Model No: SD103
Catalog No: SD103
Severe Duty Motor, 1.5 HP, 3 Ph, 60 Hz, 208-230/460 V, 1800 RPM, 145T Frame, TEFC

## Nameplate Specifications

| | | | |
|---|---|---|---|
| Output HP | 1.5 Hp | Output KW | 1.1 kW |
| Frequency | 60 Hz | Voltage | 208-230/460 V |
| Current | 1.95 A | Speed | 1740 rpm |
| Service Factor | 1.15 | Phase | 3 |
| Duty | Continuous | Insulation Class | F |
| Frame | 145T | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | No Protection | Ambient Temperature | 40 °C |
| UL | Recognized | CSA | Y |
| CE | Y | Number of Speeds | 1 |

## Technical Specifications

| | | | |
|---|---|---|---|
| Electrical Type | POLYPHASE | Starting Method | Across The Line |
| Poles | 4 | Rotation | Reversible |
| Mounting | Rigid Base | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Cast Iron |
| Shaft Type | Keyed | Overall Length | 14.20 in |
| Frame Length | 6.75 in | Shaft Diameter | 0.875 in |
| Shaft Extension | 2.25 in | | |
| Outline Drawing | SS620599 | Connection Drawing | A-EE7308 |

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:11/29/2022

$(\frac{3}{16} \times \frac{3}{16} \times 1\frac{3}{8})$
KEY

(7.36)

(4.18)

(7.68)

(.875)

(.39)

(3.50)

NPT 3/4"

(ø.35)
8 HOLES

(.50)

(2F)

(2F)

(B)

(C)

(2.25) (2.25)

(2.75)

(1.41)

(5.50)

(6.93)
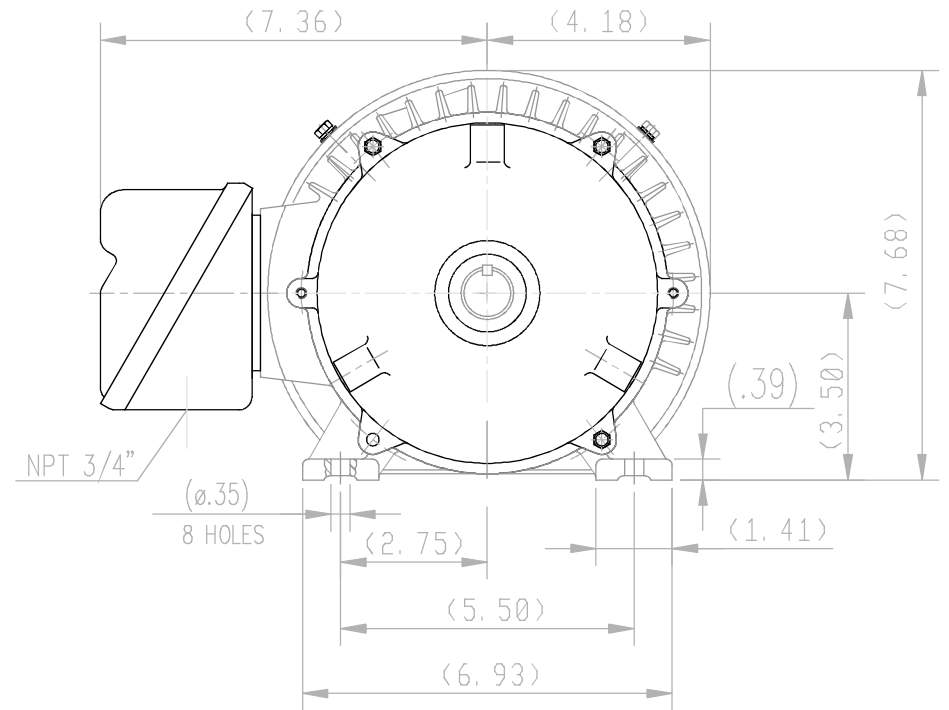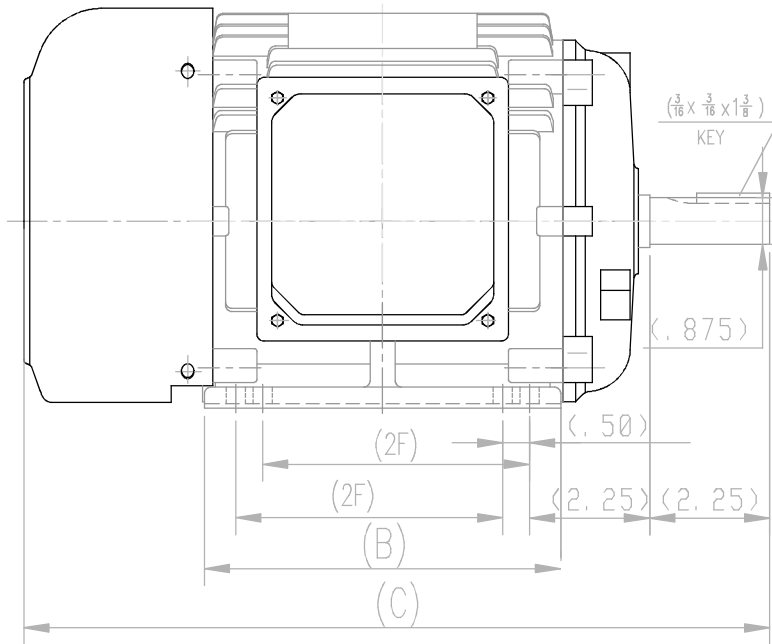
| FRAME | C | B | 2F |
|---|---|---|---|
| 143T | 13.2 | 5.71 | 4.0 |
| 145T | 14.2 | 6.70 | 5.0 |

| | | | TOLERANCES UNLESS SPECIFIED | | REGAL Regal-Beloit Corporation | DRAWN | ZYH 7.5.2012 |
|---|---|---|---|---|---|---|---|
| | | | DEC. | INCHES | | CHK | HZJ 7.5.2012 |
| | | | .X | ±.1 | | APPD | WGH 7.5.2012 |
| | | | .XX | ±.03 | TITLE OUTLINE 143/145T FR TEFC-SEVERE DUTY | SCALE | |
| | | | .XXX | ±.005 | | REF | |
| | | | .XXXX | ±.0005 | MAT'L. | FMF | |
| NO. | REVISION | BY & DATE | CHK | ANG | ±1/2 | FINISH | 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 SS620599 | SIZE B | DRAWING NO. SS620599 | REV. |
| | | | DIST | | | | |

**3 of 4**

THREE PHASE
DUAL VOLTAGE MOTOR

EE7308

### HIGH VOLTAGE

(U1) T1 ———————●————— L1
(V1) T2 ———————●————— L2
(W1) T3 ———————●————— L3
(U2) T4 ——————
(U3) T7 ——————●
(V2) T5 ——————
(V3) T8 ——————●
(W2) T6 ——————
(W3) T9 ——————●

### LOW VOLTAGE

(U1) T1 ——————
(U3) T7 ——————●———— L1
(V1) T2 ——————
(V3) T8 ——————●———— L2
(W1) T3 ——————
(W3) T9 ——————●———— L3
(U2) T4 ——————
(V2) T5 ——————●
(W2) T6 ——————

VIEW OF TERMINAL END

REF.
WINDING DIAGRAM

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

T1
T4
T7
T9
T8
T6
T3
T5
T2

T1 (U1)
T4 (U2)
T9 (W3)
T7 (U3)
T8 (V3)
T6 (W2)
T5 (V2)
T2 (V1)
T3 (W1)

OPTIONAL CORD
CONNECTION

L1 ———— WHITE ————
L2 ———— RED ————
L3 ———— BLACK ————

| NO. | REVISION | BY & DATE | | | TOLERANCES UNLESS SPECIFIED | | | | |
|-----|----------|-----------|---|---|---|---|---|---|---|
| 5 | CHG TO REGAL LOGO | SL 09/10/2015 | AB | DEC. | INCHES | | REGAL ™  Regal Beloit America, Inc. | DRAWN RM 11/20/1990 | |
| 4 | REVISED IEC NOTATIONS | MSG 11/15/2011 | CMN | .X | ±.1 | | | CHK ML 11/21/1990 | |
| 3 | ADDED IEC NOTATIONS... (U1), (V1) ETC.  MU95194 | MSG 5/10/2010 | MJS | .XX | ±.02 | TITLE CONNECTION DIAGRAM | | APPD SAS 04/24/2003 | |
| 2 | ADDED THE OPTIONAL CORD CONNECTION  MU46318 | RDH 04/24/2003 | DRS | .XXX | ±.005 | 3Ø – DUAL VOLTAGE MOTOR | | SCALE  1=1 | |
| 1 | REDRAWN | RM 11/20/1990 | | .XXXX | ±.0005 | MAT'L. | | REF | |
| NO. | REVISION | BY & DATE | CHK | ANG | ±7'30" | FINISH | | FMF | |
| | | | | | | | | 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

DIST  WP

CAD FILE  ee7308

SIZE A

DRAWING NO.  EE7308

PAGE OF

REV. 5