

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 326TTDC6076

Catalog No: U799

General Purpose Motor, 30 & 25 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V, 1200 & 1000 RPM,
326T Frame, DP



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RegalRexnord

Nameplate Specifications

| | | | |
|------------------------|----------------------------|----------------------------|-------------------------|
| Phase | 3 | Output HP | 30 & 25 Hp |
| Output KW | 22.4 & 18.7 kW | Voltage | 208-230/460 & 190/380 V |
| Speed | 1190 & 990 rpm | Service Factor | 1.15 & 1.15 |
| Frame | 326T | Enclosure | Drip Proof |
| Thermal Protection | No Protection | Efficiency | 93.6 & 77 % |
| Ambient Temperature | 40 °C | Frequency | 60 & 50 Hz |
| Current | 86.3 - 78/39 & 78.6/39.3 A | Power Factor | 76.6 |
| Duty | Continuous | Insulation Class | F |
| Design Code | B | KVA Code | G |
| Drive End Bearing Size | 6312 | Opp Drive End Bearing Size | 6312 |
| UL | Recognized | CSA | Y |
| CE | Y | IP Code | 12 |
| Number of Speeds | 1 | | |

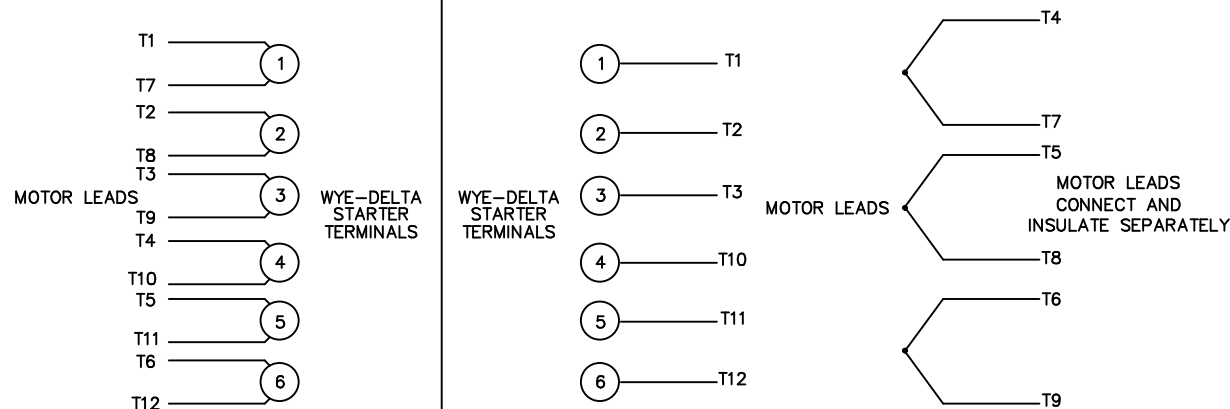
Technical Specifications

| | | | |
|-----------------------|-----------------------------|--------------------|---------------------|
| Electrical Type | Squirrel Cage Induction Run | Starting Method | Wye Start Delta Run |
| Poles | 6 | Rotation | Reversible |
| Resistance Main | .2 Ohms | Mounting | Rigid Base |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Cast Iron |
| Shaft Type | T | Overall Length | 27.52 in |
| Shaft Diameter | 2.130 in | Shaft Extension | 5.25 in |
| Assembly/Box Mounting | F1 ONLY | | |
| Outline Drawing | 16955460ME | Connection Drawing | 004172-01ME |

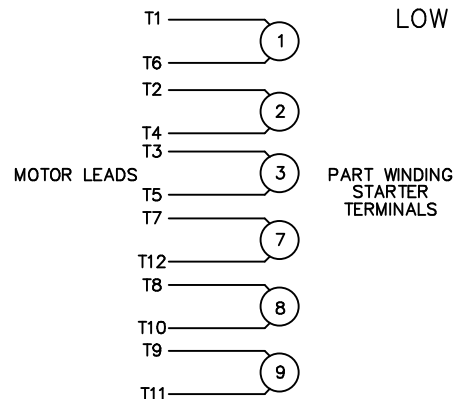
WYE - DELTA STARTING USEABLE ON 2, 4 AND 6 POLE MOTORS.

LOW VOLTAGE CONNECTION

HIGH VOLTAGE CONNECTION



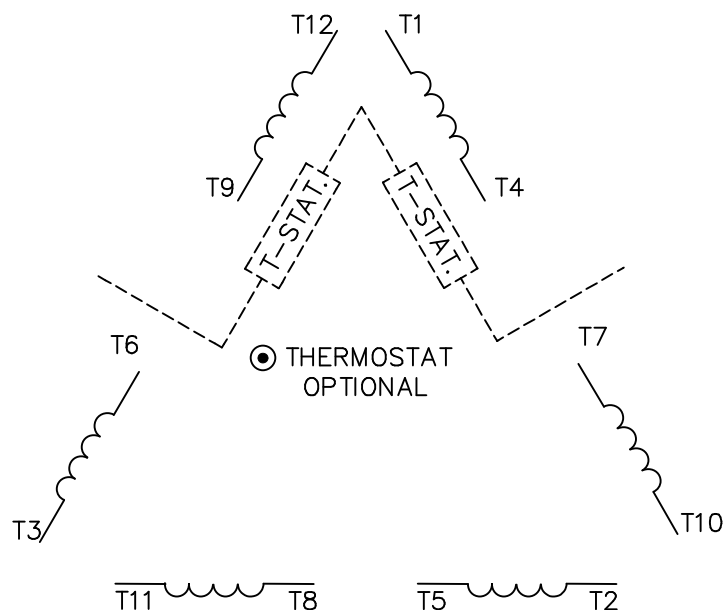
REFER TO THE WYE-DELTA STARTER CONNECTION INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

PART WINDING START USABLE ON 4 & 6 POLE MOTORS
LOW VOLTAGE CONNECTION ONLY

REFER TO THE PART WINDING STARTER INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

REFER TO THE CUTLER-HAMMER OR EQUIV. FOR PROPER SELECTION OF OVERLOAD HEATER COILS.

LINE LEADS



ROTATION CAN BE REVERSED BY INTERCHANGING ANY TWO LINE LEADS
● RED LEADS OR P1, P2, FOR N/C THERMOSTAT

ACROSS THE LINE START & RUN

| | LINE 1 | LINE 2 | LINE 3 | JOIN & INSULATE SEPARATELY |
|-----------|-----------------|-----------------|-----------------|----------------------------|
| HIGH VOLT | T1,T12 | T2,T10 | T3,T11 | (T4,T7) (T5,T8) (T6,T9) |
| LOW VOLT | T1,T6 T7,T12 | T2,T4 T8,T10 | T3,T5 T9,T11 | |

TOLERANCES
UNLESS SPECIFIED

DEC. INCHES

.X ±.1

.XX ±.02

.XXX ±.005

.XXXX ±.0005

ANG ±7'30"



TITLE DELTA - WYE CONNECTION DIAGRAM

MAT'L.

FINISH

DRAWN RJW 07-19-2007

CHK ML 07-19-2007

APPD GK 07-19-2007

SCALE 1=1

REF MU61151

FMF

PREV

NO.

REVISION

BY & DATE

CHK

RFP 07-19-2007

DIST LB

CAD FILE 004172-01ME

SIZE

A

DRAWING NO. PAGE 1 OF 1

004172-01ME

REV.

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CERTIFICATION DATA SHEET

Model#: 326TTDC6076 AA

WINDING#: T16106014 DR 3

CONN. DIAGRAM: 004172-01ME

ASSEMBLY: F1 ONLY

OUTLINE: 16955460ME

TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|-------|-----------|-----------|----------|-------|-----------|----------|--------|
| 30&25 | 22.4&18.7 | 1200 | 1190&990 | 326T | DP | G | B |

| PH | Hz | VOLTS | FL AMPS | START TYPE | DUTY | INSL | S.F | AMB°C | ELEVATION |
|----|-------|-----------------------------|-------------------------------|------------------------|----------------|------|-----------|-------|-----------|
| 3 | 60/50 | 208- 230/460#190/ 380 | 86.3 - 78/39&78.6/39 .3 | WYE START DELTA RUN | CONTINUOU S | F2 | 1.15/1.15 | 40 | 3300 |

| | | | | | |
|---------------------------|--------------------|--------------------|----------|-----------------|--------------|
| FULL LOAD EFF: 93.6&77 | 3/4 LOAD EFF: 93.6 | 1/2 LOAD EFF: 92.4 | GTD. EFF | ELEC. TYPE | NO LOAD AMPS |
| FULL LOAD PF: 76.6&93 | 3/4 LOAD PF: 71 | 1/2 LOAD PF: 61.9 | 93 | SQ CAGE IND RUN | 33 / 16.5 |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|-------------|-------------------|---------------|---------------|-------------|
| 133 LB-FT | 434 / 217 | 227 LB-FT 171 | 269 LB-FT 202 | 30 |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS /HOUR | APPROX. MOTOR WGT |
|---------------------------|-------------|------------|-----------|-----------------|-----------------|----------------------|
| 55 dBA | 65 dBA | - LB-FT^2 | - LB-FT^2 | 15 SEC. | 2 | - LBS. |

*** SUPPLEMENTAL INFORMATION ***

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT |
|--------------------|---------------------|---------------|-------------|----------------|-----------------------|---------------|---------|------------------|
| STANDARD | STANDARD | RIGID | HORIZONTAL | FALSE | NONE | FALSE | NONE | BLUE (ENAMEL) |

| BEARINGS | | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL | FRAME MATERIAL |
|----------|------|------------|------------|------------|-------------|----------------------------|-------------------|
| DE | OPE | | | | | | |
| BALL | BALL | POLYREX EM | T | NONE | NONE | 1045 HOT ROLLED (C-204) | CAST IRON |
| 6312 | 6312 | | | | | | |

| THERMO-PROTECTORS | | | | THERMISTORS | CONTROL | SPACE /n HEATERS |
|-------------------|------------|----------|----------|-------------|---------|------------------|
| THERMOSTATS | PROTECTORS | WDG RTDs | BRG RTDs | | | |
| NONE | NOT | NONE | NONE | NONE | FALSE | NONE VOLTS |

If Inverter equals NONE, contact factory for further information

| | |
|---------------------------------|----------------------------|
| * N O T E S * | INVERTER TORQUE: NONE |
| | INV. HP SPEED RANGE: NONE |
| | ENCODER: NONE |
| | NONE NONE NONE NONE PPR |
| | BRAKE: NONE NONE |
| | NONE P/N NONE |
| | NONE NONE |
| | NONE FT-LB NONE V NONE Hz |

DATE: 06/21/2017 06:40:54 AM
FORM 3531 REV.3 02/07/99

** Subject to change without notice.

Data Sheet

Date: 12/13/2018

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



326TTDC6076

Submittal

Data @ 460 V

Motor Load Data

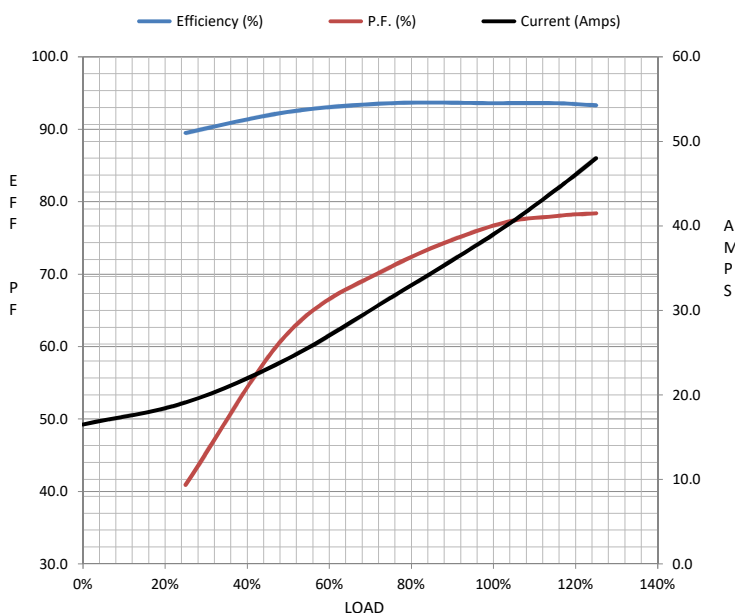
| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR | |
|----------------|------|------|------|------|------|-------|------|-----|--|
| Current (Amps) | 16.5 | 19.1 | 24.3 | 31.5 | 39.0 | 44.2 | 48.0 | 217 | |
| Torque (ft-lb) | 0.00 | 32.7 | 65.7 | 94.5 | 133 | 152 | 166 | 227 | |
| RPM | 1200 | 1198 | 1195 | 1192 | 1190 | 1,188 | 1185 | 0 | |
| Efficiency (%) | | 89.5 | 92.4 | 93.6 | 93.6 | 93.6 | 93.3 | | |
| P.F. (%) | 4.2 | 40.9 | 61.9 | 71.0 | 76.7 | 78.0 | 78.4 | 0.0 | |

Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|----------------|-----|---------|------|-------|------|
| Speed (RPM) | 0 | 800 | 1185 | 1190 | 1200 |
| Current (Amps) | 217 | 182 | 154 | 39.0 | 16.5 |
| Torque (ft-lb) | 227 | 170 | 269 | 133 | 0.00 |

Information Block

| | | | | |
|----------------------------|---------------------|--------|--------|--------|
| HP | 30.0 | | | |
| Sync. RPM | 1200 | | | |
| Frame | 326 | | | |
| Enclosure | DP | | | |
| Construction | TDS | | | |
| Voltage | 208-230/460#190/380 | V | | |
| Frequency | 60 | Hz | | |
| Design | B | | | |
| LR Code letter | G | | | |
| Service Factor | 1.15 | | | |
| Temp Rise @ FL | 28 | ° C | | |
| Duty | CONT | | | |
| Ambient | 40 | ° C | | |
| Elevation | 1,000 | feet | | |
| Rotor/Shaft wk² | 0.00 | Lb-Ft² | | |
| Ref Wdg | T16106014 | DR | | |
| Sound Pressure @ 1M | 55 | dBA | | |
| VFD Rating | NONE | | | |
| Outline Dwg | 16955460ME | | | |
| Conn. Diag | 004172-01ME | | | |
| Additional Specifications: | | | | |
| 0 | | | | |
| 0 | | | | |
| EQUIV CKT (OHMS / PHASE) | | | | |
| R1 | R2 | X1 | X2 | Xm |
| 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |



Speed -Torque Curve

