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# Washdown Motors

**Model No:** 215TTWWD16027
**Catalog No:** 141268.00M

Washdown Motor, 10 & 7.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 215TCVZ Frame, TEFC

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## Product Information Packet: Model No: 215TTWWD16027, Catalog No: 141268.00M  Washdown Motor, 10 & 7.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 215TCVZ Frame, TEFC

### Nameplate Specifications

| | | | |
|---|---|---|---|
| Phase | **3** | Output HP | **10 & 7.50 Hp** |
| Output KW | **7.5 & 5.6 kW** | Voltage | **230/460 & 190/380 V** |
| Speed | **1760 & 1475 r/min** | Synchronous RPM | **1800 & 1500 r/min** |
| Service Factor | **1.15 & 1.15** | Frame | **215TCVZ** |
| Enclosure | **Totally Enclosed Fan Cooled** | Thermal Protection | **No Protection** |
| Efficiency | **91.7 & 89.5 %** | Ambient Temperature | **40 °C** |
| Frequency | **60 & 50 Hz** | Current | **26.4/13.2 & 27.4/13.7 A** |
| Power Factor | **77.5** | Duty | **Continuous** |
| Insulation Class | **F** | Design Code | **B** |
| KVA Code | **H** | Drive End Bearing Size | **6309** |
| Opp Drive End Bearing Size | **6206** | UL | **Recognized** |
| CSA | **Y** | CE | **Y** |
| IP Code | **55** | Number of Speeds | **1** |

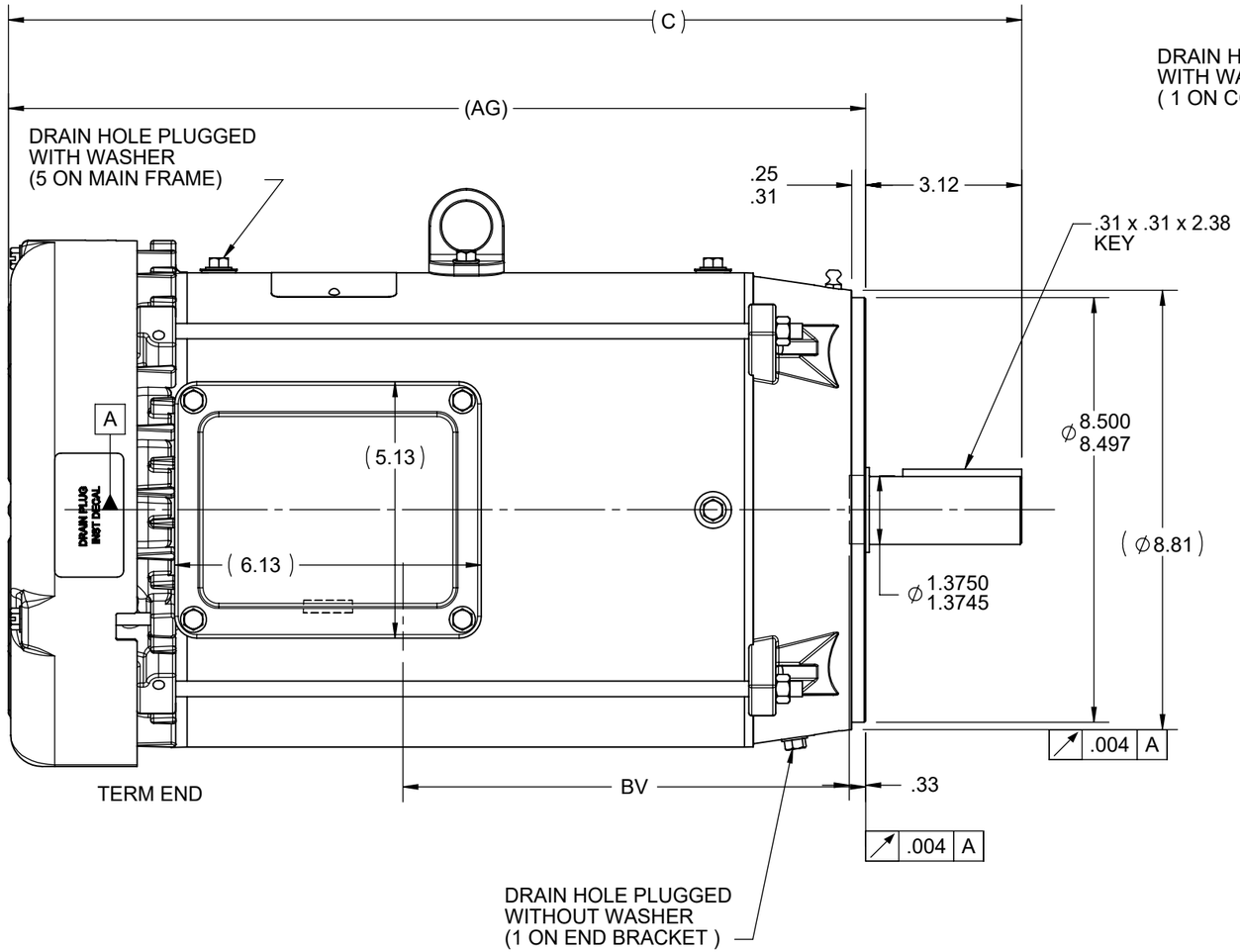
### Technical Specifications

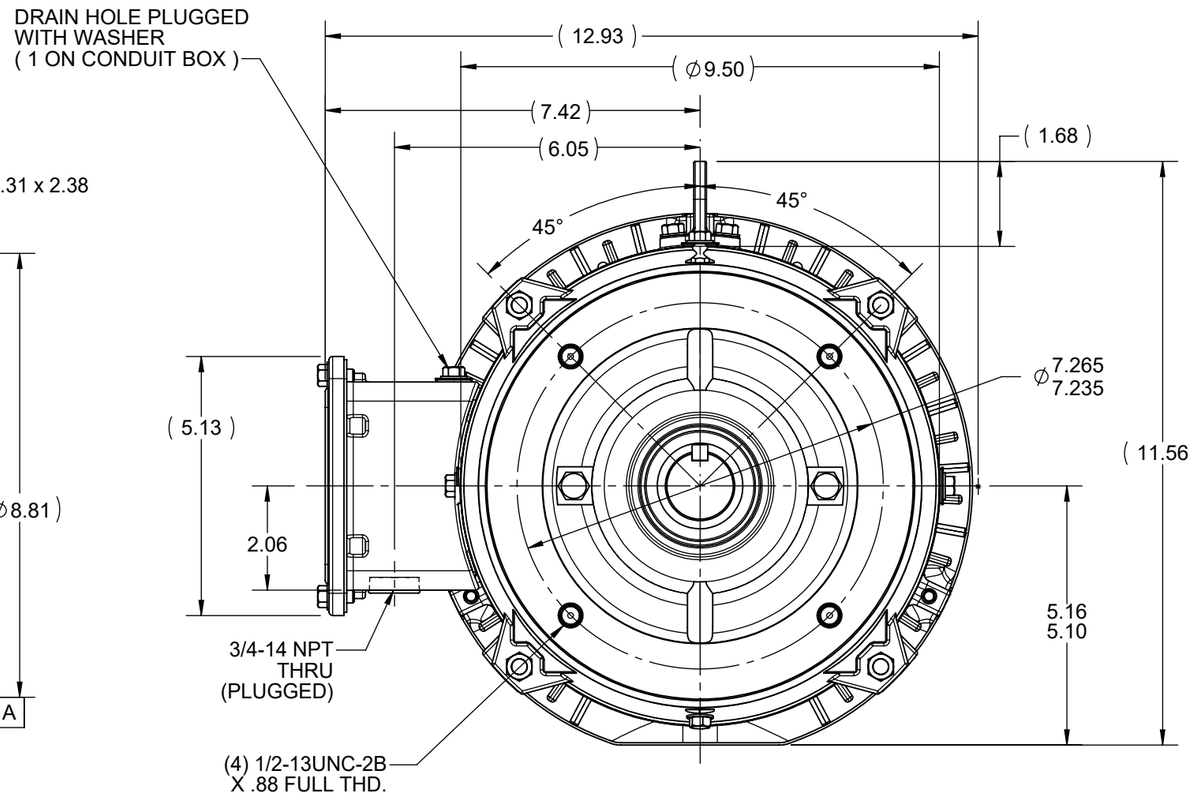
| | | | |
|---|---|---|---|
| Electrical Type | **Squirrel Cage Inverter Rated** | Starting Method | **Line Or Inverter** |
| Poles | **4** | Rotation | **Reversible** |
| Resistance Main | **.9 O** | Mounting | **Round** |
| Motor Orientation | **Horizontal Or Shaft Down** | Drive End Bearing | **Ball** |
| Opp Drive End Bearing | **Ball** | Frame Material | **Rolled Steel** |
| Shaft Type | **T** | Overall Length | **20.27 in** |
| Frame Length | **11.15 in** | Shaft Diameter | **1 3/8 in** |
| Shaft Extension | **3.40 in** | Assembly/Box Mounting | **F1 Only** |
| Inverter Load | **Constant 10:1** | | |

### Drawings

| | | | |
|---|---|---|---|
| Connection Drawing | **005010.01ME** | Outline Drawing | **038049-1115** |

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NOTES:
1- NAMEPLATE TO BE READ FROM OPPOSITE SHAFT END
2- C'BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING
BRACKETS AND TURNING FRAME 180 DEGREES (EXCEPT AS NOTED).

| DASH | FRAME | C | BV | AG | MOUNTING |
|---|---|---|---|---|---|
| 965 | 213/15T | 18.77 | 9.26 | 15.65 | |
| 1115 | 213/15T | 20.27 | 10.76 | 17.15 | |
| 1240 | 215T | 21.52 | 12.01 | 18.40 | F1 ONLY |

| DRAWING REVISION | REVISION BY | REV DATE/© DATE |
|---|---|---|
| C | VS | 18TH AUG 25 |
| REQUEST NUMBER | APPROVED BY | DATE |
| NMR-0238157 | VS | 18TH AUG 25 |

REQUEST NUMBER DESCRIPTION
SEALING WASHER REMOVED FOR BRACKETS

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TOLERANCES (EXCEPT AS NOTED):

| DEC. | INCH | mm | ANGLE |
|---|---|---|---|
| .X | ±0.1 | [±3] | ±0.5° |
| .XX | ±0.03 | [±0.8] | |
| .XXX | ±0.005 | [±0.13] | |
| .XXXX | ±0.0005 | [±0.013] | |

REMOVE BURRS & BREAK SHARP
EDGES: .003/.015 [.08/.38] X 45°
CORNER FILLETS: R.02 [.5]
MACHINED SURFACES: 125 INCH / 3.2 mm
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

| | |
|---|---|
| DRAWN BY | SL |
| DATE | 11/05/2015 |
| APPROVED BY | SR |
| DATE | 11/05/2015 |
| REFERENCE | |
| THIRD ANGLE PROJECTION | |

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DESCRIPTION
OUTLINE
WASHDOWN 210FR-TEFC-C-FACE-3PH-ROUND

| MATERIAL | PROCESS/FINISH |
|---|---|
| | |

| SIZE | DRAWING NUMBER | SHEET |
|---|---|---|
| B | 038049 | 1 OF 1 |

# Data Sheet

**Date:** 12/5/2018
**Customer:**
**Attention:**
**Submitted by:** FAREEDA DUDEKULA

marathon® electric

215TTWWD16027

**Submittal**

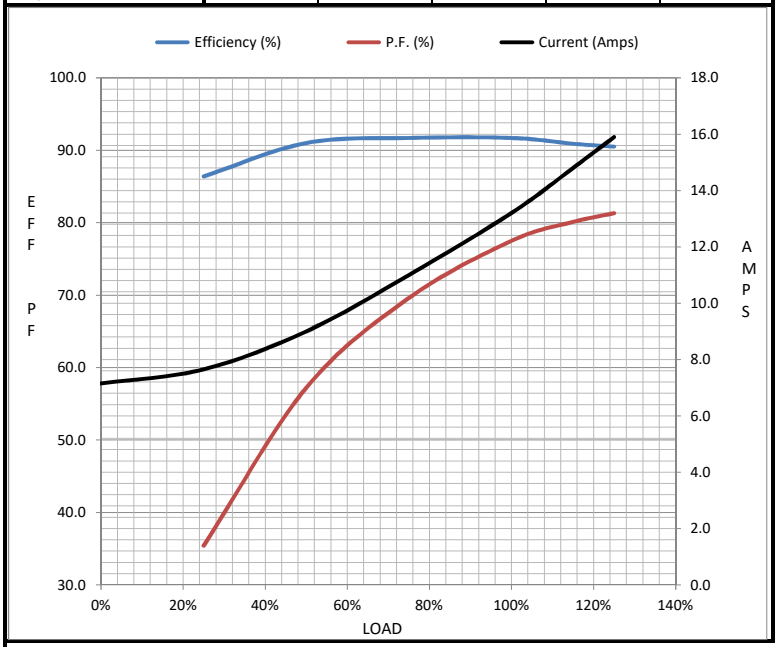
Data @ 460 V

## Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR | |
|---|---|---|---|---|---|---|---|---|---|
| Current (Amps) | 7.2 | 7.7 | 9.0 | 11.0 | 13.2 | 14.8 | 15.9 | 81.0 | |
| Torque (ft-lb) | 0.00 | 7.3 | 14.8 | 22.3 | 29.9 | 34.5 | 37.6 | 76.0 | |
| RPM | 1800 | 1790 | 1780 | 1770 | 1760 | 1,754 | 1747 | 0 | |
| Efficiency (%) | | 86.4 | 91.0 | 91.7 | 91.7 | 90.9 | 90.5 | | |
| P.F. (%) | 4.8 | 35.4 | 57.2 | 69.6 | 77.5 | 80.1 | 81.3 | 42.0 | |

## Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|---|---|---|---|---|---|
| Speed (RPM) | 0 | 900 | 1575 | 1760 | 1800 |
| Current (Amps) | 81.0 | 78.0 | 51.0 | 13.2 | 7.2 |
| Torque (ft-lb) | 76.0 | 70.0 | 90.0 | 29.9 | 0.00 |




## Information Block

| | | |
|---|---|---|
| HP | 10.0 | |
| Sync. RPM | 1800 | |
| Frame | 215 | |
| Enclosure | TEFC | |
| Construction | TFR | |
| Voltage | 230/460#190/380 | V |
| Frequency | 60 | Hz |
| Design | B | |
| LR Code letter | H | |
| Service Factor | 1.15 | |
| Temp Rise @ FL | 65 | ° C |
| Duty | CONT | |
| Ambient | 40 | ° C |
| Elevation | 1,000 | feet |
| Rotor/Shaft wk² | 1.10 | Lb-Ft² |
| Ref Wdg | K2154513 NONE | |
| Sound Pressure @ 1M | 62 | dBA |
| VFD Rating | NONE | |
| Outline Dwg | 038049-1115 | |
| Conn. Diag | 005010.01 | |
| Additional Specifications: | | |
| 0 | | |
| 0 | | |

EQUIV CKT (OHMS / PHASE)

| R1 | R2 | X1 | X2 | Xm |
|---|---|---|---|---|
| 0.5840 | 0.5050 | 1.7640 | 2.1360 | 36.0320 |

