

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **CEM4313T**

**75HP,3555RPM,3PH,60HZ,365TSC,A36052M,TEF**

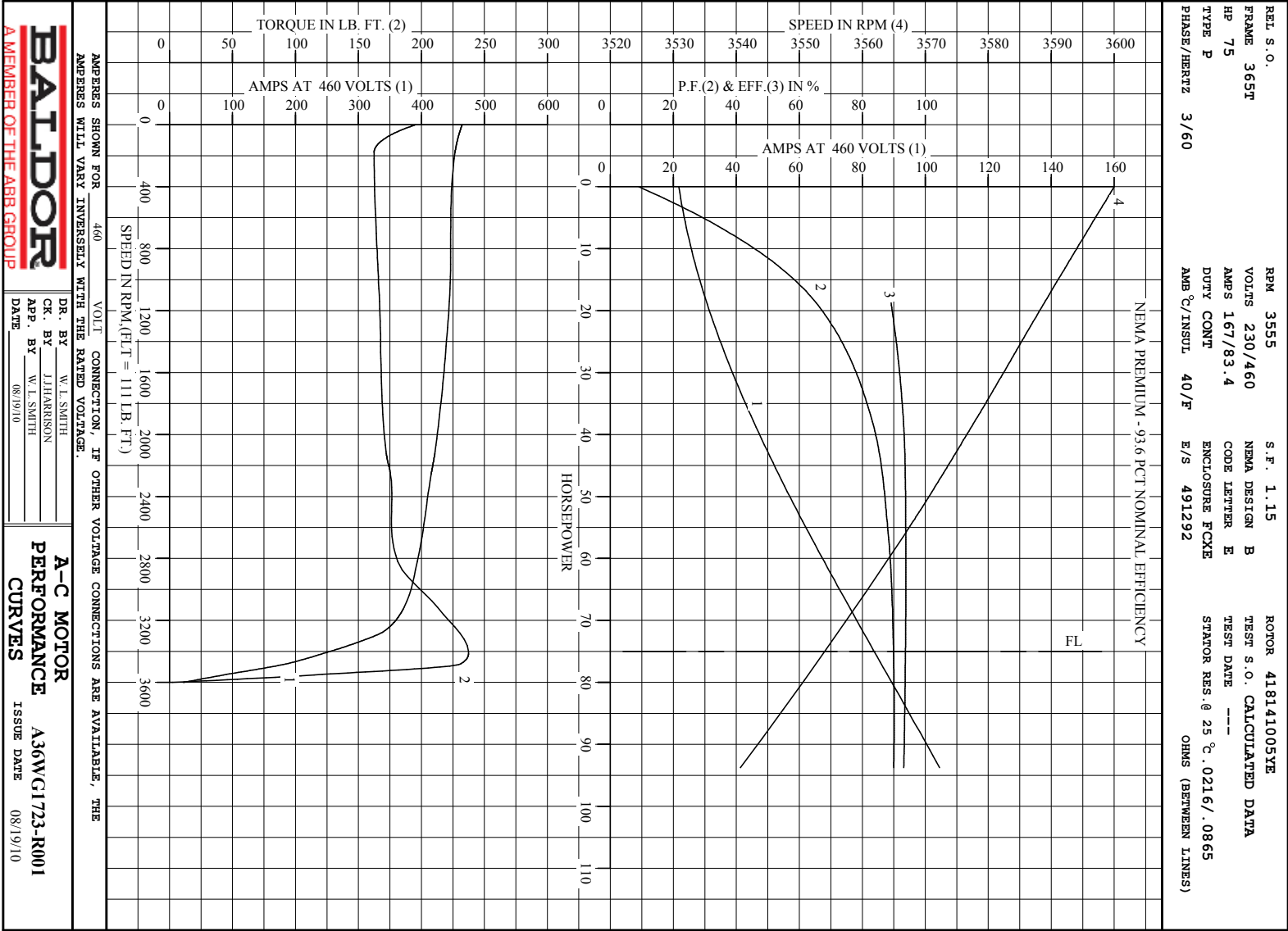
| Part Detail |         |                |         |             |           |               |            |
|-------------|---------|----------------|---------|-------------|-----------|---------------|------------|
| Revision:   | J       | Status:        | PRD/A   | Change #:   |           | Proprietary:  | No         |
| Type:       | AC      | Prod. Type:    | A36052M | Elec. Spec: | A36WG1723 | CD Diagram:   | 416820-002 |
| Enclosure:  | TEFC    | Mfg Plant:     |         | Mech. Spec: |           | Layout:       | 617428-018 |
| Frame:      | 365TSC  | Mounting:      | F1      | Poles:      | 02        | Created Date: | 12-17-2010 |
| Base:       |         | Rotation:      | R       | Insulation: | B         | Eff. Date:    | 09-26-2016 |
| Leads:      | 3#2,6#4 |                |         |             |           | Replaced By:  |            |
| Literature: |         | Elec. Diagram: |         |             |           |               |            |

## Nameplate NP2383L

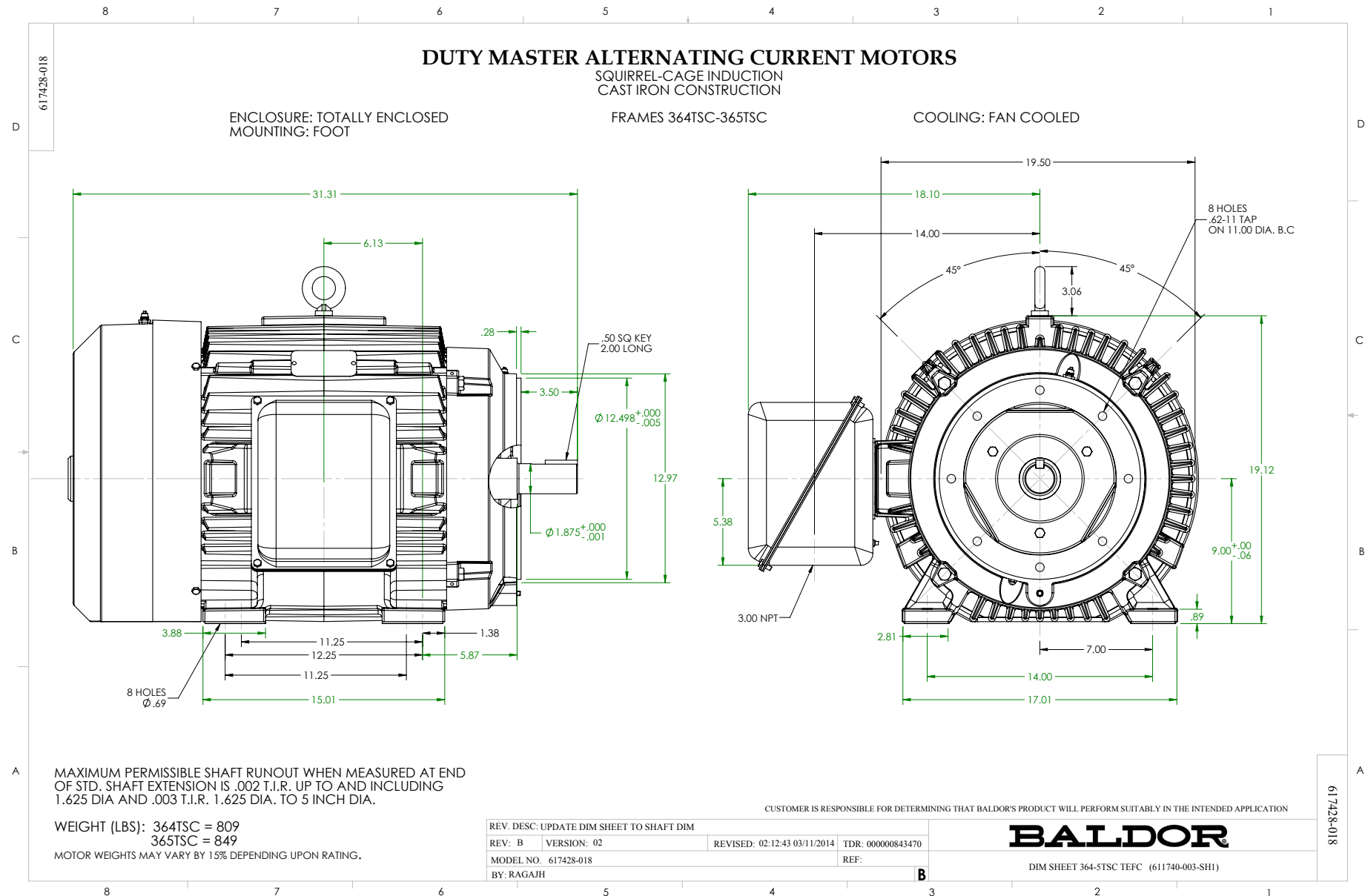
|                         |            |                       |          |
|-------------------------|------------|-----------------------|----------|
| CAT.NO.                 | CEM4313T   | SPEC NO.              | P36G4677 |
| HP                      | 75         | AMPS                  | 167/83.4 |
| FRAME                   | 365TSC     | RPM                   | 3555     |
| DRIVE END BEARING       | 65BC03J30X | HZ                    | 60       |
| OPP D.E. BEARING        | 65BC03J30X | AMB                   | 40       |
| SER.NO.                 |            | SF                    | 1.15     |
|                         |            | INSUL.CLASS           | F        |
|                         |            | PHASE                 | 3        |
|                         |            | DUTY                  | CONT     |
|                         |            | TYPE                  | P        |
|                         |            | ENCL                  | TEFC     |
|                         |            | CODE                  | E        |
|                         |            | POWER FACTOR          | 90       |
|                         |            | NEMA-NOM-EFFICIENCY   | 93.6     |
|                         |            | MAX CORR KVAR         | 09.5     |
|                         |            | GUARANTEED EFFICIENCY | 92.4     |
| NEMA NOM/CSA QUOTED EFF |            | MOTOR WEIGHT          | 905      |

| Parts List  |                                         |          |
|-------------|-----------------------------------------|----------|
| Part Number | Description                             | Quantity |
| SA213540    | SA P36G4677                             | 1.000 EA |
| RA200760    | RA P36G4677                             | 1.000 EA |
| 421948032   | LABEL, MYLAR                            | 1.000 EA |
| 000613006PU | N/P (RELEASE QTY 10,000) UL CSA LABLE   | 1.000 EA |
| 000692000VD | LABEL WARNING                           | 1.000 EA |
| NP2383L     | SUPER-E ,SS, CC, CSA-C US, CSA EEV      | 1.000 EA |
| 085922073B  | BRKT 360 085922072WCC KB                | 1.000 EA |
| 415072001B  | CLAMP                                   | 1.000 EA |
| 078559001A  | +FANCV - 360                            | 1.000 EA |
| 034180012DA | KEY 1X4X1/4X1-1/2 L                     | 1.000 EA |
| 702676001C  | FAN 360 - 56 PCS                        | 1.000 EA |
| 004824015A  | GREASE POLYREX EM                       | 0.540 LB |
| 032018012DK | HHCS 1/2-13X1-1/2 PLTD.                 | 4.000 EA |
| 032018008AK | HHCS 1/4-20X1 PLATED                    | 4.000 EA |
| 032018024CK | HHCS 3/8-16X3 PLTD.                     | 3.000 EA |
| 415096002A  | CPLG 1/8 HEX TYPE                       | 1.000 EA |
| 410700004F  | WSHR                                    | 1.000 EA |
| 035000001G  | GREASE RELIEF FITTING, ALEMITE 317400   | 1.000 EA |
| 034530052AB | P/NIP 1/8X6-1/2 GALV.                   | 1.000 EA |
| 034690001AB | SQHDPLG, COND                           | 1.000 EA |
| 034600001AA | BUSH 1/4TO1/8 BLACK                     | 1.000 EA |
| 034690001AB | SQHDPLG, COND                           | 1.000 EA |
| 034600001AA | BUSH 1/4TO1/8 BLACK                     | 1.000 EA |
| 085922167A  | STD C-FACE BRKT B. E. 360 TEFC 6313 BRG | 1.000 EA |

| Parts List (continued) |                                         |          |
|------------------------|-----------------------------------------|----------|
| Part Number            | Description                             | Quantity |
| 415045002E             | SLGR                                    | 1.000 EA |
| 032018012DK            | HHCS 1/2-13X1-1/2 PLTD.                 | 4.000 EA |
| 032018024CK            | HHCS 3/8-16X3 PLTD.                     | 3.000 EA |
| 035000001G             | GREASE RELIEF FITTING, ALEMITE 317400   | 1.000 EA |
| 077176000L             | C/BOX, PAINTED 360-400                  | 1.000 EA |
| 077176001A             | CBOXC, PAINTED 360-400                  | 1.000 EA |
| 043292000AJ            | GASK 320-400                            | 1.000 EA |
| 402731001A             | GASK 360-440                            | 1.000 EA |
| 418150003A             | GREASE FITTING CAP                      | 1.000 EA |
| MG1000Y03              | MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,     | 0.250 GA |
| 033775004EA            | DRSCR #6-1/4 304 S.S.                   | 2.000 EA |
| 032018005AK            | HHCS 1/4-20X5/8 PLATED                  | 4.000 EA |
| 032018008CK            | HHCS 3/8-16X1L PLATED                   | 4.000 EA |
| 035000001A             | ALFTG 1/8" 1610-BL                      | 1.000 EA |
| 415000103D             | T/LUG #4AWG-1/0AWG W/HOLE FOR .250 BOLT | 1.000 EA |
| 406099000A             | PLUG - FAN COVER 320-440                | 1.000 EA |
| 033512004LB            | HHTTS 1/4-20X1/2 PLTD.                  | 1.000 EA |
| 035000001A             | ALFTG 1/8" 1610-BL                      | 1.000 EA |
| 418150003A             | GREASE FITTING CAP                      | 1.000 EA |
| 034180016GA            | KEY 1/2X1/2X2 L                         | 1.000 EA |
| N424003509DBA          | LEAD SET 2-1/4-1 AWG 6-DB 360 FR 54 IN  | 1.000 EA |
| 14PA1000               | PACKAGING 314 GROUP COMBINED PRINT      | 1.000 EA |

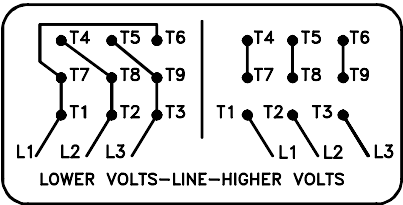
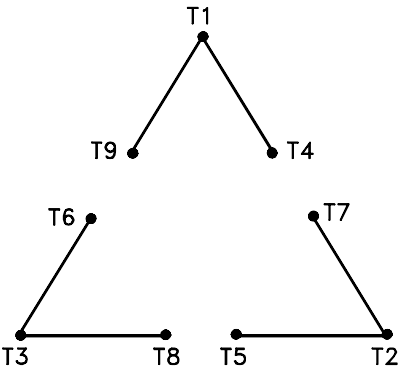


|                                                                                                                                            |             |                                                                                     |                    |                                                                        |              |         |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------|--------------|---------|
| REL. S.O.                                                                                                                                  | FRAME       | HP                                                                                  | TYPE               | PHASE/ HERTZ                                                           | RPM          | VOLTS   |
|                                                                                                                                            | 365T        | 75                                                                                  | P                  | 3/60                                                                   | 3555         | 230/460 |
|                                                                                                                                            |             |                                                                                     |                    |                                                                        |              |         |
| AMPS                                                                                                                                       | DUTY        | AMB °C/ INSUL.                                                                      | S.F.               | NEMA DESIGN                                                            | CODE LETTER  | ENCL.   |
| 167/83.4                                                                                                                                   | CONT        | 40/F                                                                                | 1.15               | B                                                                      | E            | FCXE    |
|                                                                                                                                            |             |                                                                                     |                    |                                                                        |              |         |
| E/S                                                                                                                                        | ROTOR       | TEST S.O.                                                                           | TEST DATE          | STATOR RES. @25 °C OHMS (BETWEEN LINES)                                |              |         |
| 491292                                                                                                                                     | 418141005YE | ---                                                                                 | ---                | .0216/.0865                                                            |              |         |
| PERFORMANCE                                                                                                                                |             |                                                                                     |                    |                                                                        |              |         |
| LOAD                                                                                                                                       | HP          | AMPERES                                                                             | RPM                | % POWER FACTOR                                                         | % EFFICIENCY |         |
| NO LOAD                                                                                                                                    | 0           | 21.9                                                                                | 3600               | 8.99                                                                   | 0            |         |
| 1/4                                                                                                                                        | 18.8        | 30.2                                                                                | 3589               | 65.4                                                                   | 89.1         |         |
| 2/4                                                                                                                                        | 37.5        | 45.5                                                                                | 3578               | 83.0                                                                   | 93.0         |         |
| 3/4                                                                                                                                        | 56.2        | 63.6                                                                                | 3567               | 88.3                                                                   | 93.8         |         |
| 4/4                                                                                                                                        | 75.0        | 83.4                                                                                | 3554               | 89.9                                                                   | 93.7         |         |
| 5/4                                                                                                                                        | 93.8        | 105                                                                                 | 3541               | 90.0                                                                   | 93.2         |         |
|                                                                                                                                            |             |                                                                                     |                    |                                                                        |              |         |
| SPEED TORQUE                                                                                                                               |             |                                                                                     |                    |                                                                        |              |         |
|                                                                                                                                            |             | RPM                                                                                 | TORQUE % FULL LOAD | TORQUE LB.-FT.                                                         | AMPERES      |         |
| LOCKED ROTOR                                                                                                                               |             | 0                                                                                   | 176                | 195                                                                    | 465          |         |
| PULL UP                                                                                                                                    |             | 180                                                                                 | 147                | 162                                                                    | 453          |         |
| BREAKDOWN                                                                                                                                  |             | 3410                                                                                | 214                | 237                                                                    | 247          |         |
| FULL LOAD                                                                                                                                  |             | 3554                                                                                | 100                | 111                                                                    | 83.4         |         |
| AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE |             |                                                                                     |                    |                                                                        |              |         |
| REMARKS: CALCULATED DATA<br>NEMA PREMIUM - 93.6 PCT NOMINAL EFFICIENCY                                                                     |             |                                                                                     |                    |                                                                        |              |         |
| <b>BALDOR</b><br>A MEMBER OF THE ABB GROUP                                                                                                 |             | DR. BY W. L. SMITH<br>CK. BY J. J. HARRISON<br>APP. BY W. L. SMITH<br>DATE 08/19/10 |                    | A-C MOTOR<br>PERFORMANCE DATA<br>A36WG1723-R001<br>ISSUE DATE 08/19/10 |              |         |



416820-002

A-C MOTOR  
CONNECTION DIAGRAM  
STANDARD 9 LEAD DELTA-CONNECTED



(N.P. 1575-B)

416820-002

|                                      |             |                                |                                              |  |
|--------------------------------------|-------------|--------------------------------|----------------------------------------------|--|
| REV. DESC: LOADED TO BUS, C/R 335225 |             |                                | <b>BALDOR</b>                                |  |
| REV. LTR: -                          | VERSION: 00 | TDR: 000000538207              |                                              |  |
| FILE: \MGA\00000\661                 |             | REVISED: 10: 47: 51 04/30/2010 | CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED |  |
| MTL: -                               |             | BY: RAGRA                      | SH 1 of 1                                    |  |