

BALDOR • RELIANCE

Customer information packet

EM2551T

75HP, 1775RPM, 3PH, 60HZ, 365T, 4462M, OPSB, F1

Specifications

| | |
|--------------------------------|---|
| Enclosure | OPSB |
| Frame | 365T |
| Frame Material | Steel |
| Frequency | 60.00 Hz |
| Motor Letter Type | Three Phase |
| Output @ Frequency | 75.000 HP @ 60 HZ |
| Phase | 3 |
| Synchronous Speed @ Frequency | 1800 RPM @ 60 HZ |
| Voltage @ Frequency | 230.0 V @ 60 HZ 460.0 V @ 60 HZ |
| Agency Approvals | CSA EEV NEMA PREMIUM NEMA_PREMIUM UR |
| Ambient Temperature | 40 °C |
| Auxillary Box | No Auxillary Box |
| Auxillary Box Lead Termination | None |
| Base Indicator | Rigid |
| Bearing Grease Type | Polyrex EM (-20F +300F) |
| Blower | None |
| Current @ Voltage | 170.000 A @ 230.0 V 85.000 A @ 460.0 V |
| Design Code | B |
| Drip Cover | No Drip Cover |
| Duty Rating | CONT |
| Efficiency @ 100% Load | 95.0 % |
| Electrically Isolated Bearing | Not Electrically Isolated |
| Feedback Device | NO FEEDBACK |
| Front Face Code | Standard |
| Front Shaft Indicator | None |
| Heater Indicator | No Heater |
| High Voltage Full Load Amps | 85.0 a |

Part detail

| | |
|--------------|------------|
| Revision | Z |
| Type | AC |
| Mech. spec. | 44E196 |
| Base | |
| Status | PRD/A |
| Elec. spec. | 44WGW013 |
| Layout | 44LYE196 |
| Eff. date | 10-31-2024 |
| CD Diagram | CD0180 |
| Poles | 04 |
| Leads | 9#6 |
| Proprietary | False |
| Created date | 02-25-2010 |

| | |
|-------------------------------|-----------------------|
| Insulation Class | F |
| Inverter Code | Inverter Ready |
| KVA Code | F |
| Lifting Lugs | Standard Lifting Lugs |
| Locked Bearing Indicator | Locked Bearing |
| Motor Lead Exit | Ko Box |
| Motor Lead Quantity/Wire Size | 9 @ 6 AWG |
| Motor Lead Termination | Flying Leads |
| Motor Standards | NEMA |
| Motor Type | 4462M |
| Mounting Arrangement | F1 |
| Number of Poles | 4 |
| Overall Length | 33.72 IN |
| Power Factor | 85 |
| Product Family | General Purpose |
| Pulley End Bearing Type | Ball |
| Pulley Face Code | Standard |
| Pulley Shaft Indicator | Standard |
| Rodent Screen | None |
| Service Factor | 1.15 |
| Shaft Diameter | 2.375 IN |
| Shaft Extension Location | Pulley End |
| Shaft Ground Indicator | No Shaft Grounding |
| Shaft Rotation | Reversible |
| Shaft Slinger Indicator | No Slinger |
| Speed | 1775 rpm |
| Speed Code | Single Speed |
| Starting Method | Direct on line |
| Thermal Device - Bearing | None |
| Thermal Device - Winding | None |
| Vibration Sensor Indicator | No Vibration Sensor |
| Winding Thermal 1 | None |
| Winding Thermal 2 | None |

Nameplate

| NP2138LUA | | | | | | | | | | |
|---------------------|-----------------------------|-----------|-----------------|---------------|----------------|------------|------------------|------|--|--|
| CAT.NO. | EM2551T | | P/N | | | | ENCLOSURE | OPSB | | |
| SPEC. | 44E196W013G1 | CC | 010A | FRAME | 365T | S/N | | | | |
| HP | 75 | | CLASS | F | HZ | 60 | | | | |
| RPM | 1775 | | PH | 3 | DES | B | | | | |
| VOLT | 230/460 | | KVA-CODE | F | ODE BRG | 6312 | DE BRG | 6313 | | |
| AMP | 170/85 | | | | | | | | | |
| RATING | 40C AMB-CONT | | | GREASE | POLYREX EM | | | | | |
| NEMA-NOM-EFF | 95 | PF | 85 | SER.F. | 1.15 | | | | | |
| | 50Hz 75Hp 190/380V 204/102A | | | | SF 1.0 | | | | | |
| HTR-VOLTS | HTR-AMPS | | | | | | | | | |

Accessories

| Part number | Description | Multiplier |
|--------------------|------------------------------------|-------------------|
| 44-1403 | C FACE KIT 44/404 USC TSC 6313 BRG | A8 |

AC Induction Motor Performance Data

Record # 13882

Typical performance - not guaranteed values

| Winding: 44WGW013-R001 | | Type: 4462M | Enclosure: OPEN |
|------------------------|-----------------|--|-------------------------|
| Nameplate Data | | 460 V, 60 Hz: High Voltage Connection | |
| Rated Output (HP) | 75 | Full Load Torque | 222 LB-FT |
| Volts | 230/460 | Start Configuration | direct on line |
| Full Load Amps | 170/85 | Breakdown Torque | 610 LB-FT |
| R.P.M. | 1775 | Pull-up Torque | 235 LB-FT |
| Hz | 60 Phase | Locked-rotor Torque | 327 LB-FT |
| NEMA Design Code | B KVA Code | Starting Current | 507 A |
| Service Factor (S.F.) | 1.15 | No-load Current | 26.2 A |
| NEMA Nom. Eff. | 95 Power Factor | Line-line Res. @ 25°C | 0.0799 Ω |
| Rating - Duty | 40C AMB-CONT | Temp. Rise @ Rated Load | 30°C |
| S.F. Amps | | Temp. Rise @ S.F. Load | 37°C |
| | | Locked-rotor Power Factor | 26.3 |
| | | Rotor inertia | 11.7 lb-ft ² |

Load Characteristics 460 V, 60 Hz, 75 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|-----------------|------|------|------|------|------|------|-------|
| Power Factor | 56 | 77 | 84 | 86 | 87 | 87 | 87 |
| Efficiency | 93.6 | 95.6 | 95.4 | 95.3 | 94.6 | 93.9 | 94.9 |
| Speed | 1794 | 1788 | 1782 | 1776 | 1769 | 1761 | 1772 |
| Line amperes | 33.9 | 48 | 66.1 | 85.4 | 106 | 128 | 97.76 |

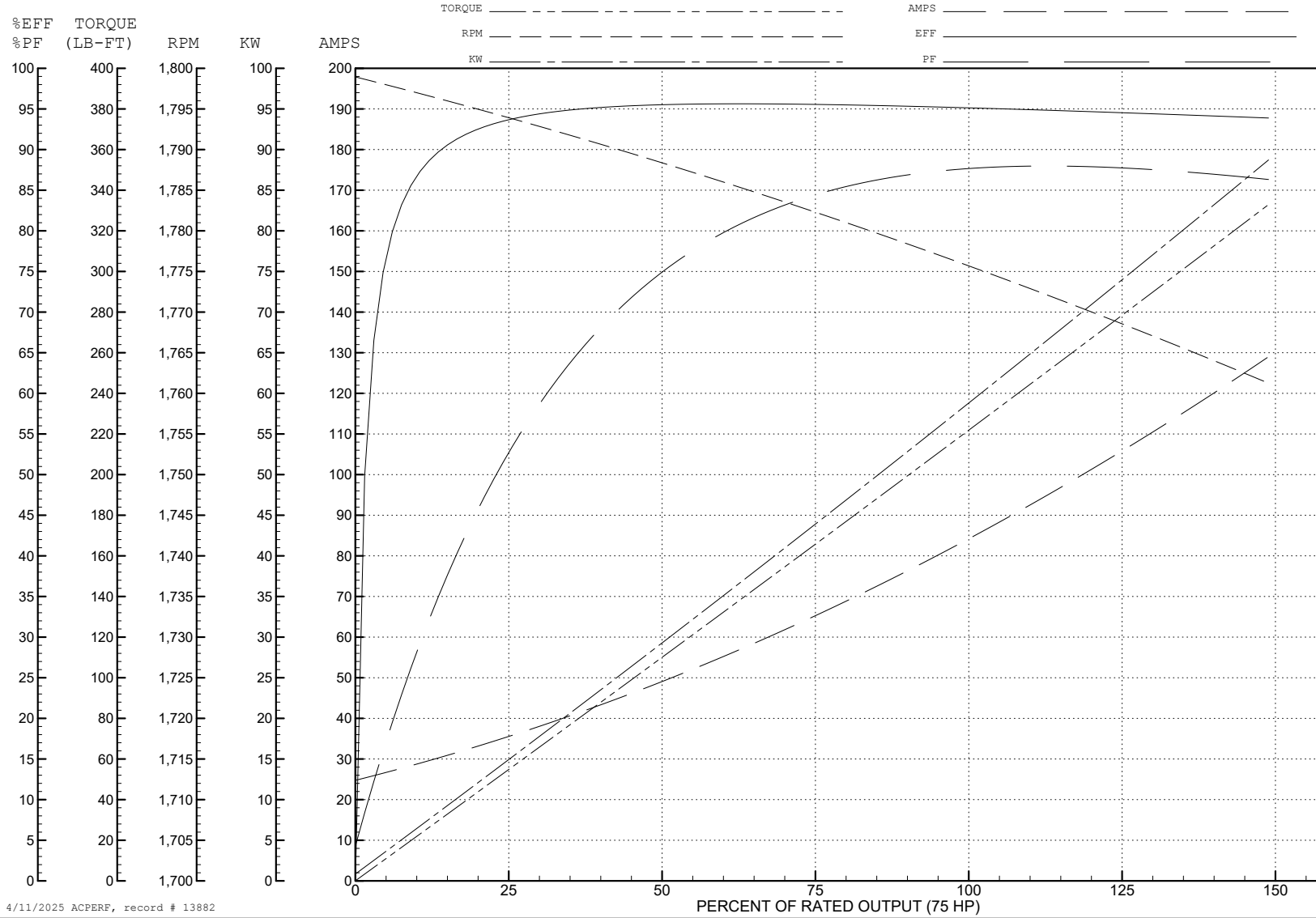
ABB Motors and Mechanical Inc.

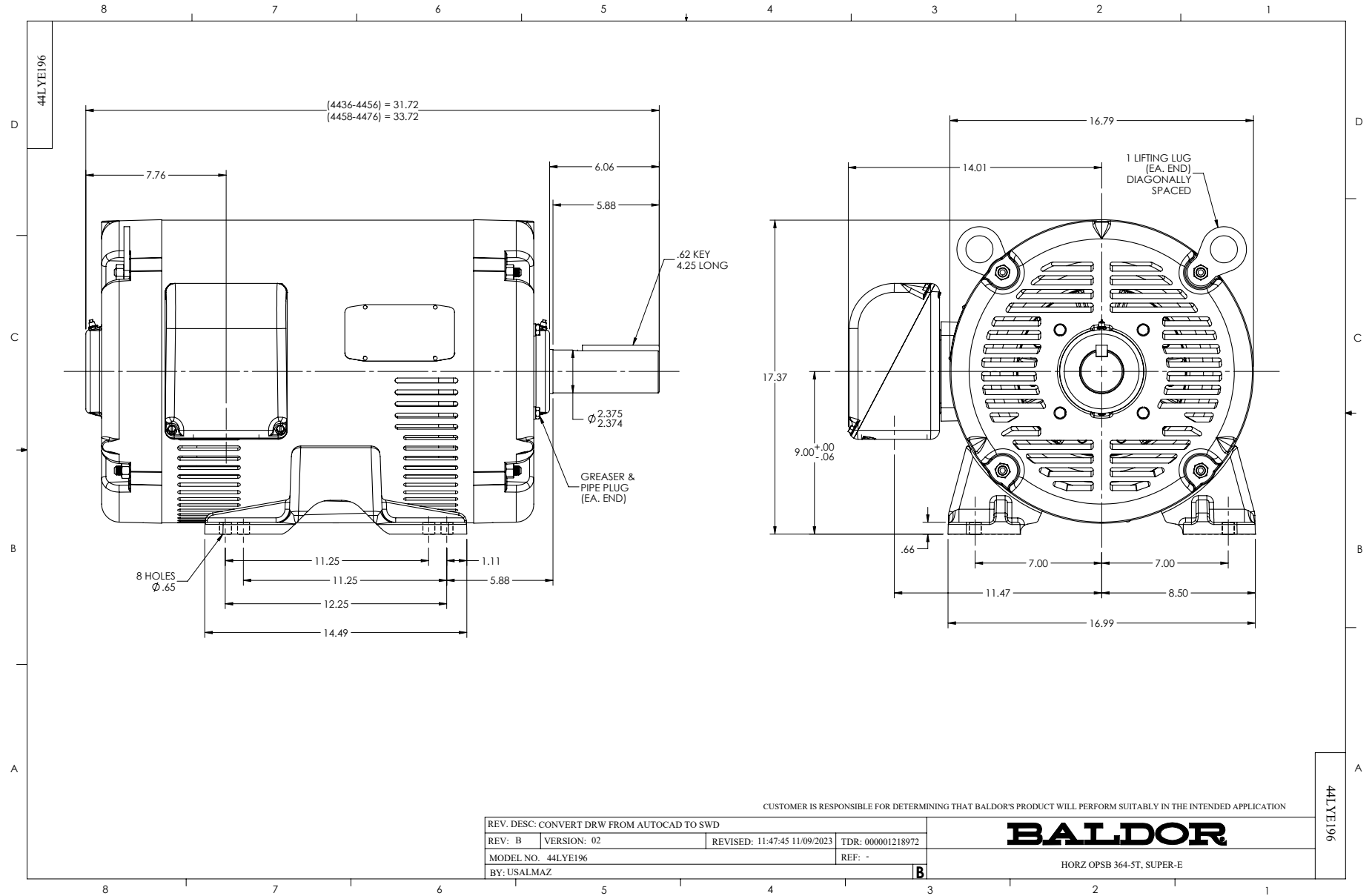
WINDING # 44WGW013

Typical performance - not guaranteed values.

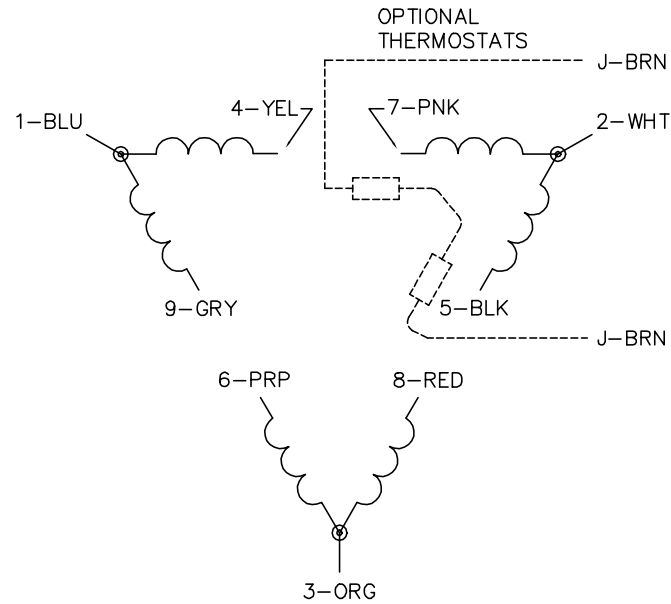
75 HP 3 PH 60 HZ 1775 RPM 460 V 4462M

TORQUES (LB-FT): PO=610 PU=235 LR=327 LRA=507

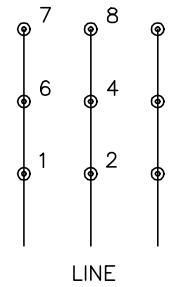




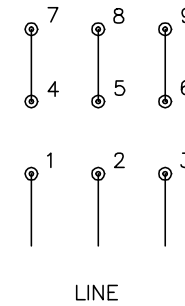
CD0180



LOW VOLTAGE
(2D)



HIGH VOLTAGE
(1D)



NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0180

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|-----------------------------------|--------------------------------|-------------------|
| REV. DESC: ADD CLASS CONN00000007 | | |
| REV. LTR: D | VERSION: 01 | TDR: 000001099922 |
| FILE: \AAA\00005\148 | REVISED: 10: 25: 29 02/19/2019 | BY: ENBRIRO |
| MTL: - | © □ | |

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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