

PRODUCT INFORMATION PACKET

Model No: 145TTTN16629
Catalog No: E654A
2 HP Severe Duty Motor, 3 phase, 1800 RPM, 460 V, 145T Frame, TENV
Other Severe Duty Motors



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REGAL



Nameplate Specifications

| | | | |
|------------------------|-----------------------|----------------------------|--|
| Output HP | 2 Hp | Output KW | 1.5 kW |
| Frequency | 60 Hz | Voltage | 460 V |
| Current | 3.0 A | Speed | 1740 rpm |
| Service Factor | 1.15 | Phase | 3 |
| Efficiency | 86.5 % | Power Factor | 78 |
| Duty | Continuous | Insulation Class | F |
| Design Code | B | KVA Code | N |
| Frame | 145T | Enclosure | Totally Enclosed Non Ventilated |
| Thermal Protection | No | Ambient Temperature | 40 °C |
| Drive End Bearing Size | 6205 | Opp Drive End Bearing Size | 6203 |
| UL | Recognized | CSA | Y |
| CE | Y | IP Code | 54 |
| Hazardous Location | DIVISION 2 T2B | | |

Technical Specifications

| | | | |
|-----------------------|-------------------------------------|-----------------------|-------------------------|
| Electrical Type | Squirrel Cage Inverter Rated | Starting Method | Line Or Inverter |
| Poles | 4 | Rotation | Reversible |
| Resistance Main | 6.51 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 | 11.43 in |
| Frame Length | 6.25 in | Shaft Diameter | 0.875 in |
| Shaft Extension | 2.56 in | Assembly/Box Mounting | F1/F2 CAPABLE |
| Outline Drawing | A-100658-625 | Connection Drawing | EE7300 |

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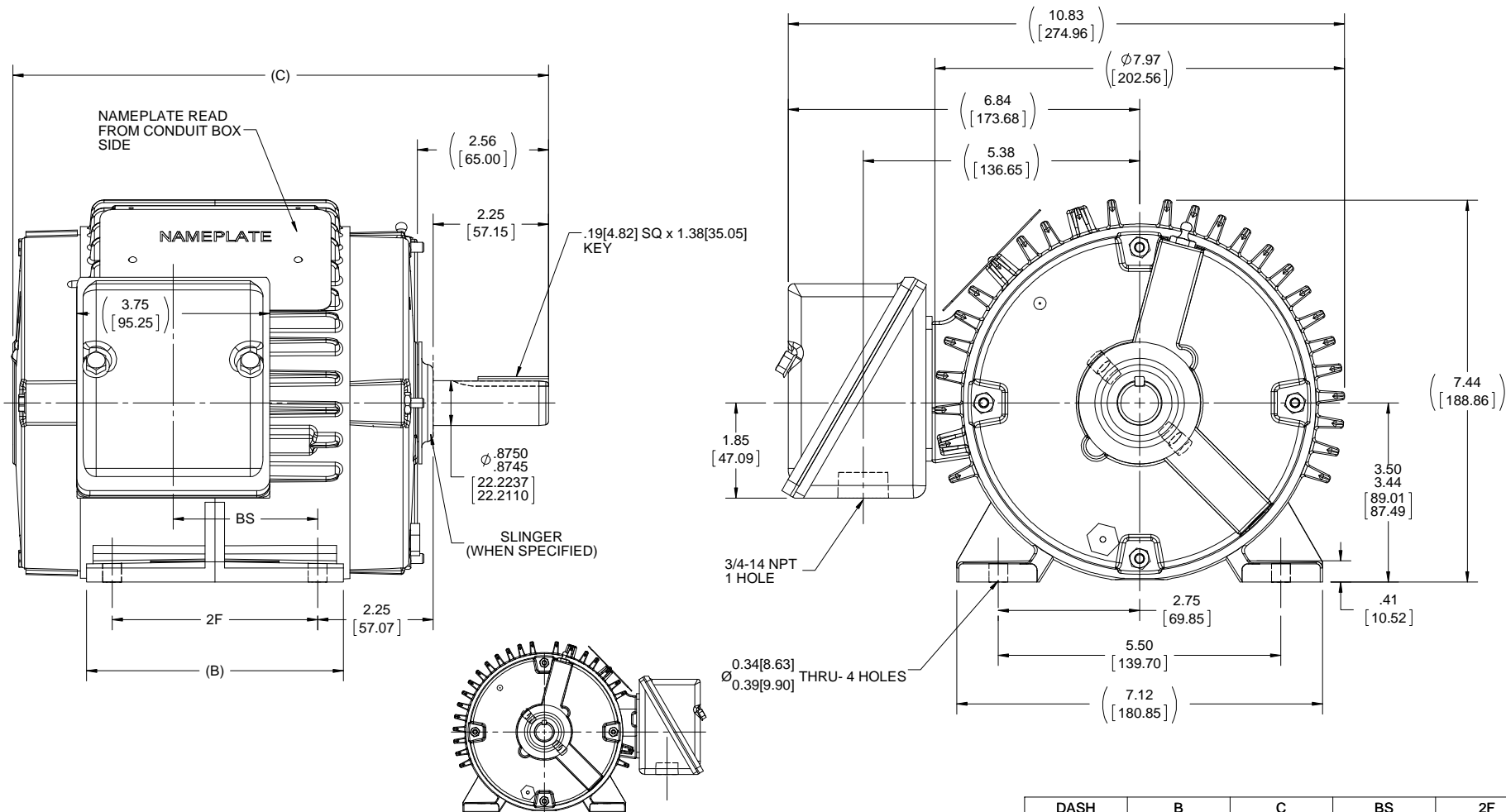
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| DASH | B | C | BS | 2F |
|------|---------------|----------------|--------------|---------------|
| 525 | 5.00 [127.00] | 10.43 [264.92] | 2.81 [71.37] | 4.00 [101.60] |
| 625 | 6.00 [152.4] | 11.43 [29.32] | 3.81 [96.77] | 5.00 [127.00] |

| | | | |
|--|-------------------------|--------------------|---|
| DRAWING REVISION C | REVISION BY H. ADIKE | DATE 06/25/2018 | TOLERANCES UNLESS OTHERWISE SPECIFIED: DEC. INCH mm ANGLE -X ±0.1 [+2.5] ±7-30° .XX ±0.03 [+0.76] .XXX ±0.005 [+0.127] .XXXX ±0.0005 [+0.0127] |
| ECO ECO-0147607 | APPROVED BY PST | DATE 06/25/2018 | REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [076/.381] X 45° CORNER FILLETS: R.02 [51] MACHINED SURFACES: 200 INCH mm 5.1 mm SHOWN IN [BRACKETS] |
| ECO DESCRIPTION THE GREASE ZERK ROTATED TO 1 O'CLOCK POSITION <small>PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. (OWNER) AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.</small> | | | |

| | | |
|------------------------|---|-----------------|
| DRAWN BY RM | REGAL™ Regal Beloit America, Inc. | |
| DATE 10/27/1992 | DESCRIPTION OUTLINE 140T FR. - BB- TS - TENV | |
| APPROVED BY JA | MATERIAL | PROCESS/FINISH |
| DATE 11/02/1992 | REFERENCE 100658 | SIZE B |
| THIRD ANGLE PROJECTION | DRAWING NUMBER 100658 | SHEET 1 OF 1 |

NOTES:

1. BOX CAN BE ROTATED IN 90° STEPS.
2. BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
3. FRONT GREASE HOLE LOCATION SHOWN WITH HIDDEN LINES.

4

3

2

1

**THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'**

**TO REVERSE ROTATION:
INTERCHANGE ANY TWO
LINE LEAD CONNECTIONS.**

TERMINAL BLOCK WHEN SPECIFIED



VIEW OF TERMINAL END

**IF MOTOR HAS
6 LEADS**



A-9806 DECAL

**OPTIONAL CORD
CONNECTION**

- L1 _____ WHITE
- L2 _____ RED
- L3 _____ BLACK

| | | |
|---|--------------------|--------------------|
| DRAWING REVISION AB | REVISION BY JJB | DATE 06-27-2017 |
| ECO ECO-0125361 | APPROVED BY TB | DATE 06-27-2017 |
| ECO DESCRIPTION UPDATED TO CURRENT STANDARDS | | |
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|---------------------------|
| DRAWN BY DA |
| DATE 03-26-1993 |
| APPROVED BY TB |
| DATE 03-26-1993 |
| REFERENCE |
| THIRD ANGLE PROJECTION |

| | | |
|-----------------------------------|---------------------------------|--|
| Regal Beloit America, Inc. | | |
| | | DESCRIPTION CONNECTION DIAGRAM EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR |
| MATERIAL | PROCESS/FINISH | |
| SIZE A | DRAWING NUMBER EE7300 | SHEET 1 OF 1 |

