

| | | | |
|--|--|---------------------------|-------------|
| MODEL NUMBER | HHI25-18-284TS | | |
| HORSEPOWER | 25 | | |
| RPM / POLES | 1800 / 4 | | |
| VOLTAGE / PHASE | 230 / 460 V / 3 | | |
| FRAME | 284TS | | |
| ENCLOSURE / DEGREE OF PROTECTION | TEFC / IP55 | | |
| FREQUENCY | 60 HZ | | |
| FULL LOAD SPEED | 1775 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 | 60.6 / 30.3 A Usable On 208 V At 67.0 A | | |
| LOCKED ROTOR CURRENT (% Full Load) | 680 / 680 % | | |
| NEMA CODE LETTER | H | | |
| EFFICIENCY / POWER FACTOR | <u>LOAD</u> | <u>EFF.</u> | <u>P.F.</u> |
| | 100 % | 93.6 % | 82.0 % |
| | 75 % | 93.8 % | 79.5 % |
| | 50 % | 92.9 % | 73.0 % |
| DUTY CYCLE | S1 / Continuous | | |
| TORQUE | <u>FULL LOAD</u> | <u>LRT</u> | <u>BDT</u> |
| | 73.4 lb.ft. | 170 % | 220 % |
| NEMA DESIGN | B | | |
| MOMENT OF INERTIA | <u>LOAD (Max.)</u> | <u>MOTOR</u> | |
| | 327.481 lb.ft. ² | 3.940 lb.ft. ² | |
| SOUND PRESSURE LEVEL (No Load 1 M From Motor) | 75 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 | 6310ZC3 | | |
| OPPOSITE DRIVE-END BEARING | 6310ZC3 | | |
| GREASE TYPE | Mobil Polyrex EM | | |
| MOUNTING | F1 (F2 Suitable), W6, W8, B3, V5, V6 | | |
| ROTATION | Bi-Directional | | |
| APPROXIMATE WEIGHT | 380 lbs. | | |
| AREA CLASSIFICATION | Class I, Division 2, Groups A, B, C, D | | |
| INVERTER RATING | 10:1 CT / 20:1 VT - Meets NEMA MG1 Part 31 | | |
| SPECIFICATION - In Accordance With | NEMA, CSA | | |



CC 038A





TEFC

THREE PHASE INDUCTION MOTOR

TYPE

LP, JP

CAST IRON FRAME

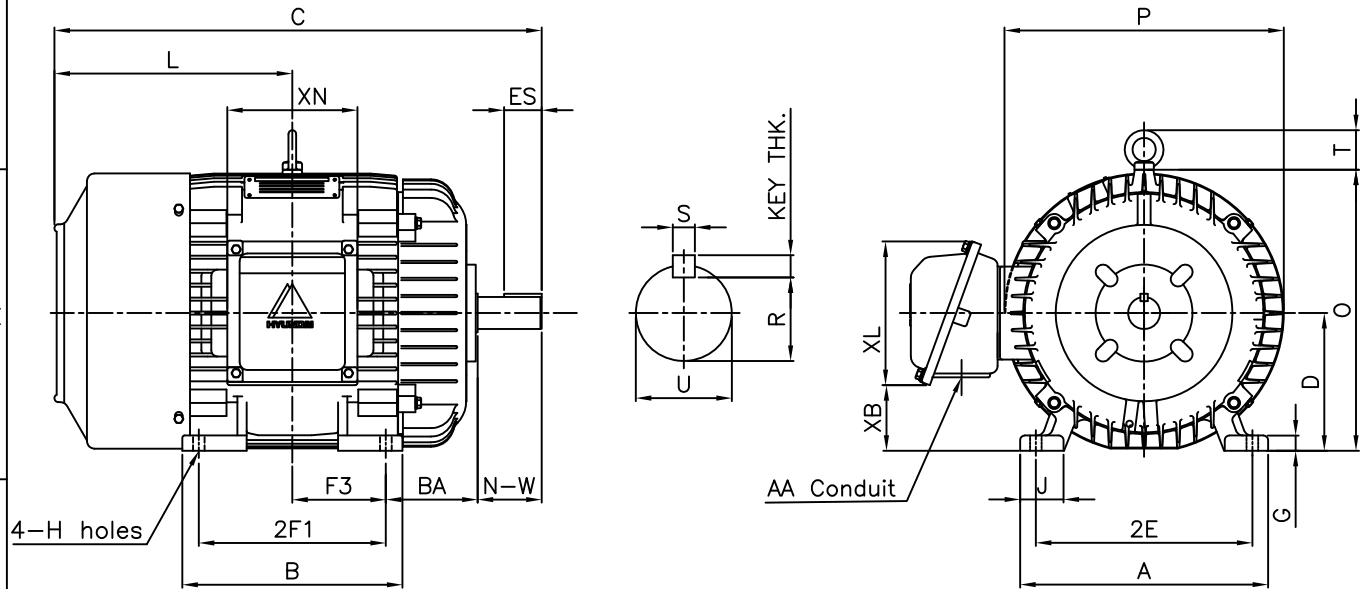
FRAME SIZE

OUTPUT(HP)

POLES

Hz

TIME RATING



DIMENSIONS

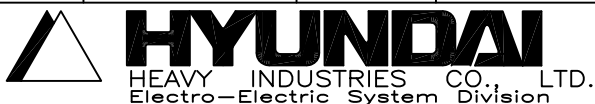
| M O U N T I N G | | | | | | | | | C O N D U I T B O X | | | | | | APPROX. WGT.(LB) |
|-----------------|-------|-------|------|-----|------|------|------|------|---------------------|-------|------|------|------|------|------------------|
| A | B | 2E | 2F1 | 2F2 | F3 | G | J | H | AA | AB | AC | XB | XL | XN | 284T |
| 12.60 | 11.18 | 11.00 | 9.50 | - | 4.75 | 0.78 | 2.20 | 0.53 | 1.50 | 12.43 | 9.64 | 3.42 | 7.56 | 6.61 | 380 |

| O V E R A L L | | | | | | | S H A F T | | | | | KEY THK. | B E A R I N G | |
|---------------|-------|------|-------|-------|-------|------|-----------|------|--------|------|-------|----------|---------------|----------------|
| BA | C | D | L | O | P | T | U | N-W | KEYWAY | | | | DRIVE END | OPP. DRIVE END |
| | | | | | | | | | R | ES | S | | | |
| 4.75 | 24.84 | 7.00 | 12.09 | 14.28 | 14.19 | 2.01 | 1.625 | 3.25 | 1.416 | 1.91 | 0.375 | 0.375 | 6310ZC3 | 6310ZC3 |

NOTE

- 1.Dimension "D" tolerance : +0.00inch - 0.03inch
- 2.Dimension "U" tolerance : +0.000inch - 0.001inch
- 3.Dimension "R" tolerance : +0.000inch - 0.015inch

| | | | | | | | | | |
|---------|------------|----------|------------|---------|------------|-----------------|------------------|--------------|----|
| APPD BY | J. H. KIM | UNIT | INCH | SUBJECT | NEMA 284TS | CAD PROJ \ FILE | XSMOUTIN\A1109BA | | |
| CHKD BY | K. S. LEE | SCALE | 1/10 | | | TITLE | OUTLINE | | |
| CHKD BY | | PROJEC'N | 3rd Angle | REF. NO | A1109BA | | | Sheet No. | of |
| DSND BY | KIM IN KYU | DATE | 2010.12.31 | DWG NO | 350A1109BA | | | Revision No. | 0 |





PERFORMANCE CURVE

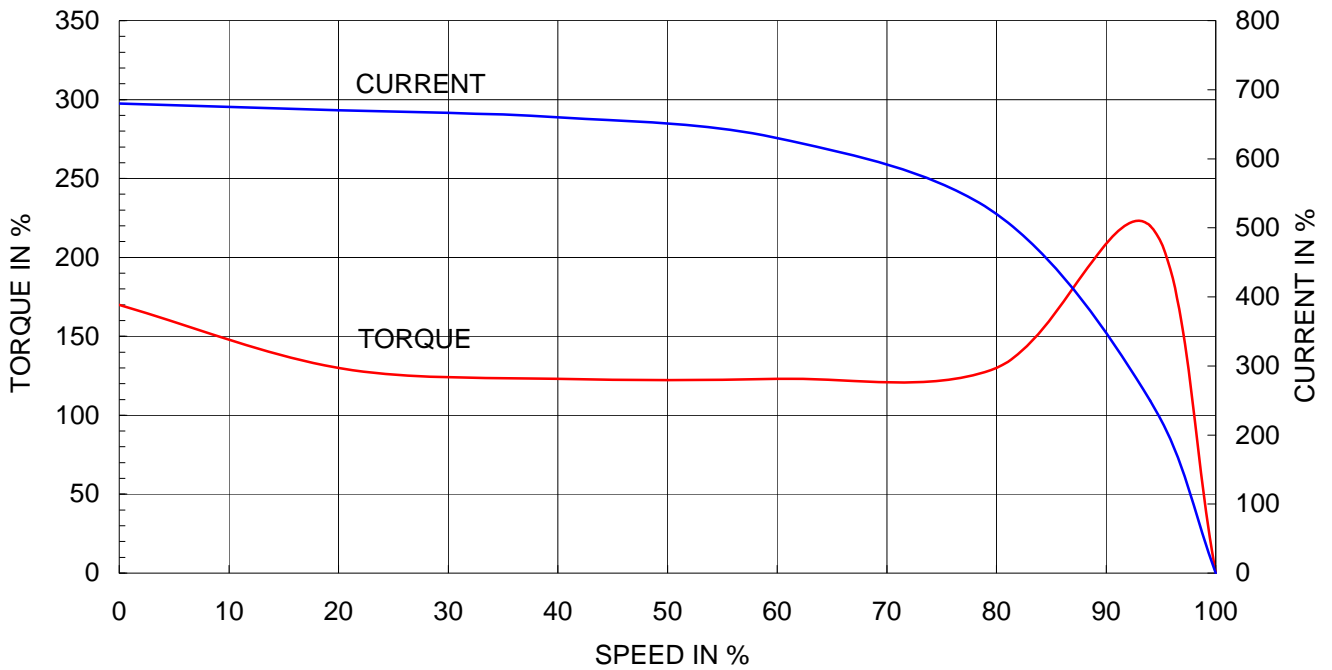
CURVE NO.

P-PLP284SR2

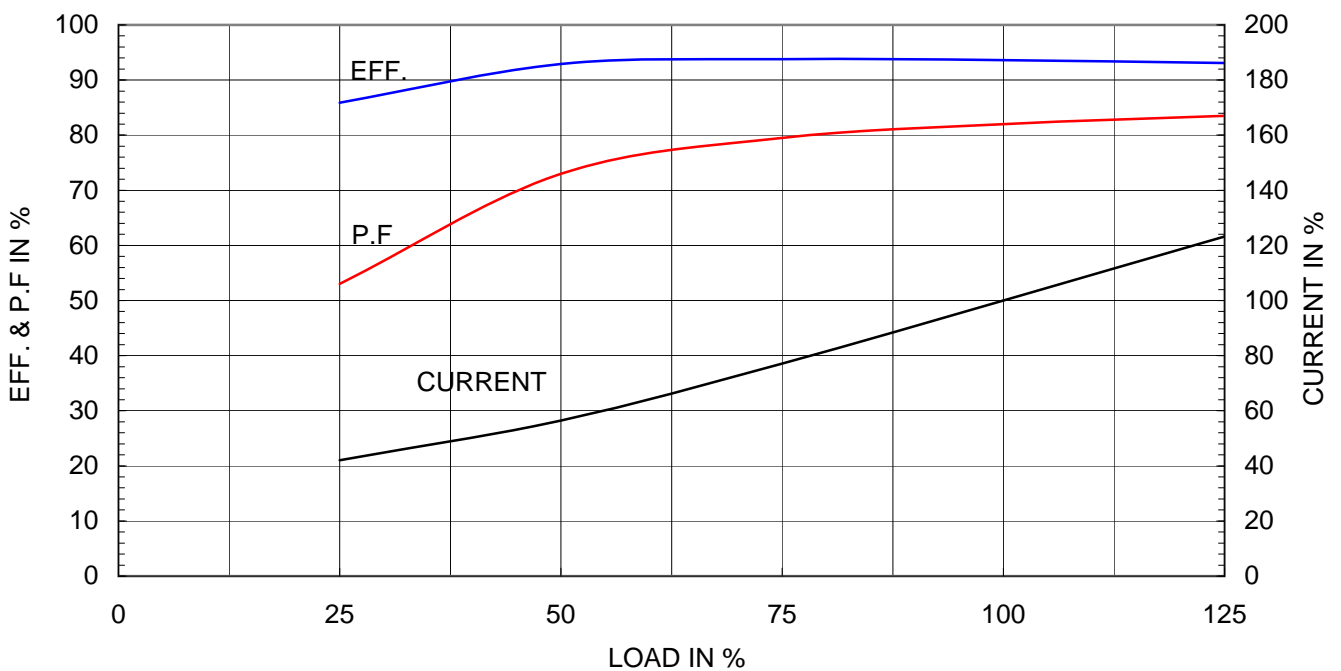
| | | |
|-----------------------------|---|----------------------------|
| Type | : | PLP |
| Full Load Torque | : | 73.4 lb.ft |
| Motor moment of Inertia (J) | : | 3.940 lb.ft ² |
| Load moment of Inertia (J) | : | 327.481 lb.ft ² |

| | | | |
|-------------------|---------------|----------|-------|
| 18.5 kW | 25 HP | 60 Hz | |
| 4 P | Rated Speed : | 1775 RPM | |
| Rated Voltage | 575V | 460V | 230V |
| Full Load Current | 24.2A | 30.3A | 60.6A |

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



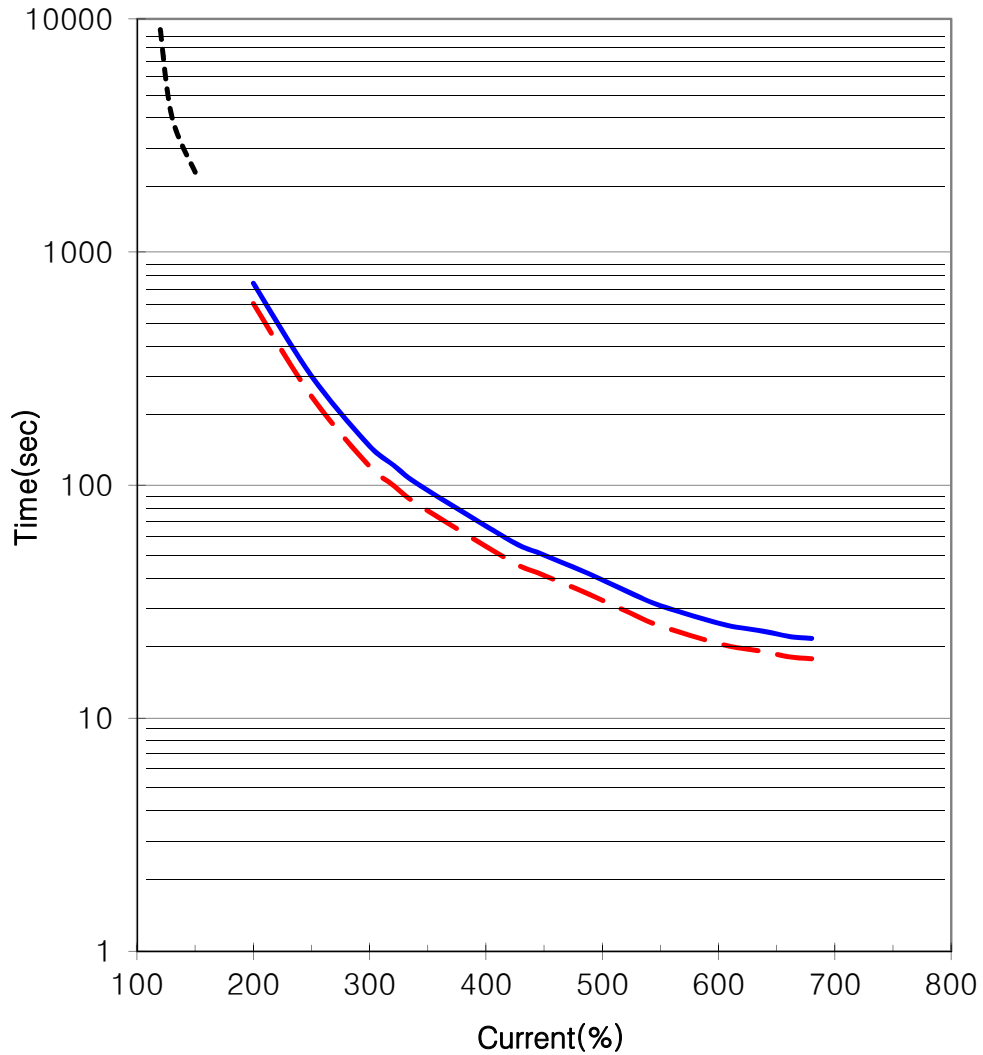


THERMAL LIMIT & TIME CURRENT CURVE

CURVE NO.

T-PLP25-18-284TS

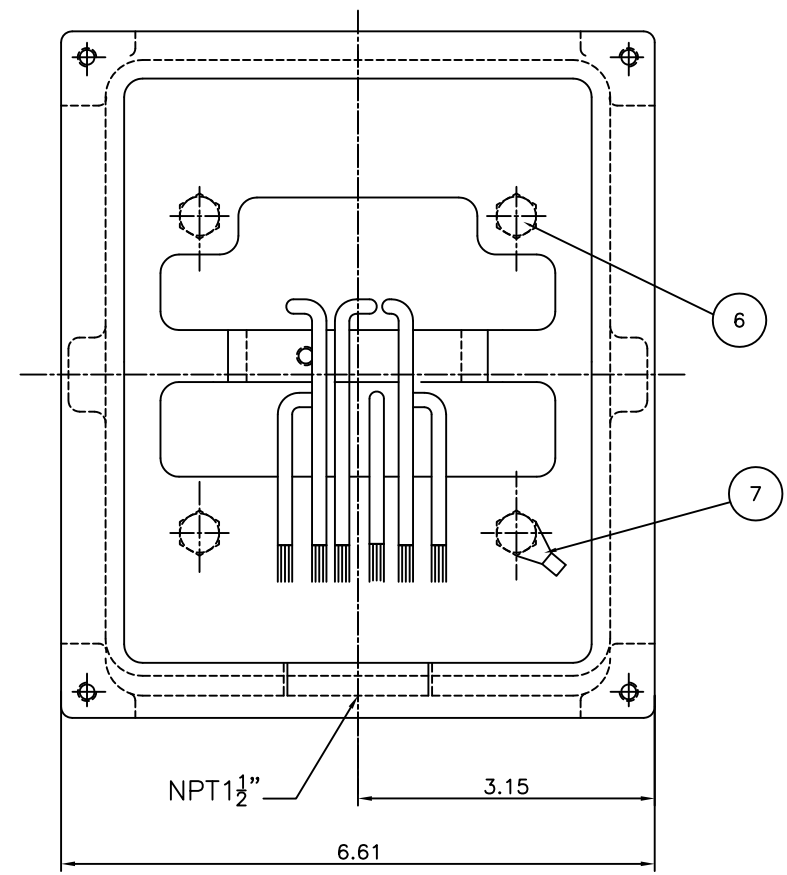
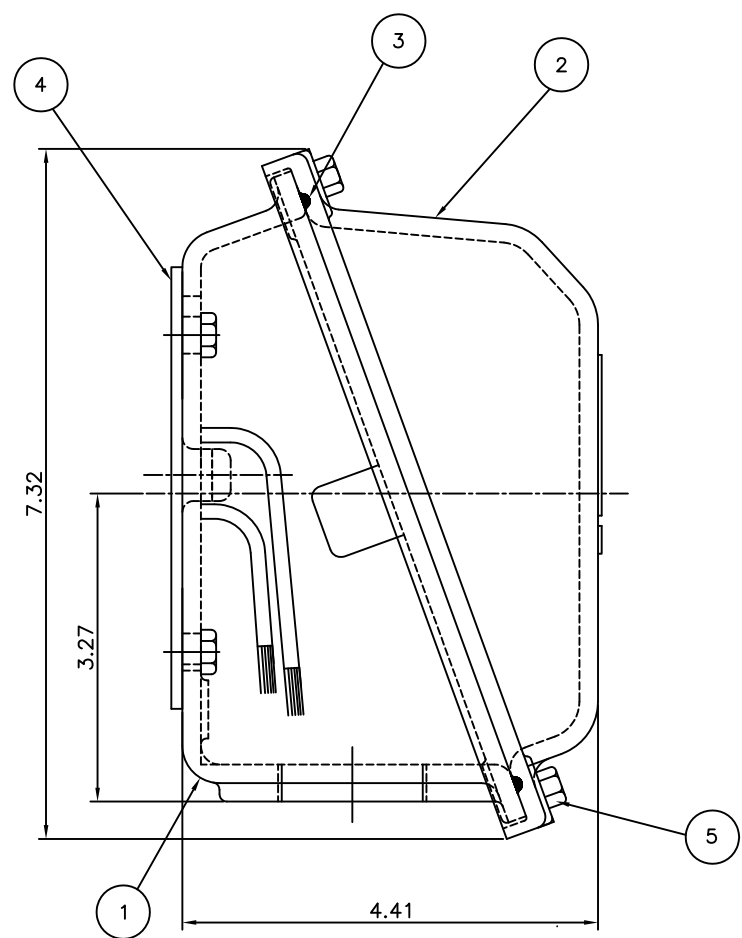
| | | | | | | | | |
|--------------------|---------------|--------------------|---------------|----|----------|-------|----|----|
| Type : | PLP25-18-284T | | 25 | HP | 4 | P | 60 | Hz |
| FULL LOAD TORQUE : | 73.4 | lb.ft | RATED SPEED : | | 1775 rpm | | | |
| J OF LOAD : | - | lb.ft ² | VOLTAGE | | 460 V | 575 V | | |
| J OF MOTOR : | 3.9 | lb.ft ² | RATED CURRENT | | 30.3A | 24.2A | | |



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

| STARTING TIME | SAFE STALL TIME |
|------------------------------------|---------------------------|
| - at rated voltage starting | 18 sec. at Hot condition |
| - at 80% of rated voltage starting | 22 sec. at Cold condition |

THIS DRAWING IS PROPRIETARY TO HHI. NO PART OF THIS DRAWING MAYBE 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 | EPDM | φ4 | 1 |
| 4 | BOX GASKET | NBR | -- | 1 |
| 5 | COVER+BOX HEX BOLT | S45C | M6 X L20 | 4 |
| 6 | BOX+FRAME HEX BOLT | S45C | M8 X L20 | 4 |
| 7 | GROUND TERMINAL LUG | CU | -- | 1 |

| Q'TY | DESCRIPTION | MATERIAL | DIMENSION | WEIGHT | PART NO. | REMARK | NO. |
|---------|-------------|----------|----------------|-----------------------|-------------|----------------|-----|
| APPD BY | KIM.Y.S | UNIT | INCH | SUBJECT | NEMA284/286 | CAD PROJ FILE | |
| CHKD BY | KO.S.H | SCALE | 1:1 | 227B8008NA1 | | | |
| CHKD BY | --- | PROJEC'N | 3각법(3rd Angle) | TITLE | | | |
| DSND BY | Y.J.HWANG | DATE | 2005.02.16 | TERMINAL BOX ASSEMBLY | | | |
| REF. NO | | | | | 227B8008NA2 | Sheet No. of | |
| DWG NO | | | | | 227B8008NA2 | Revision No. 0 | |



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