

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 286TTDR14081

Catalog No: M819A

20 HP Vertical Solid Shaft P-Base Motor, 3 phase, 1200 RPM, 230/460 V, 286HPV Frame, ODP
Vertical Solid Shaft P-Base Motors

Regal and Marathon are trademarks of Regal Beloit Corporation or one of its affiliated companies.
©2020 Regal Beloit Corporation, All Rights Reserved. MC017097E

REGAL

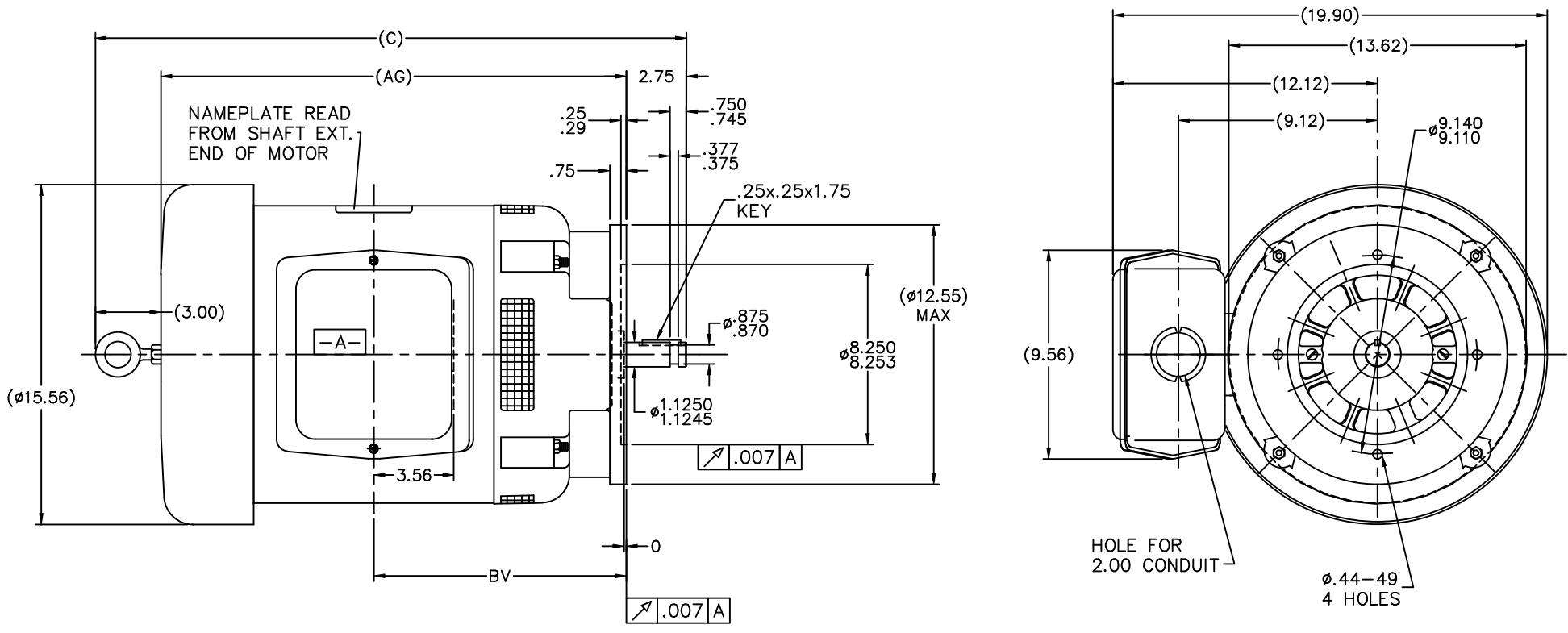
Nameplate Specifications

| | | | |
|------------------------|-------------------|----------------------------|-------------------|
| Output HP | 20 Hp | Output KW | 14.9 kW |
| Frequency | 60 Hz | Voltage | 230/460 V |
| Current | 53/26.5 A | Speed | 1165 rpm |
| Service Factor | 1.15 | Phase | 3 |
| Efficiency | 91 % | Power Factor | 79 |
| Duty | Continuous | Insulation Class | F |
| Design Code | B | KVA Code | G |
| Frame | 286HPV | Enclosure | Drip Proof |
| Thermal Protection | No | Ambient Temperature | 40 °C |
| Drive End Bearing Size | 6311 | Opp Drive End Bearing Size | 6210 |
| UL | Recognized | CSA | Y |
| CE | Y | IP Code | 22 |

Technical Specifications

| | | | |
|-----------------------|------------------------|-----------------------|------------------------|
| Electrical Type | SQ CAGE IND RUN | Starting Method | Across The Line |
| Poles | 6 | Rotation | Reversible |
| Resistance Main | 0.565 Ohms | Mounting | Round |
| Motor Orientation | Shaft Down | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Rolled Steel |
| Shaft Type | HP | Overall Length | 29.56 in |
| Frame Length | 13.50 in | Shaft Diameter | 1.880 in |
| Shaft Extension | 2.75 in | Assembly/Box Mounting | F1/F2 Capable |
| Connection Drawing | A-EE7308 | Outline Drawing | B-SS28183-1350 |

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:03/11/2020



- NOTE:
 1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. NAMEPLATE TO BE READ FROM SHAFT EXT. END OF MOTOR

| DASH | FRAME | AG | C | BV |
|------|---------|-------|-------|-------|
| 1100 | 284/6HP | 21.31 | 27.06 | 11.56 |
| 1250 | 284/6HP | 22.81 | 28.56 | 12.31 |
| 1350 | 284/6HP | 23.81 | 29.56 | 12.81 |

| | | | | TOLERANCES UNLESS SPECIFIED | | MARATHON ELECTRIC | DRAWN NJS 12-29-1999 | |
|--|-------------------------------------|----------------|-------|-----------------------------|--------|--|----------------------|--------------------------|
| NO. | REVISION | BY & DATE | CHK | ANG | FINISH | | CHK | ML |
| 10 | REDRAWN IN AUTOCAD | TAT 07-22-2004 | ML | .X | ±.1 | TITLE OUTLINE-"P" FLG.-NEMA SHAFT EXT. 280 HP FR.-BB-TS-VERT. DR. PR. | CHK | ML 12-29-1999 |
| 9 | REVISED TO NEC CONDUIT BOX CN 28428 | NJS 02-18-2000 | .XX | ±.03 | APPD | | GK 12-29-2000 | |
| 8 | ADDED 286 FR. TO DASH 1100 MU28622 | MJD 02-10-2000 | .XXX | ±.005 | SCALE | | 7-32 | |
| 7 | REDRAWN ON CADD - WAS "A" SIZE | NJS 12-29-1999 | .XXXX | ±.0005 | REF | | | |
| THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT | | | | | | MATL | FMF | |
| | | | | | | PREV | | |
| | | | | | | CAD FILE ss28183 | SIZE | DRAWING NO. PAGE OF REV. |
| | | | | | | DIST LB | B | SS28183 10 |

EE7308

THREE PHASE
DUAL VOLTAGE MOTOR



VIEW OF TERMINAL END

REF.
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G
T6BZ, T2B, T6BL, T4AV, T6B, T4B

OPTIONAL CORD
CONNECTION

L1 — WHITE
L2 — RED
L3 — BLACK

| NO. | REVISION | BY & DATE | CHK | ANG | TOLERANCES UNLESS SPECIFIED | | FINISH | DRAWN RM 11/20/1990 | | | | |
|--|--|----------------|-----|-------|--------------------------------|--------|--------------------------|---------------------|--------|--------------------|-----------|--------|
| | | | | | DEC. | INCHES | | | | | | |
| 5 | CHG TO REGAL LOGO | SL 09/10/2015 | AB | | | | | CHK ML 11/21/1990 | | | | |
| 4 | REVISED IEC NOTATIONS | MSG 11/15/2011 | CMN | .X | ±.1 | | | APPD SAS 04/24/2003 | | | | |
| 3 | ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194 | MSG 5/10/2010 | MJS | .XX | ±.02 | | TITLE CONNECTION DIAGRAM | SCALE 1=1 | | | | |
| 2 | ADDED THE OPTIONAL CORD CONNECTION MU46318 | RDH 04/24/2003 | DRS | .XXX | ±.005 | | 3Ø - DUAL VOLTAGE MOTOR | REF | | | | |
| 1 | REDRAWN | RM 11/20/1990 | | .XXXX | ±.0005 | | MAT'L. | FMF | | | | |
| | | | | | ±7'30" | | | PREV | | | | |
| THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT | | | | | | | RFP | CAD FILE ee7308 | SIZE A | DRAWING NO. EE7308 | PAGE OF 5 | REV. 5 |
| | | | | | | | DIST WP | | | | | |

