PRODUCT INFORMATION PACKET



Model No: 171785.60 Catalog No: 171785.60

Severe Duty Motor, 40 & 30 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V, 1800 & 1500 RPM,

324T Frame, TEFC



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Nameplate Specifications

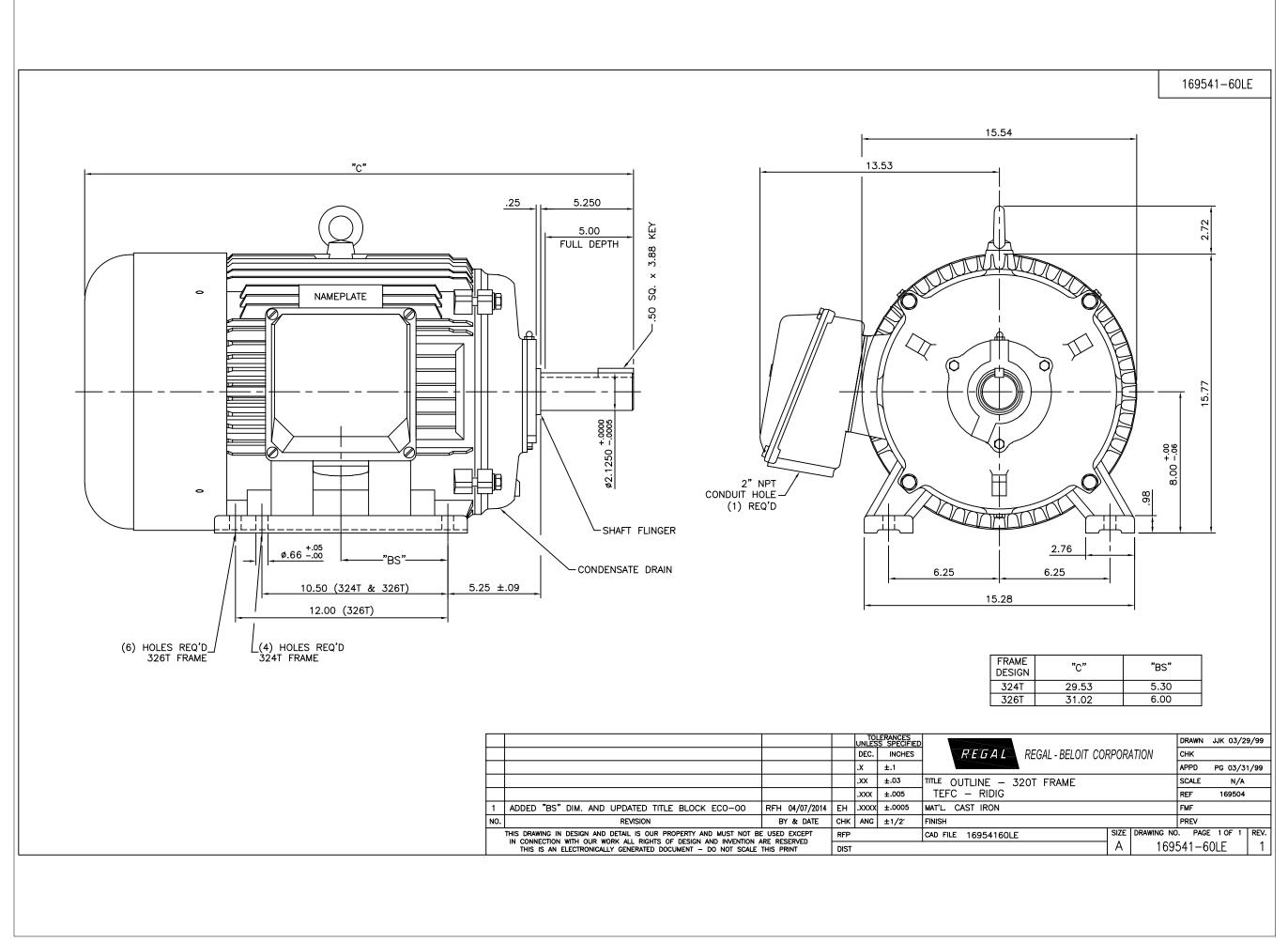
| Phase | 3 | Output HP | 40 & 30 Hp |
|------------------------|---------------------|----------------------------|-----------------------------|
| Output KW | 30.0 & 22.4 kW | Voltage | 208-230/460 & 190/380 V |
| Speed | 1780 & 1480 rpm | Service Factor | 1.15 & 1.15 |
| Frame | 324T | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | No Protection | Efficiency | 94.1 & 93 % |
| Ambient Temperature | 40 °C | Frequency | 60 & 50 Hz |
| Current | 100-92/46 & 84/42 A | Power Factor | 86 |
| Duty | Continuous | Insulation Class | F |
| Design Code | В | KVA Code | G |
| Drive End Bearing Size | 6312 | Opp Drive End Bearing Size | 6312 |
| UL | Recognized | CSA | Υ |
| CE | Υ | IP Code | 55 |
| Number of Speeds | 1 | Hazardous Location | DIVISION 2 |
| | | | |

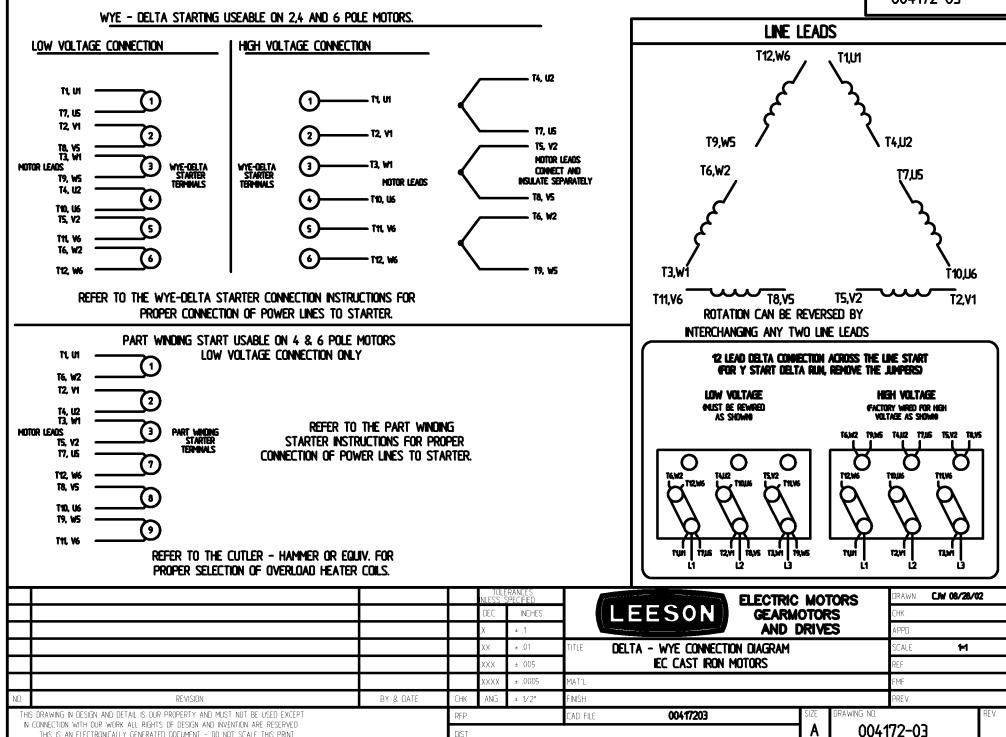
Technical Specifications

| Electrical Type | Squirrel Cage Inverter Rated | Starting Method | Wye Start Delta Run Or Inverter |
|-----------------------|------------------------------|-------------------|---------------------------------|
| Poles | 4 | Rotation | Reversible |
| Resistance Main | .042 Ohms | Mounting | Rigid Base |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Cast Iron |
| Shaft Type | Т | Overall Length | 29.53 in |
| Shaft Diameter | 2.125 in | Shaft Extension | 5.25 in |
| Assembly/Box Mounting | F1/F2 CAPABLE | | |
| Connection Drawing | 00417203 | Outline Drawing | 16954160LE |

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ERROR: syntaxerror
OFFENDING COMMAND: --nostringval-STACK:

/CB
-dictionary/Pscript_WinNT_Compat
-dictionary-



1051 CHEYENNE AVE. GRAFTON, WI 53024 PH. 262-377-8810

CATALOG #: 171785.60

CONN. DIAGRAM: 00417203

OUTLINE: 16954160LE **MOUNTING:** F1/F2 CAPABLE

WINDING #: T16104005 FR 3 A

TYPICAL MOTOR PERFORMANCE DATA

| HP | kW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|-------|-----------|-----------|-----------|-------|-----------|----------|--------|
| 40&30 | 30.0&22.4 | 1800 | 1780&1480 | 324T | TEFC | G | В |

| Р | H Hz | VOLTS | AMPS | START TYPE | DUTY | INSL | S.F. | амв°с |
|---|-------|---------------------|-----------------|----------------------|------------|------|-----------|-------|
| | 60/50 | 208-230/460&190/380 | 100-92/46&84/42 | Y START D RUN OR INV | CONTINUOUS | F5 | 1.15/1.15 | 40 |

| FULL LOAD EFF: | 94.1&93 | 3/4 LOAD EFF: | 95 | 1/2 LOAD EFF: | 95.1 | GTD. EFF | ELEC. TYPE |
|----------------|---------|---------------|------|---------------|------|----------|-------------------|
| FULL LOAD PF: | 86&87 | 3/4 LOAD PF: | 82.9 | 1/2 LOAD PF: | 74.9 | - | SQ CAGE INV RATED |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. | L.R. TORQUE | | B.D. TORÇ | F.L. RISE°C | |
|--------------------|-------------------|----------------|---------------------|-----|-----------|-------------|------|
| 118.6 LB-FT | 580 / 290 | 224.2 L | L B-FT 190 % | 348 | LB-FT | 295 % | 58.3 |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS / HOUR | APPROX. MOTOR WGT |
|---------------------------|-------------|---------------------|-----------|-----------------|------------------|----------------------|
| - dBA | - dBA | 6.32 LB-FT^2 | - LB-FT^2 | 20 SEC. | 2 | 534 LBS. |

*** SUPPLEMENTAL INFORMATION ***

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT |
|-----------------------|------------------------|---------------|-------------|------------------------|-----------------------|---------------|---------|------------------|
| STANDARD | STANDARD | RIGID | HORIZONTAL | PREMIUM SEVERE DUTY | DIVISION 2 | FALSE | NONE | GREEN (EPOXY) |

| BEAR | RINGS | CDEACE | SHAFT TYPE SPECIAL DE | | CDECTAL ODE | SHAFT | FRAME | |
|------|-------|------------|-----------------------|------------|-------------|----------------------------|-----------|--|
| DE | ODE | GREASE | SHAFITYPE | SPECIAL DE | SPECIAL ODE | MATERIAL | MATERIAL | |
| BALL | BALL | DOLVDEY EM | т | NONE | NONE | AICI 104E (C 240) | CACT IDON | |
| 6312 | 6312 | POLYREX EM | ' | NONE | NONE | AISI 1045 (C - 240) | CAST IRON | |

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

| * | INVERTER TORQUE: VARIABLE 10:1 INV. HP SPEED RANGE: NONE |
|---|--|
| N | ENCODER: NONE |
| 0 | NONE NONE PPR |
| т | BRAKE: NONE NONE |
| E | NONE P/N NONE NONE NONE NONE FT-LB NONE V NONE Hz |

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