



# WORLDWIDE ELECTRIC MOTOR DATA SHEET

## IOW100-12-445T



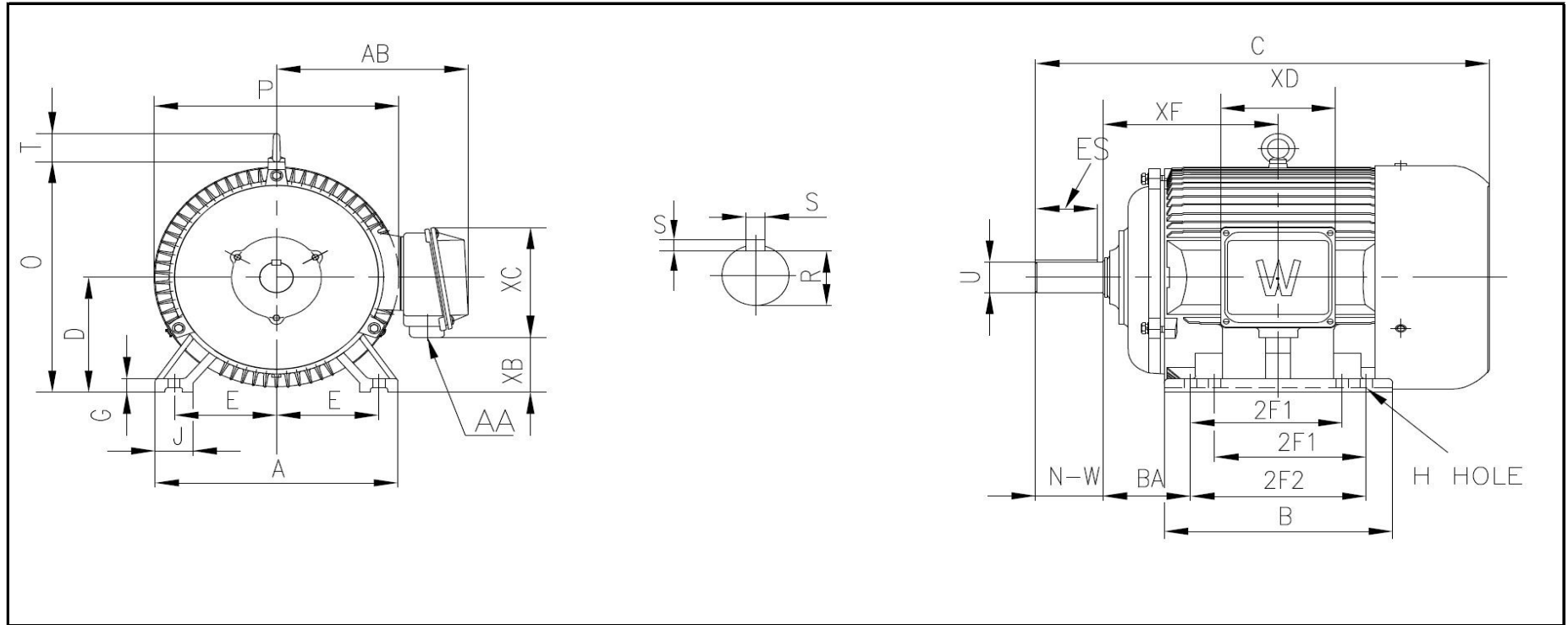
|                                               |                                                |             |             |
|-----------------------------------------------|------------------------------------------------|-------------|-------------|
| HORSEPOWER                                    | 100                                            |             |             |
| RPM / POLES                                   | 1200 / 6                                       |             |             |
| VOLTAGE / PHASE                               | 230 / 460 / 796 V / 3                          |             |             |
| FRAME                                         | 445T                                           |             |             |
| ENCLOSURE / DEGREE OF PROTECTION              | TEFC / IP54                                    |             |             |
| FREQUENCY                                     | 60 HZ Suitable For 50 HZ Operation With 1.0 SF |             |             |
| FULL LOAD SPEED                               | 1130 RPM                                       |             |             |
| SERVICE FACTOR                                | 1.0                                            |             |             |
| INSULATION CLASS                              | F                                              |             |             |
| FULL LOAD AMPS; 230 / 460 / 796               | 238 / 119 / 68.7 A                             |             |             |
| LOCKED ROTOR AMPS (STARTING); 230 / 460 / 796 | 1670 / 835 / 482 A                             |             |             |
| NO LOAD CURRENT                               | 49 / 24.5 / 14.1 A                             |             |             |
| NEMA CODE LETTER                              | H                                              |             |             |
| EFFICIENCY / POWER FACTOR                     | <u>LOAD</u>                                    | <u>EFF.</u> | <u>P.F.</u> |
|                                               | 100%                                           | 87.5%       | 0.90        |
|                                               | 75%                                            | 88.5%       | 0.88        |
|                                               | 50%                                            | 89.1%       | 0.84        |
| DUTY CYCLE                                    | CONTINUOUS                                     |             |             |
| TORQUE                                        | <u>FULL LOAD</u>                               | <u>LRT</u>  | <u>BDT</u>  |
|                                               | 465 lb.ft.                                     | 290%        | 270%        |
| SLIP                                          | 5.80%                                          |             |             |
| NEMA DESIGN                                   | D                                              |             |             |
| MOMENT OF INERTIA                             | 88.3 lb.ft. <sup>2</sup>                       |             |             |
| MAX. TIME LOCKED ROTOR (Hot)                  | 10 Seconds                                     |             |             |
| MAX. AMBIENT TEMPERATURE                      | 40° C                                          |             |             |
| MAX. ELEVATION                                | 3300 Ft. Above Sea Level                       |             |             |
| TEMPERATURE RISE (At Full Load)               | 80° C                                          |             |             |
| DE BEARING                                    | NU318                                          |             |             |
| ODE BEARING                                   | 6313C3                                         |             |             |
| REGREASING INT. - DE BEARING                  | 4,300 Hours                                    |             |             |
| REGREASING INT. - ODE BEARING                 | 12,200 Hours                                   |             |             |
| GREASE TYPE                                   | Mobil Polyrex EM                               |             |             |
| MOUNTING                                      | F2                                             |             |             |
| ROTATION                                      | Bi-Directional                                 |             |             |
| SHAFT MATERIAL                                | 1045 Carbon Steel                              |             |             |
| CONNECTION DIAGRAM                            | 230 / 460 / 796 V - 12 Lead Δ                  |             |             |
| APPROXIMATE WEIGHT                            | 1798 lbs.                                      |             |             |
| INVERTER RATING                               | 10:1 CT / 20:1 VT PWM Type                     |             |             |





# WORLDWIDE ELECTRIC MOTOR DRAWING

## IOW-445T



### DIMENSIONS - INCHES

| MOUNTING |      |      |      |     | A  | B    | C    | D  | G    | J    | P     | O     | T    | AB    |
|----------|------|------|------|-----|----|------|------|----|------|------|-------|-------|------|-------|
| E        | 2F1  | 2F2  | H    | BA  |    |      |      |    |      |      |       |       |      |       |
| 9        | 14.5 | 16.5 | 0.81 | 7.5 | 22 | 20.5 | 44.5 | 11 | 1.38 | 3.35 | 23.43 | 22.97 | 3.46 | 19.41 |

| KEY   |      | KEYSET | SHAFT |       | TERMINAL BOX |      |       |       |       |
|-------|------|--------|-------|-------|--------------|------|-------|-------|-------|
| S     | ES   | R      | N-W   | U     | AA           | XB   | XC    | XD    | XF    |
| 0.875 | 6.91 | 2.88   | 8.5   | 3.375 | 2 x 3        | 5.67 | 11.73 | 11.34 | 15.75 |

REVISED - 02/01/16