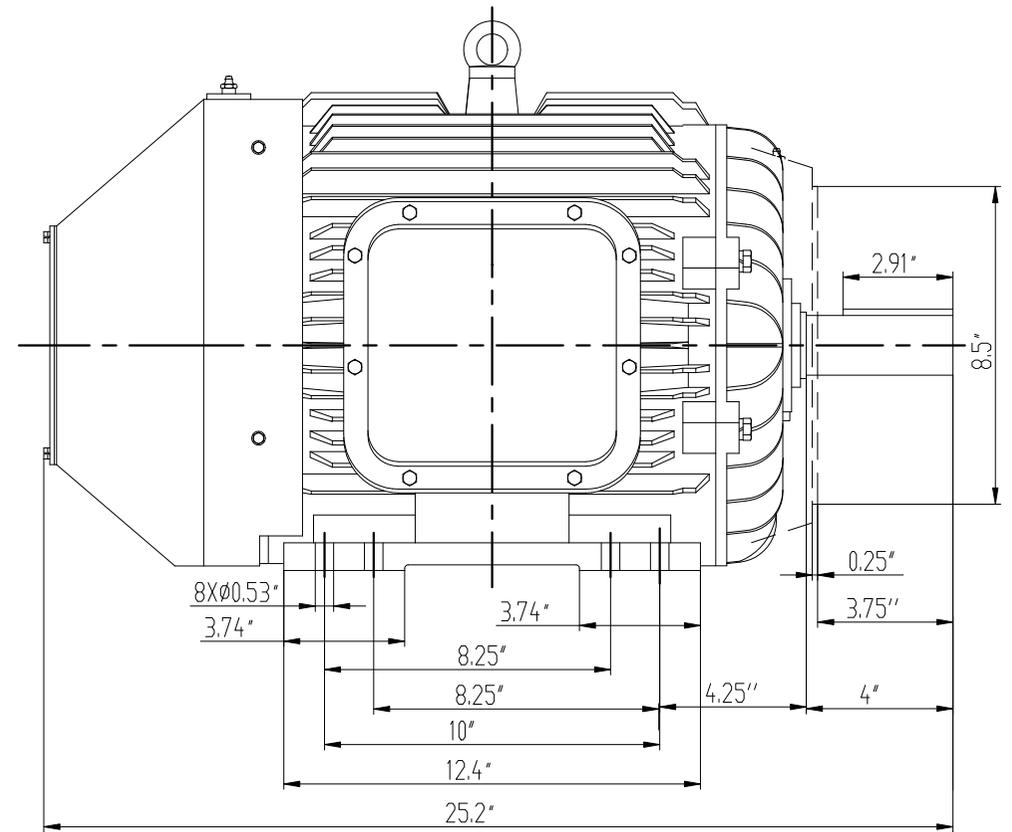
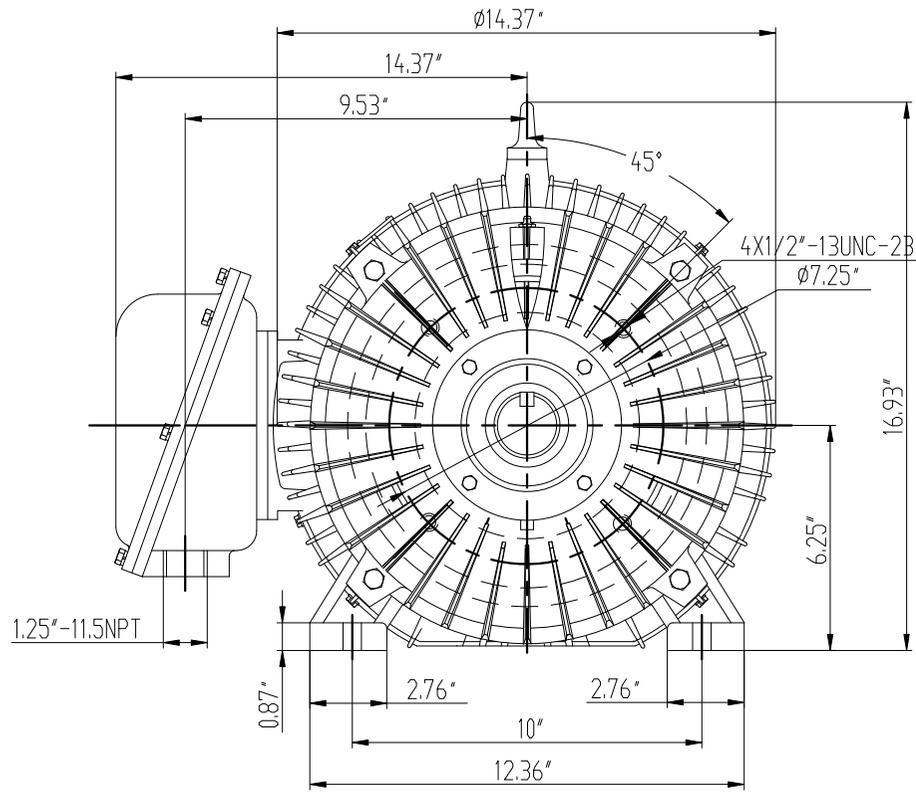


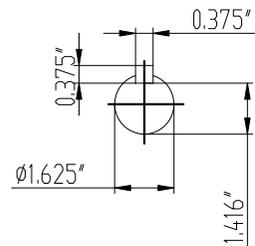
# Motor Data Sheet

|   |  |                   |      |   |                                   |   |                            |
|---|--|-------------------|------|---|-----------------------------------|---|----------------------------|
| Supplied To.  |  |                   |      | Type Code   |                                   | Frame Ref.  |                            |
|   |  |                   |      | MC4N015-9   |                                   | 254T  |                            |
| Manufacturing Standard<br>NEMA MG-1, IEEE841  |  |                   |      | Starting Method   |                                   | Output  |                            |
| Frame Material<br>Cast Iron   |  | Mounting<br>F1/F2 |      | 15  |                                   | Hp  |                            |
| All Data Below based on 460V @ 60hz   |  |                   |      | VFD Duty<br>Variable torque 10:1<br>Constant torque 5:1 |                                   | Supply<br>460   |                            |
| Item No.  |  |                   |      | L.R. PF<br>0.36   |                                   | Connection type<br>D  |                            |
| Sales order / Line no.  |  |                   |      | Amps<br>@460V 17.5                                      |                                   |   |                            |
| Account No.   |  |                   |      | N.L. amps<br>2.9  |                                   | Hertz<br>60   |                            |
| Load (Hp)   |  | Full              | 3/4  | 1/2   | N.L. PF<br>0.2                    |   | Poles/rpm<br>4 / 1800      |
| Efficiency  |  | 92.4              | 90   | 89  | Duty<br>S1                        |   | Cooling Code<br>TEFC/IC411 |
| Power Factor  |  | 0.87              | 0.89 | 0.88  | Efficiency<br>PREMIUM             |   | Insulation<br>F            |
| Amps (Ia) at 460V   |  | 17.5              | 13.1 | 8.9   | Phase<br>3                        |   | Service Factor<br>1.15     |
| Speed (rpm)   |  | 1767              | 1784 | 1789  | cos Ø<br>0.87                     |   | IP<br>55                   |
| Speed / Torque Curve  |  |                   |      | Noise pressure level at 1m no load<br>68                |                                   | dB(A)   |                            |
|   |  |                   |      | DE bearing Ref.<br>6309/C3                              |                                   | NDE bearing Ref.<br>6209/C3   |                            |
| FLT (Mn)  |  |                   |      | 43.8  |                                   | ft-lb   |                            |
| LRT (DOL) (Ma/Mn)   |  | 1.7               | FLT  | 74.4  | Rotor inertia<br>0.097            |   | kgm/sq                     |
| LRT (DOL) 80% V   |  | 1.1               | FLT  | 47.6  | Vibration levels less than<br>1.8 |   | mm/sec                     |
| PUT (Ms/Mn)   |  | 0.8               | FLT  | 36.1  | Shaft details<br>Ø                |   | 1.625" x 4" LONG EXT'N     |
| POT (Mk/Mn)   |  | 2.3               | FLT  | 100.7   | T.Box entry<br>1-1/4"NPT          |   |                            |
| Speed / Current Curve   |  |                   |      | Motor weight (Approx. net)<br>352.8                     |                                   | lb  |                            |
|  |  |                   |      | L.R. Time hot<br>25.6                                   |                                   | secs  |                            |
| LRC (DOL) (Ia/In)   |  |                   |      | 5.8   |                                   | FLC   |                            |
| LRC (DOL) 80% V   |  | 3.3               | FLC  | 58  | L.R. Time cold<br>62.9            |   | secs                       |
| External inertia (WR^2)   |  |                   |      | KGM^2   |                                   | A.R.T. 100% Volts<br>25.6   |                            |
| No of starts/Hr with above inertia  |  |                   |      |   |                                   | A.R.T. 80% Volts<br>46.5  |                            |
| Starting time with above inertia  |  |                   |      | Secs  |                                   | Number of terminals<br>3 wire   |                            |
| Remarks   |  |                   |      |   |                                   | NEMA Design letter<br>G   |                            |
|   |  |                   |      |   |                                   | Maximum volts drop at start:<br>20%   |                            |
|   |  |                   |      |   |                                   | Maximum Altitude<br>3300  |                            |
|   |  |                   |      |   |                                   | Ambient temp range<br>-20 - 40  |                            |
|   |  |                   |      |   |                                   | Thermal time constant<br>90 Minutes   |                            |
|   |  |                   |      |   |                                   | Direction of rotation<br>CW/CCW/BI  |                            |
|   |  |                   |      |   |                                   | Winding thermistors fitted<br>As Option   |                            |
|   |  |                   |      |   |                                   | Winding thermostats fitted<br>As Option   |                            |
|   |  |                   |      |   |                                   | Anti condensation heaters<br>1/120V/75W   |                            |
|   |  |                   |      |   |                                   | Drawing number<br>1AP.050.0392.3WXY   |                            |
|   |  |                   |      |   |                                   | Certifying Authority<br>CSA (C=US)  |                            |
|   |  |                   |      |   |                                   | Certificate No.   |                            |
|   |  |                   |      |   |                                   | Marking  Class 1 Div 2 Grps A,B,C,D |                            |

1AP.050.0554.1-8WX



| MODEL               |
|---------------------|
| NSHE254T/TC-2 15HP  |
| NSHE256T/TC-2 20HP  |
| NSHE254T/TC-4 15HP  |
| NEHE256T/TC-4 20HP  |
| NSHE254T/TC-6 7.5HP |
| NSHE256T/TC-6 10HP  |
| NSHE254T/TC-8 5HP   |
| NSHE256T/TC-8 7.5HP |



| LET     | REVISION     | BY | DATE |
|---------|--------------|----|------|
| DESIGN  | REN XIADHUA  |    |      |
| REVIEW  | XIE XIADLONG |    |      |
| APPROVE | YU JIABIN    |    |      |
| DATE    | 20170522     |    |      |

NSHE250 MOTOR

F-1

1AP.050.0554.1-8WX

| WEIGHT | SCALE |
|--------|-------|
|        | 1:1   |

