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# Customer information packet

## IDCSWDM3714T

10HP, 1770RPM, 3PH, 60HZ, 215TC, 3756M, TEFC, F

Class - None

Division - Not Applicable

## Specifications

|                                |                                          |
|--------------------------------|------------------------------------------|
| Enclosure                      | TEFC                                     |
| Frame                          | 215TC                                    |
| Frame Material                 | Stainless Steel                          |
| Frequency                      | 60.00 Hz                                 |
| Haz Area Class and Group       | None                                     |
| Haz Area Division              | Not Applicable                           |
| Motor Letter Type              | Three Phase                              |
| Output @ Frequency             | 10.000 HP @ 60 HZ                        |
| Phase                          | 3                                        |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                         |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ       |
| Agency Approvals               | UR<br>CSA                                |
| Ambient Temperature            | 40 °C                                    |
| Auxiliary Box                  | NO AUXILLARY BOX                         |
| Auxiliary Box Lead Termination | None                                     |
| Base Indicator                 | Rigid                                    |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                  |
| Blower                         | None                                     |
| Current @ Voltage              | 12.500 A @ 460.0 V<br>25.000 A @ 230.0 V |
| Design Code                    | B                                        |
| Drip Cover                     | No Drip Cover                            |
| Duty Rating                    | CONT                                     |
| Efficiency @ 100% Load         | 92.4 %                                   |
| Electrically Isolated Bearing  | Not Electrically Isolated                |
| Feedback Device                | NO FEEDBACK                              |
| Front Face Code                | Standard                                 |
| Front Shaft Indicator          | None                                     |
| Heater Indicator               | No Heater                                |
| High Voltage Full Load Amps    | 12.5 a                                   |

## Part detail

|              |            |
|--------------|------------|
| Revision     | Z          |
| Type         | AC         |
| Mech. spec.  | 37H885     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 37WGT857   |
| Layout       | 37LYH885   |
| Eff. date    | 06-24-2021 |
| CD Diagram   | CD0180     |
| Poles        | 04         |
| Leads        | 9#14       |
| Proprietary  | False      |
| Created date | 10-25-2006 |

|                               |                            |
|-------------------------------|----------------------------|
| Insulation Class              | H                          |
| Inverter Code                 | Inverter Duty              |
| KVA Code                      | K                          |
| Lifting Lugs                  | Standard Lifting Lugs      |
| Locked Bearing Indicator      | Locked Bearing             |
| Max Speed                     | 6000 rpm                   |
| Motor Lead Exit               | Ko Box                     |
| Motor Lead Quantity/Wire Size | 9 @ 14 AWG                 |
| Motor Lead Termination        | Flying Leads               |
| Motor Standards               | NEMA                       |
| Motor Type                    | 3756M                      |
| Mounting Arrangement          | F1                         |
| Number of Poles               | 4                          |
| Overall Length                | 21.31 IN                   |
| Power Factor                  | 81                         |
| Product Family                | Wash Down Paint Free       |
| Pulley End Bearing Type       | Sealed Bearing             |
| Pulley Face Code              | C-Face                     |
| Pulley Shaft Indicator        | Standard                   |
| Rodent Screen                 | None                       |
| Service Factor                | 1.00                       |
| Shaft Diameter                | 1.375 IN                   |
| Shaft Extension Location      | Pulley End                 |
| Shaft Ground Indicator        | No Shaft Grounding         |
| Shaft Rotation                | Reversible                 |
| Shaft Slinger Indicator       | Shaft Slinger              |
| Speed                         | 1770 rpm                   |
| Speed Code                    | Single Speed               |
| Starting Method               | Direct on line             |
| Thermal Device - Bearing      | None                       |
| Thermal Device - Winding      | Normally Closed Thermostat |
| Vibration Sensor Indicator    | No Vibration Sensor        |
| Winding Thermal 1             | None                       |
| Winding Thermal 2             | None                       |

## Nameplate

| NP1608L      |              |    |     |   |         |       |         |   |  |
|--------------|--------------|----|-----|---|---------|-------|---------|---|--|
| CAT NO       | IDCSWDM3714T |    |     |   |         |       |         |   |  |
| SPEC.        | 37H885T857G1 |    |     |   |         |       |         |   |  |
| FRAME        | 215TC        |    | HP  |   | 10      | TE    |         |   |  |
| VOLTS        | 230/460      |    |     |   |         |       |         |   |  |
| MAG CUR      | 11/5.5       |    |     |   | FLA     |       | 25/12.5 |   |  |
| RPM          | 1770         |    |     |   | RPM MAX |       | 6000    |   |  |
| HZ           | 60           |    | PH  | 3 |         | CLASS |         | H |  |
| SER.F.       | 1.00         |    | DES | B |         | SL HZ |         | 1 |  |
| NEMA-NOM-EFF | 92.4         |    | WK2 |   | 1.38    |       |         |   |  |
| BLWR V       |              | PH |     |   | HZ      |       | A       |   |  |
| RATING       | 40C AMB-CONT |    |     |   |         |       |         |   |  |
| DE BRG       | 6307         |    |     |   | ODE BRG |       | 6206    |   |  |
| CC           | 010A         |    | SN  |   |         |       |         |   |  |



**AC Induction Motor Performance Data**  
 Record # 37139  
 Typical performance - not guaranteed values

|                          |                    |                        |
|--------------------------|--------------------|------------------------|
| <b>Winding:</b> 37WGT857 | <b>Type:</b> 3756M | <b>Enclosure:</b> TEFC |
|--------------------------|--------------------|------------------------|

| Nameplate Data    |              |          | General Characteristics at 460 V, 60 Hz:<br>High Volt Connection |  |            |  |  |
|-------------------|--------------|----------|------------------------------------------------------------------|--|------------|--|--|
| Rated Output (HP) | 10           |          | Full Load Torque                                                 |  | 29.9 LB-FT |  |  |
| Volts             | 230/460      |          | Start Configuration                                              |  | DOL        |  |  |
| Full Load Amps    | 25/12.5      |          | Break Down Torque                                                |  | 102 LB-FT  |  |  |
| R.P.M.            | 1770         |          | Pull-Up Torque                                                   |  | 53.6 LB-FT |  |  |
| Hz                | 60           | Phase    | Locked-rotor Torque                                              |  | 74.2 LB-FT |  |  |
| NEMA Design Code  | B            | KVA Code | Starting Current                                                 |  | 105 Amps   |  |  |
| Service Factor    | 1            |          | No-load Current                                                  |  | 5.44 Amps  |  |  |
| NEMA Nom. Eff.    | 92.4         | P.F.     | Line-line Res. @ 25°C.                                           |  | 0.799 Ohms |  |  |
| Rating - Duty     | 40C AMB-CONT |          | Temp. Rise @ Rated Load                                          |  | 76°C       |  |  |
| S.F. Amps         |              |          | Temp. Rise @ S.F. Load                                           |  |            |  |  |

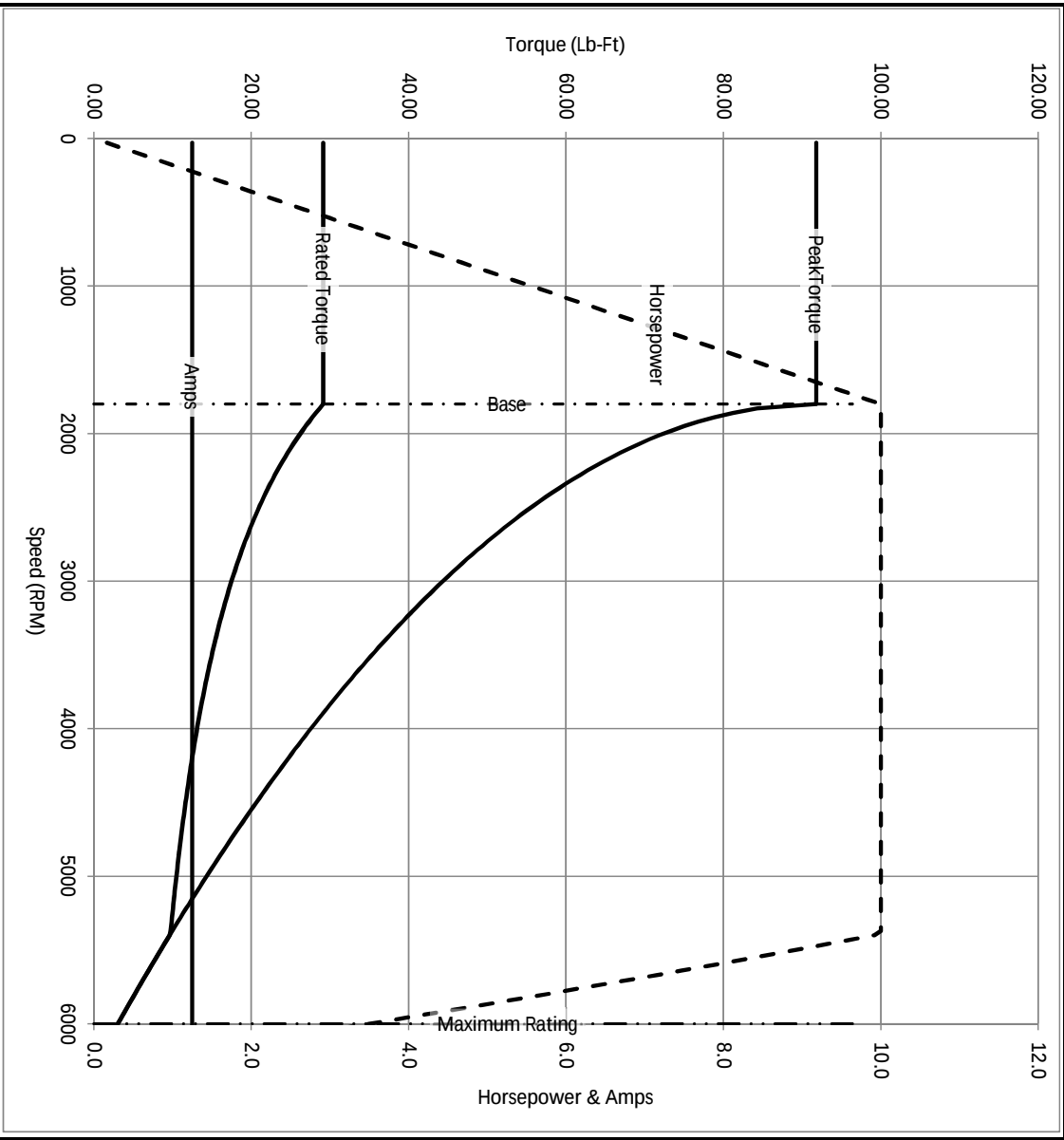
Load Characteristics at 460 Volts, 60 Hz, 10 HP

|                 |      |      |      |      |      |      |      |
|-----------------|------|------|------|------|------|------|------|
| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
| Power Factor    | 43   | 65   | 76   | 81   | 83   | 84   |      |
| Efficiency      | 88   | 92.6 | 93.3 | 93   | 92.4 | 91.5 |      |
| Speed           | 1793 | 1786 | 1778 | 1770 | 1762 | 1752 |      |
| Line Amperes    | 6.18 | 7.79 | 10   | 12.5 | 15.3 | 18.3 |      |

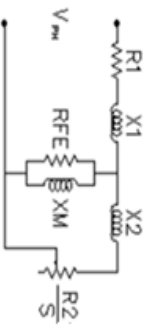
Baldor Electric Company Fort Smith, Arkansas



|            |              |                          |         |                                       |      |                                                   |
|------------|--------------|--------------------------|---------|---------------------------------------|------|---------------------------------------------------|
| Catalog    | IDCSWDM3714T | NP VOLTS                 | 230/460 | ENCLOSURE                             | TEFC | WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C) |
| FRAME      | 215TC        | NP AMPS                  | 25/12.5 | Base Volts                            | 460  | R1 0.423 X1 1.876                                 |
| HP         | 10 HP        | DUTY                     | Cont    | Base AMPS                             | 12.5 | R2 0.300 X2 1.587                                 |
| BASE SPEED | 1800         | MAX SAFE RPM             | 6000    | Slip Hz                               | 1.00 | XM 44.849                                         |
| PHASE/HZ   | 3/60         | AMB <sup>0</sup> C/INSUL | 40/H    | WK <sup>2</sup> (lb-ft <sup>2</sup> ) | 1.38 |                                                   |



Remarks: Calculated Data



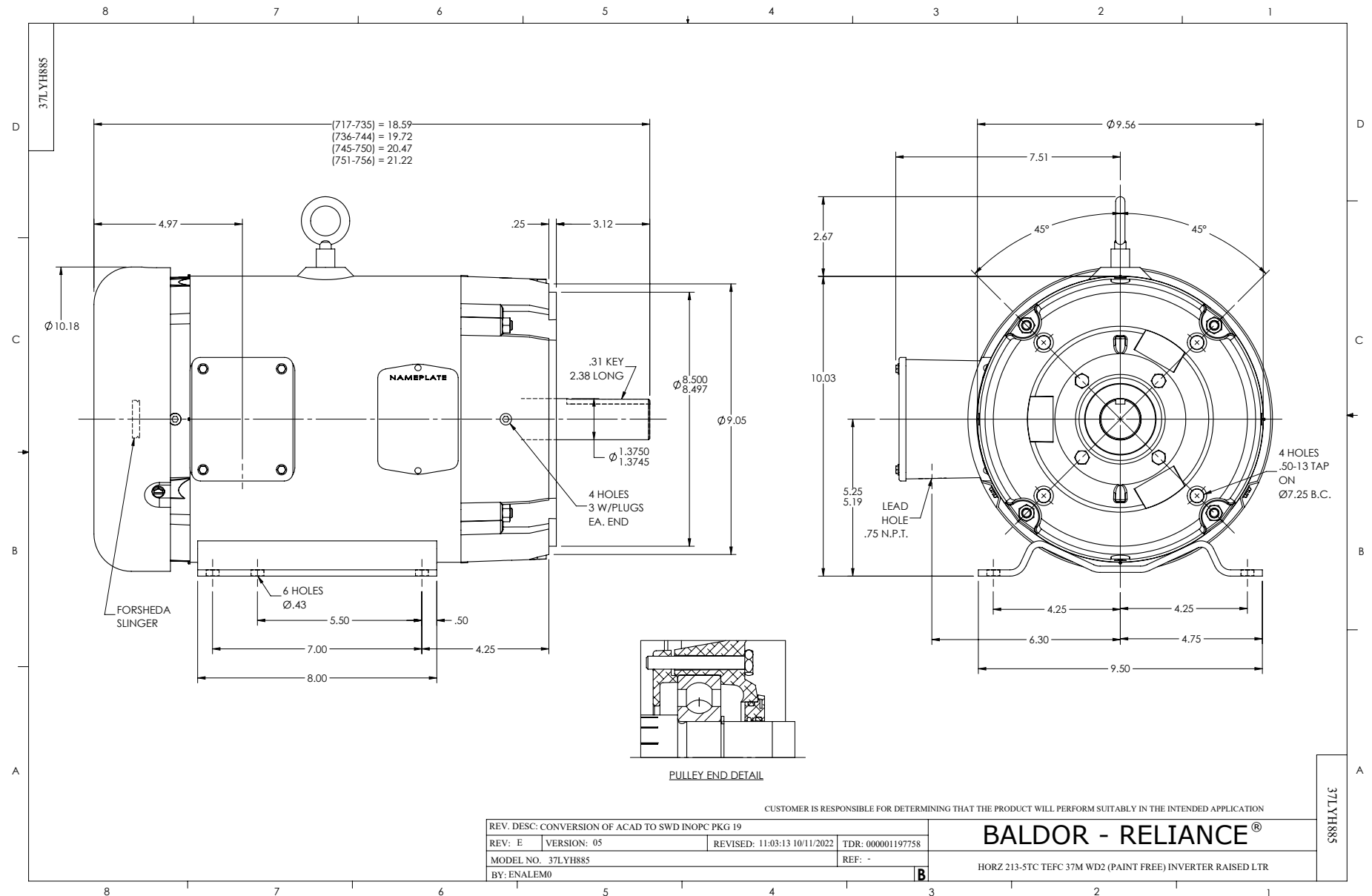
**BALDOR**  
A MEMBER OF THE ABB GROUP

DR BY ENR  
CK BY  
APP BY ENR  
DATE 3/6/2013

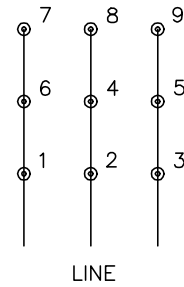
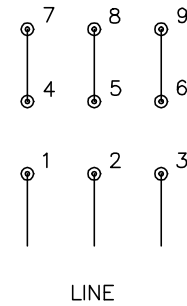
A-C MOTOR  
PERFORMANCE CURVES

37H885T857G1

ISSUE DATE 3/6/2013



CD0180

LOW VOLTAGE  
(2D)HIGH VOLTAGE  
(1D)

## NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0180

REV. DESC: ADD CLASS CONN00000007

REV. LTR: D

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\148

REVISED: 10: 25: 29 02/19/2019

BY: ENBRIRO

MTL: —

**BALDOR - RELIANCE®**

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1