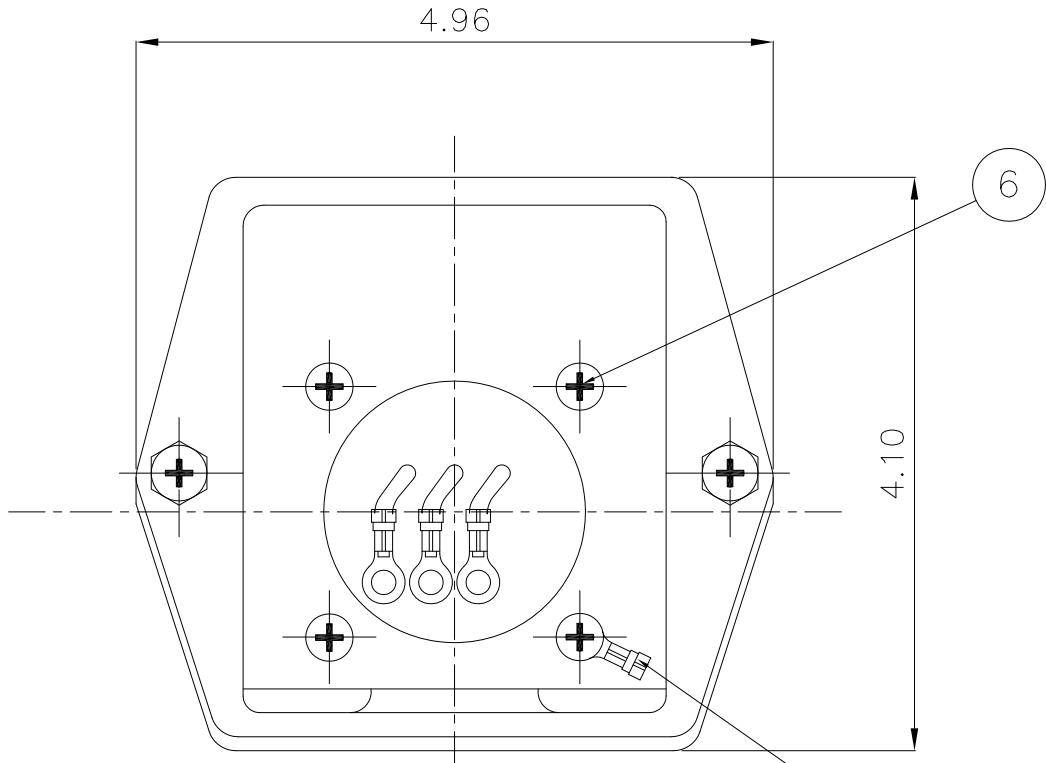
| | | | | | |
|---------------|----|-------|----------|----|----|
| 1.5 | HP | 2 | P | 60 | Hz |
| RATED SPEED : | | | 3500 rpm | | |
| VOLTAGE | | 460 V | 575 V | | |
| RATED CURRENT | | 2.0A | 1.6A | | |



— THERMAL LIMIT CURVE AT COLD CONDITION
- - THERMAL LIMIT CURVE AT HOT CONDITION

| STARTING TIME | SAFE STALL TIME |
|------------------------------------|---------------------------|
| - at rated voltage starting | 25 sec. at Hot condition |
| - at 80% of rated voltage starting | 30 sec. at Cold condition |

THIS DRAWING IS PROPRIETARY TO HHI. NO PART OF THIS DRAWING MAY BE REPRODUCED WITHOUT THE PERMISSION OF HHI.



| PT | DESCRIPTION | MATERIAL | DIMENSION | Q'TY |
|----|---------------------|----------|------------|------|
| 1 | CONDUIT BOX | FC15 | -- | 1 |
| 2 | CONDUIT BOX COVER | FC15 | -- | 1 |
| 3 | O-RING / COVER | NBR | -- | 1 |
| 4 | BOX GASKET | NBR | -- | 1 |
| 5 | COVER+BOX HEX BOLT | S45C | M5 X L15 | 4 |
| 6 | BOX+FRAME HEX BOLT | S45C | M5 X L15 | 4 |
| 7 | GROUND TERMINAL LUG | CU | M5X5.5mmSQ | 1 |

| Q'TY | DESCRIPTION | MATERIAL | DIMENSION | WEIGHT | PART NO. | REMARK | NO. |
|---------|-------------|-------------|------------|---------------------------------|----------|---------------|-----|
| APPD BY | B.M.YOO | UNIT | INCH | SUBJECT | | CAD PROJ FILE | |
| CHKD BY | S.W.SEO | SCALE | 1/0.46 | NEMA 140 | | IP 54,55,56 | |
| CHKD BY | J.S.JEONG | PROJEC'N | 3rd Angle | TITLE | | | |
| DSND BY | C.S.KO | DATE | 2008.01.18 | 3 LEADS CONDUIT BOX ASSEMBLY | | | |
| REF. NO | | 227B1535AA2 | | Sheet No. | | of | |
| DWG NO | | 227B1535AA2 | | Revision No. | | 1 | |

| REV | DATE | CONTENTS | REVD BY | CHKD BY | CHKD BY | APPD BY |
|-----|------|----------|---------|---------|---------|---------|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |