

PRODUCT INFORMATION PACKET



Model No: 170045.00

Catalog No: 170045.00

General Purpose Motor, 75 & 60 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 & 3000 RPM,
365TS Frame, TEFC



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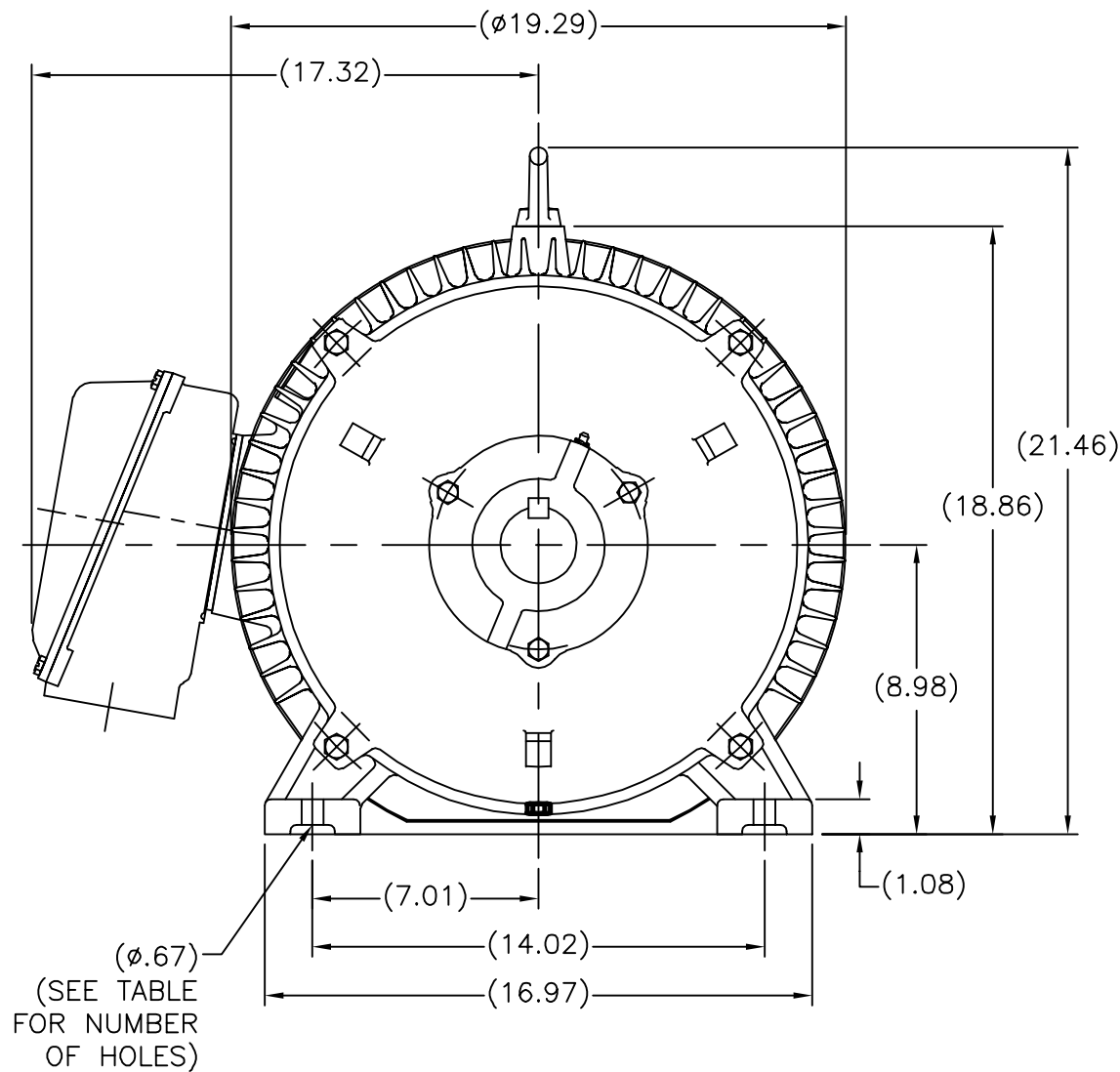
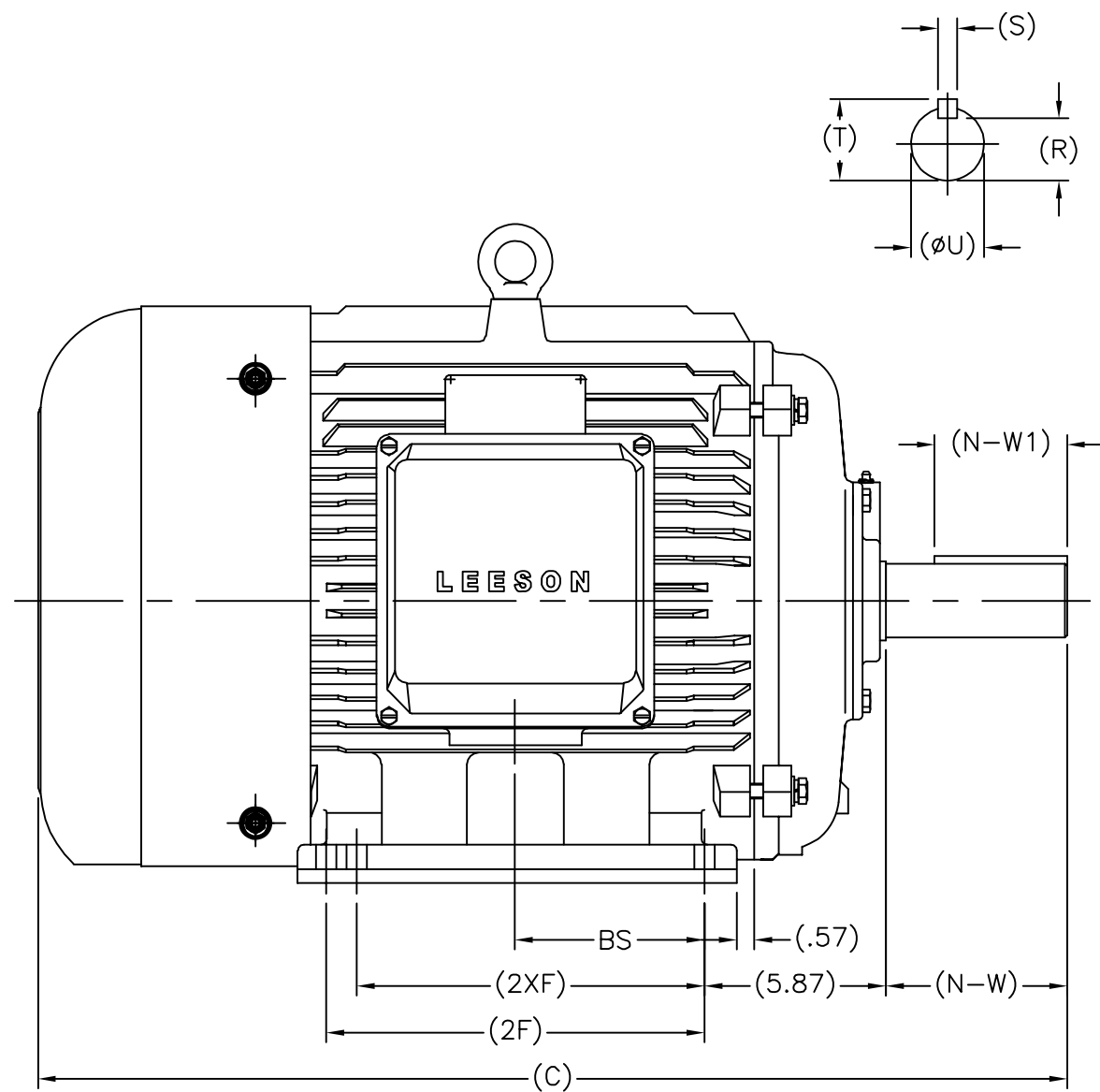
Nameplate Specifications


| | | | |
|------------------------|-----------------------|----------------------------|-----------------------------|
| Phase | 3 | Output HP | 75 & 60 Hp |
| Output KW | 56.0 & 45.0 kW | Voltage | 230/460 & 190/380 V |
| Speed | 3570 & 2970 rpm | Service Factor | 1.15 & 1.15 |
| Frame | 365TS | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | No Protection | Efficiency | 94.5 & 94.5 % |
| Ambient Temperature | 40 °C | Frequency | 60 & 50 Hz |
| Current | 167/83.5 & 161/80.5 A | Power Factor | 88.5 |
| Duty | Continuous | Insulation Class | F |
| Design Code | B | KVA Code | F |
| Drive End Bearing Size | 6313 | Opp Drive End Bearing Size | 6313 |
| UL | Recognized | CSA | Y |
| CE | Y | IP Code | 43 |
| Number of Speeds | 1 | | |

Technical Specifications

| | | | |
|-----------------------|-----------------------------|-------------------|---------------------|
| Electrical Type | Squirrel Cage Induction Run | Starting Method | Wye Start Delta Run |
| Poles | 2 | Rotation | Reversible |
| Resistance Main | .055 Ohms | Mounting | Rigid Base |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Cast Iron |
| Shaft Type | TS | Overall Length | 31.18 in |
| Shaft Diameter | 1.875 in | Shaft Extension | 2.05 in |
| Assembly/Box Mounting | F1/F2 CAPABLE | | |
| Connection Drawing | 004172.03 | Outline Drawing | SS622180LE |

SS622180LE



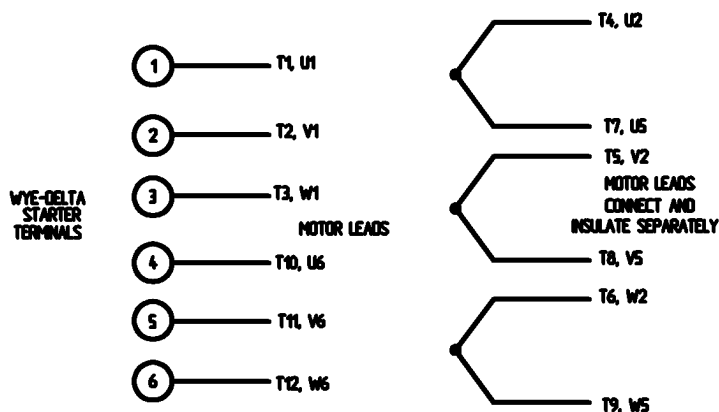
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|-------------|-------|-------|-------|-------|------|------|------|------|------|------|--------------|--|--|--|--|-------|-----------|----------------------|---------------|------------|-------------------------|---|------|
| | | | | | | | | | | | | TOLERANCES UNLESS SPECIFIED | |  REGAL - BELOIT CORPORATION | | | | DRAWN MSG 02/13/2007 | | | | | |
| | | | | | | | | | | | | DEC. | INCHES | | | | | CHK | ML 02/16/2007 | | | | |
| | | | | | | | | | | | | .X | ±.1 | | | | | APPD | SB 02/23/2007 | | | | |
| NT364TS-2 | 30.20 | 11.26 | --- | 4 | 3.74 | 2.05 | 1.87 | 1.59 | 0.50 | 2.09 | --- | | .XX | ±.03 | TITLE OUTLINE 360 FR. - TEFC - (REDESIGNED) | | SCALE N/A | | | | | | |
| NT365TS-2 | 31.18 | 12.24 | 11.26 | 6 | | | | | | | | | .XXX | ±.005 | | | REF | | | | | | |
| NT364T-4, 6 | 32.32 | 11.26 | --- | 4 | 5.87 | 4.29 | 2.37 | 2.01 | 0.63 | 2.64 | 5.60 6.10 | 1 | ADDED BS DIM. UPDATED TITLE BLOCK, ECO-0048910 | RFH 04/07/2014 | EH | .XXXX | ±.0005 | MAT'L | FMF | HEBEI | | | |
| NT365T-4, 6 | 33.31 | 12.24 | 11.26 | 6 | | | | | | | | NO. | REVISION | | BY & DATE | CHK | ANG | ±7'30" | 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 SS622180LE | | SIZE | DRAWING NO. PAGE 1 OF 1 | | REV. |
| | | | | | | | | | | | | | | | | DIST | | A | | SS622180LE | | 1 | |
| FRAME | C | 2F | 2XF | HOLES | N-W | N-W1 | øU | R | S | T | BS | | | | | | | | | | | | |

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.

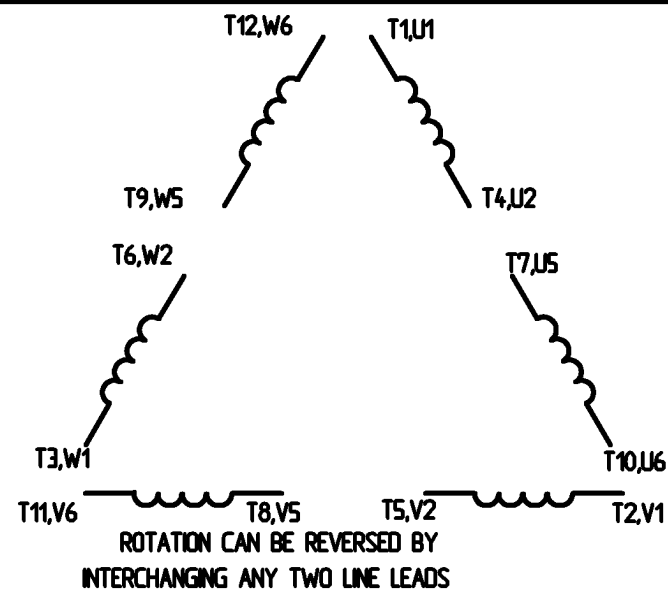
PART WINDING START USABLE ON 4 & 6 POLE MOTORS LOW VOLTAGE CONNECTION ONLY



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



12 LEAD DELTA CONNECTION ACROSS THE LINE START (FOR Y START DELTA RUN, REMOVE THE JUMPERS)

LOW VOLTAGE
(MUST BE REWIRED AS SHOWN)

HIGH VOLTAGE
(FACTORY WIRED FOR HIGH VOLTAGE AS SHOWN)



| | | | | TOLERANCES UNLESS SPECIFIED | | <div>LEESON</div> | ELECTRIC MOTORS GEARMOTORS AND DRIVES | DRAWN C/W 08/28/02 | |
|---|----------|-----------|-----|--------------------------------|---------|---|---|--------------------|-------------|
| | | | | DEC. | INCHES | | | CHK | |
| | | | | X | ± .1 | TITLE DELTA - WYE CONNECTION DIAGRAM IEC CAST IRON MOTORS | | APPD | |
| | | | | XX | ± .01 | | | SCALE | 1:1 |
| | | | | XXX | ± .005 | | | REF | |
| | | | | XXXX | ± .0005 | | | FMF | |
| NO. | REVISION | BY & DATE | CHK | ANG | ± 1/2° | FINISH | | PREV | |
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| | | | | DST | | | | A | 004172-03 |
| | | | | | | | | | REV. |

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STACK:

/CB
-dictionary-
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