



Model Number GR3-CI-TF-286JM-4-BR-D-30-230|460-60

MFG PN TFC286T30U4B

List Price --

All data shown at HIGH voltage setting

Format STD 3 Phase

### Electrical Data

### General Data

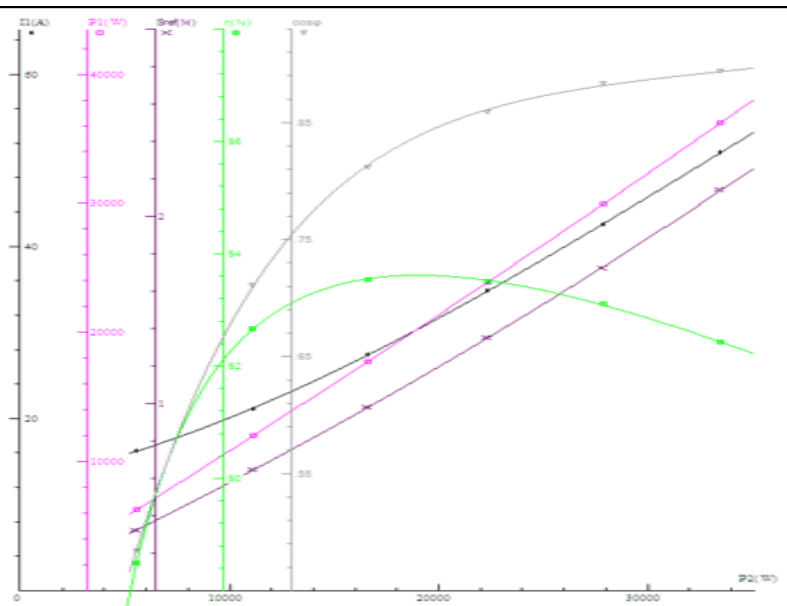
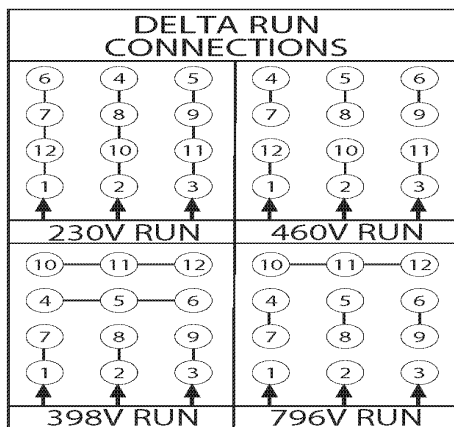
|                               |                       |                    |       |
|-------------------------------|-----------------------|--------------------|-------|
| Rated Motor Output Power      | 30 HP                 | Frame Size         | 286   |
| Rated Motor Speed             | 1775 r/min            | Enclosure          | TEFC  |
| Rated Motor Voltage (3 Phase) | 230 460-60 Volts - HZ | Approximate Weight | 396   |
| Rated Motor Current           | 69.8/34.9 Amps        | NEMA Design        | A     |
| Service Factor                | 1.25                  | IP Rating          | 55    |
| KVA Code                      | K                     | Insulation Class   | F     |
| Nominal Efficiency            | 93.6 %                | Tropicalization    | YES   |
| Nominal Power Factor          | 0.86 cosθ             | Duty               | Cont. |
| Full Load Torque Ft-Lb        | 88.95456 Ft-Lb        | Cable Entry        | 1.25  |
| Temp Rise @ Full Load °C      | 59.6                  | Feet Removable     | YES   |
| Efficiency Level              | IE3 - NEMA Premium    | Double Drilled     | NO    |

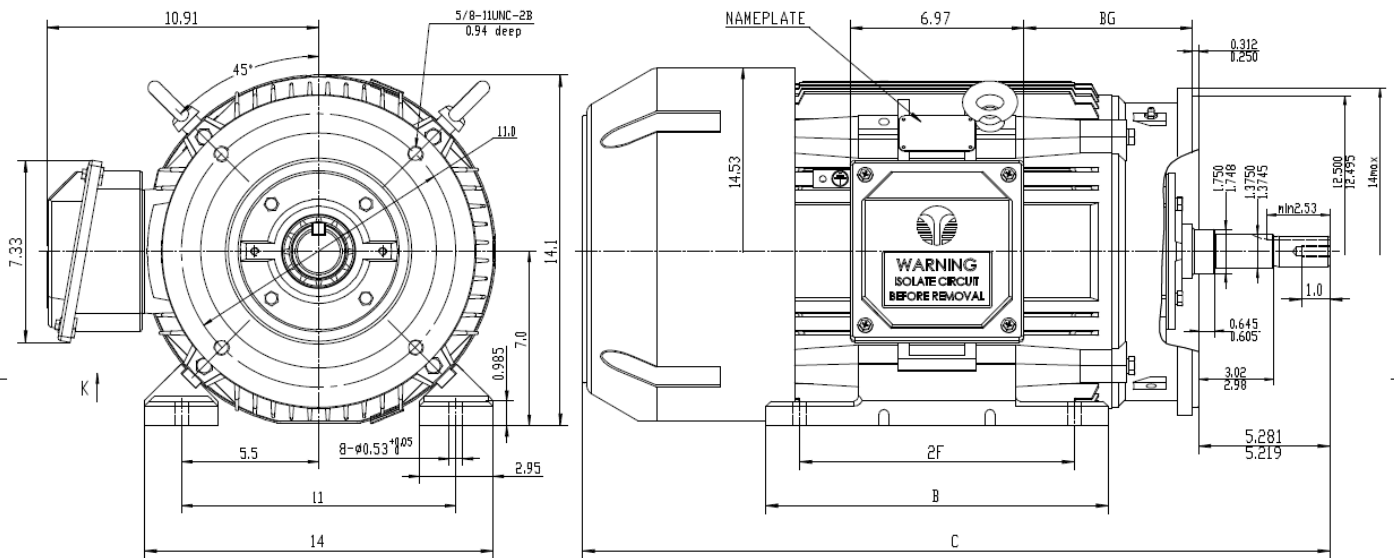
| Load Data    | RPM  | Trq %FL | Current Amps | Rated Ambient (°C)     | 40                   |
|--------------|------|---------|--------------|------------------------|----------------------|
| Locked Rotor | -    | 298     | 329.5        | Rated Altitude (M)     | 1000                 |
| Breakdown    | -    | 364     | -            | Coating                | 7024 - Graphite Grey |
| Pull Up      | -    | 214     | -            | Shaft Grounding        | NO                   |
| 125% of FL   | 1769 | -       | 42.62        | Brake Voltage (DC)     |                      |
| 75% of FL    | 1782 | -       | 27.52        | Brake Torque (N-M)     |                      |
| 50% of FL    | 1788 | -       | 21.25        | <b>Mechanical Data</b> |                      |
| No Load      |      | -       | 14.41        |                        |                      |

|                    |                             |  |  |                   |                 |
|--------------------|-----------------------------|--|--|-------------------|-----------------|
| Hazardous Location | Class 1, Div 2, Grp A,B,C,D |  |  | Bearing DE Side   | 6311 C3         |
|                    |                             |  |  | Bearing NDE Side  | 6311 C3         |
|                    |                             |  |  | Moment of Inertia | kg.m2           |
|                    |                             |  |  | Noise Level       | Per NEMA dB (A) |

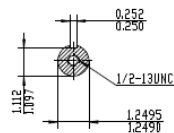
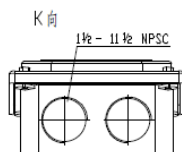
|                                                                                          |    |                      |    |
|------------------------------------------------------------------------------------------|----|----------------------|----|
| CT VFD Range                                                                             | -- | Loaded Torque Curves | -- |
| P1 = INPUT POWER (KW), S = Slip (% of Sync RPM), η = Efficiency (%), cosφ = Power Factor |    |                      |    |

|                |                          |        |      |
|----------------|--------------------------|--------|------|
| Certifications | UL                       | CSA    | DOE  |
| File Numbers   | 323353                   | 224693 | 096A |
| Wiring Diagram | 3PH 12 Lead Dual Voltage |        |      |





| Model | 2F     | B    | BG   | C     |
|-------|--------|------|------|-------|
| 284T  | 9.5    | 12.2 | 6.27 | 28.48 |
| 286T  | 9.5/11 | 13.7 | 6.77 | 29.98 |



| TECHTOP                                     |          | NEMA TEFC 280T JM |                    |                      |  |
|---------------------------------------------|----------|-------------------|--------------------|----------------------|--|
| ShangHai HIMAK Electrical Machinery CO.,LTD |          |                   |                    |                      |  |
| Design                                      | Standard | NO:               | 1HMY.010.JM005 CFC |                      |  |
| Checker                                     | Allow    | STEP MARK         | 1:3                | SORT Cost iron Motor |  |
| Auditing                                    | Date     | S                 |                    |                      |  |