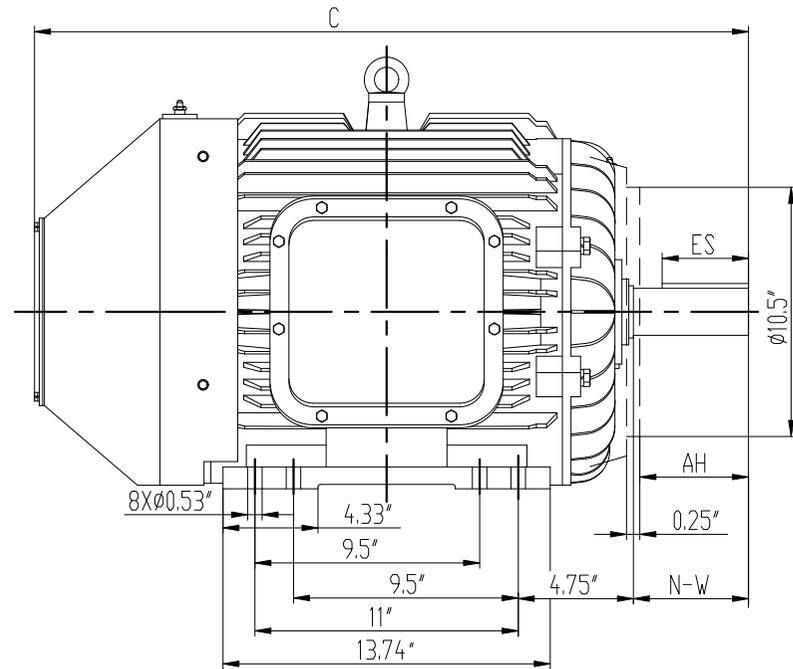
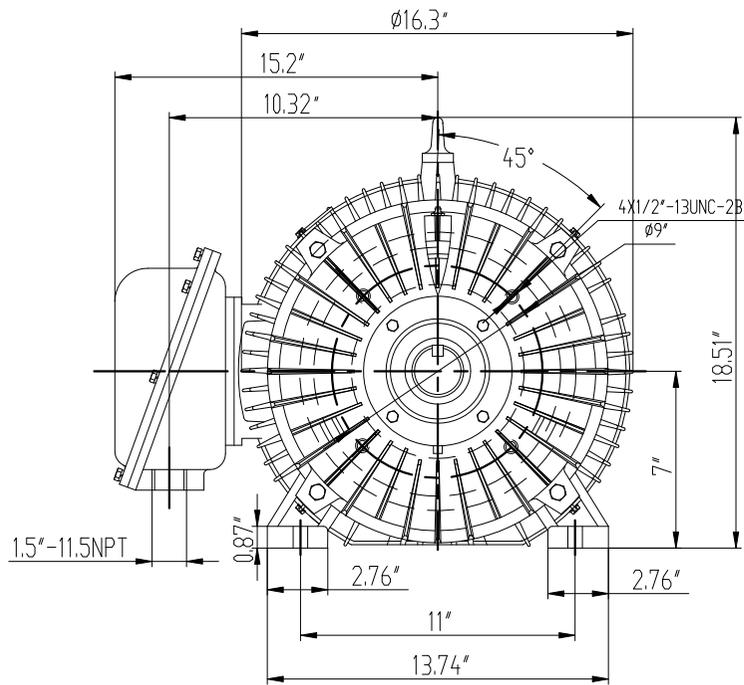
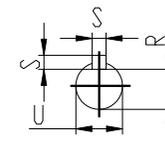


# Motor Data Sheet

|   |  |                   |      |  |  |                              |  |
|---|--|-------------------|------|--|--|------------------------------|--|
| Supplied To.  |  |                   |      | Type Code  |  | Frame Ref.                   |  |
|   |  |                   |      | MC6N020-9  |  | 286T                         |  |
| Manufacturing Standard<br>NEMA MG-1, IEEE841  |  |                   |      | Starting Method  |  | Output                       |  |
| Frame Material<br>Cast Iron   |  | Mounting<br>F1/F2 |      | 20   |  | Hp                           |  |
| All Data Below based on 460V @ 60hz   |  |                   |      | Variable torque 10:1<br>Constant torque 5:1  |  | Supply                       |  |
| Item No.  |  |                   |      | L.R. PF  |  | 460 V                        |  |
| Sales order / Line no.  |  |                   |      | 0.353  |  | Connection type              |  |
| Account No.   |  |                   |      | N.L. amps  |  | D                            |  |
| Load (Hp)   |  | Full              | 3/4  | 4.3  |  | Hertz                        |  |
| Efficiency  |  | 91.7              | 91.5 | 0.2  |  | 60                           |  |
| Power Factor  |  | 0.81              | 0.81 | N.L. PF  |  | Poles/rpm                    |  |
| Amps (Ia) at 460V   |  | 23.5              | 18.9 | 0.2  |  | 6 / 1200                     |  |
| Speed (rpm)   |  | 1179              | 1185 | Duty   |  | Cooling Code                 |  |
| <b>Speed / Torque Curve</b><br>   |  |                   |      | S1   |  | TEFC/IC411                   |  |
|   |  |                   |      | Efficiency<br>PREMIUM  |  | Insulation<br>F              |  |
| FLT (Mn)  |  | 87.5              |      | Phase  |  | cos Ø                        |  |
| LRT (DOL) (Ma/Mn)   |  | 1.7               | FLT  | 3  |  | IP                           |  |
| LRT (DOL) 80% V   |  | 1.1               | FLT  | 1.15   |  | 0.81                         |  |
| PUT (Ms/Mn)   |  | 0.8               | FLT  | Noise pressure level at 1m no load   |  | 63 dB(A)                     |  |
| POT (Mk/Mn)   |  | 2.3               | FLT  | DE bearing Ref.  |  | 6310/C3                      |  |
| NDE bearing Ref.  |  |                   |      | 6310/C3  |  | Lubrication grease           |  |
| Lubrication interval (hrs)  |  |                   |      | DE 8760  |  | NDE 8760                     |  |
| Rotor inertia   |  |                   |      | 0.2  |  | kgm/sq                       |  |
| Vibration levels less than  |  |                   |      | 1.8  |  | mm/sec                       |  |
| Shaft details   |  |                   |      | Ø  |  | 1.875" x 4.62" LONG EXT'N    |  |
| T.Box entry   |  |                   |      | 1-1/2"NPT  |  |                              |  |
| Motor weight (Approx. net)  |  |                   |      | 542.43   |  | lb                           |  |
| <b>Speed / Current Curve</b><br> |  |                   |      | L.R. Time hot  |  | 25.9                         |  |
|   |  |                   |      | L.R. Time cold   |  | 63.6                         |  |
| LRC (DOL) (Ia/In)   |  | 5.4               | FLC  | A.R.T. 100% Volts  |  | 25.9                         |  |
| LRC (DOL) 80% V   |  | 3.0               | FLC  | A.R.T. 80% Volts   |  | 48.4                         |  |
| External inertia (WR^2)   |  |                   |      | KGM^2  |  | Number of terminals          |  |
| No of starts/Hr with above inertia  |  |                   |      |  |  | 3 wire                       |  |
| Starting time with above inertia  |  |                   |      | Secs   |  | NEMA Design letter           |  |
| Remarks   |  |                   |      |  |  | G                            |  |
| Drawing number  |  |                   |      | 1AP.050.0274.8WXY  |  | Maximum volts drop at start: |  |
| Certifying Authority  |  |                   |      | CSA (C=US)   |  | 20%                          |  |
| Certificate No.   |  |                   |      |  |  | Maximum Altitude             |  |
| Marking   |  |                   |      |  |  | 3300 ft                      |  |
|   |  |                   |      | Class 1 Div 2 Grps A,B,C,D   |  | Ambient temp range           |  |
|   |  |                   |      |  |  | -20 - 40 °C                  |  |



| MODEL                | ES   | U      | R     | S     | N-W  | C     |
|----------------------|------|--------|-------|-------|------|-------|
| NSHE284TS/TSC-2 25HP | 1.93 | Ø1.625 | 1.416 | 0.375 | 3.25 | 27.16 |
| NSHE286TS/TSC-2 30HP | 1.93 | Ø1.625 | 1.416 | 0.375 | 3.25 | 27.16 |
| NSHE284TS/TSC-4 25HP | 1.93 | Ø1.625 | 1.416 | 0.375 | 3.25 | 27.16 |
| NSHE286TS/TSC-4 30HP | 1.93 | Ø1.625 | 1.416 | 0.375 | 3.25 | 27.16 |
| NSHE284T/TC-4 25HP   | 3.3  | Ø1.875 | 1.591 | 0.5   | 4.62 | 28.54 |
| NSHE286T/TC-4 30HP   | 3.3  | Ø1.875 | 1.591 | 0.5   | 4.62 | 28.54 |
| NSHE284T/TC-6 15HP   | 3.3  | Ø1.875 | 1.591 | 0.5   | 4.62 | 28.54 |
| NSHE286T/TC-6 20HP   | 3.3  | Ø1.875 | 1.591 | 0.5   | 4.62 | 28.54 |
| NSHE284T/TC-8 10HP   | 3.3  | Ø1.875 | 1.591 | 0.5   | 4.62 | 28.54 |
| NSHE286T/TC-8 15HP   | 3.3  | Ø1.875 | 1.591 | 0.5   | 4.62 | 28.54 |



|                       |  |  |  |                      |  |
|-----------------------|--|--|--|----------------------|--|
|                       |  |  |  | 1AP.050.0555.1-10WXY |  |
|                       |  |  |  | NSHE280 MOTOR        |  |
| LET. REVISION BY DATE |  |  |  | WEIGHT SCALE         |  |
| DESIGN REN XIADHUA    |  |  |  | 1:1                  |  |
| REVIEW XIE XIADLONG   |  |  |  |                      |  |
| APPROVE YU JIABIN     |  |  |  |                      |  |
| DATE 20170522         |  |  |  |                      |  |
|                       |  |  |  | F-1                  |  |