

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **CEM7014T**

**1//.75HP,1760//1460RPM,3PH,60//50HZ,143T**

| Part Detail |       |                |       |             |          |               |            |
|-------------|-------|----------------|-------|-------------|----------|---------------|------------|
| Revision:   | Q     | Status:        | PRD/A | Change #:   |          | Proprietary:  | No         |
| Type:       | AC    | Prod. Type:    | 3520M | Elec. Spec: | 35WGM492 | CD Diagram:   | CD0005     |
| Enclosure:  | XPFC  | Mfg Plant:     |       | Mech. Spec: | 35E377   | Layout:       | 35LYE377   |
| Frame:      | 143TC | Mounting:      | F1    | Poles:      | 04       | Created Date: | 08-02-2010 |
| Base:       | RG    | Rotation:      | R     | Insulation: | B        | Eff. Date:    | 01-19-2017 |
| Leads:      | 9#18  |                |       |             |          | Replaced By:  |            |
| Literature: |       | Elec. Diagram: |       |             |          |               |            |

## Nameplate NP1426XPSLEV

|                |                  |              |      |
|----------------|------------------|--------------|------|
| NO.            |                  | CC           | 010A |
| SER.           |                  |              |      |
| SPEC.          | 35E377M492G1     |              |      |
| CAT.NO.        | CEM7014T         |              |      |
| HP             | 1//.75           | T. CODE      | T3C  |
| VOLTS          | 230/460//190/380 |              |      |
| AMPS           | 3/1.5//2.8/1.4   |              |      |
| RPM            | 1760//1460       |              |      |
| HZ             | 60//50           | PH           | 3    |
| SER.F.         | 1.00             | DES          | B    |
| RATING         | 40C AMB-CONT     | CL           | B    |
| FRAME          | 143TC            | CODE         | L    |
| USABLE AT 208V | 3.1              | NEMA-NOM-EFF | 85.5 |
| BLANK          |                  | PF           | 71   |

| Parts List    |                                          |          |
|---------------|------------------------------------------|----------|
| Part Number   | Description                              | Quantity |
| SA200800      | SA 35E377M492G1                          | 1.000 EA |
| RA188112      | RA 35E377M492G1                          | 1.000 EA |
| 34FN3002B01   | EXTERNAL FAN, PLASTIC, .637/.639 HUB W/  | 1.000 EA |
| 35CB3001A02SP | EXPL PROOF CONDUIT BOX, 3/4"PIPE TAP LEA | 1.000 EA |
| 11XW1032G06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 EA |
| HW3001B01     | BRASS CUP WASHER, FOR #8 SCREW           | 1.000 EA |
| 35EP3700A01SP | FR ENDPLATE, XPFC                        | 1.000 EA |
| HW5100A03     | WAVY WASHER (W1543-017)                  | 1.000 EA |
| 35EP3702A01SP | PU EP-205 BRG-35X-56C-143-5TC            | 1.000 EA |
| 51XN1032A18   | 10-32 X 1 1/8 HX WS SL SR (ESKAY)        | 2.000 EA |
| HA3013A01     | 1/2-20X5/8 SPL.HX BOLT                   | 2.000 EA |
| HW3021C06     | 3/32 DI X .625 PIN (F/S)                 | 2.000 EA |
| XY3118A12     | 5/16-18 HEX NUT DIRECTIONAL SERRATION    | 4.000 EA |
| 35FH4005A01SP | IEC FH NO GREASER W/PRIMED               | 1.000 EA |
| 51XW1032A06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 3.000 EA |
| 35CB3500A01SP | CONDUIT BOX LID, MACH                    | 1.000 EA |
| 51XN2520A16   | SCREW, HEX WS SLT, ZN, 1/4-20 X 1.00     | 4.000 EA |
| HW2501D13     | KEY, 3/16 SQ X 1.375                     | 1.000 EA |
| HA7000A01     | KEY RETAINER 7/8" DIA SHAFT              | 1.000 EA |
| 85XU0407S04   | 4X1/4 U DRIVE PIN STAINLESS              | 6.000 EA |
| NP0018F       | ALUM UL XP CONDUIT BOX NAMEPLATE         | 1.000 EA |
| MJ1000A02     | GREASE, POLYREX EM EXXON (USe 4824-15A)  | 0.050 LB |
| 51XB1214A16   | 12-14X1.00 HXWSSLD SERTYB                | 1.000 EA |
| MG1025G29     | WILKOFAS, 789.229, DARK CHARCOAL GRAY    | 0.017 GA |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| HA3104A06              | THRUBOLT 5/16-18 X 8.50 OHIO ROD         | 4.000 EA |
| LB1119N                | WARNING LABEL                            | 1.000 EA |
| LC0145B01              | CONNECTION LABEL                         | 1.000 EA |
| NP1426XPSLEV           | SS XP UL CSA-EEV CC CL-I GP-D            | 1.000 EA |
| 36PA1000               | PKG GRP, PRINT    PK1016A06              | 1.000 EA |
| MN416A01               | TAG-INSTAL-MAINT no wire (1000/bx) 11/14 | 1.000 EA |

**AC Induction Motor Performance Data**

Record # 33669 - Typical performance - not guaranteed values

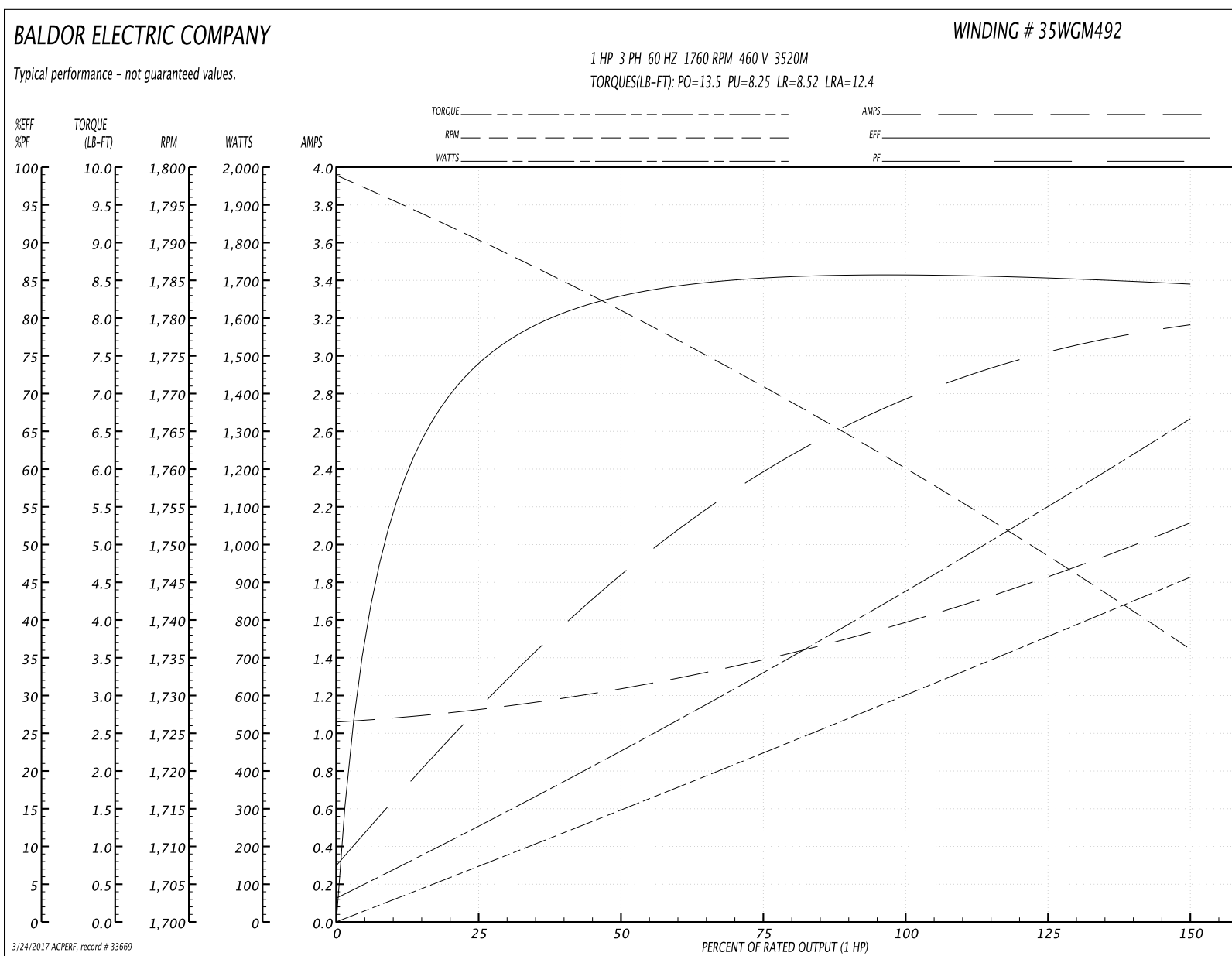
|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 35WGM492-R005 | <b>Type:</b> 3520M | <b>Enclosure:</b> XPFC |
|-------------------------------|--------------------|------------------------|

| Nameplate Data        |                  |              |    | 460 V, 60 Hz:<br>High Voltage Connection |                          |
|-----------------------|------------------|--------------|----|------------------------------------------|--------------------------|
| Rated Output (HP)     | 1//.75           |              |    | Full Load Torque                         | 2.99 LB-FT               |
| Volts                 | 230/460//190/380 |              |    | Start Configuration                      | direct on line           |
| Full Load Amps        | 3/1.5//2.8/1.4   |              |    | Breakdown Torque                         | 13.5 LB-FT               |
| R.P.M.                | 1760//1460       |              |    | Pull-up Torque                           | 8.25 LB-FT               |
| Hz                    | 60//50           | Phase        | 3  | Locked-rotor Torque                      | 8.52 LB-FT               |
| NEMA Design Code      | B                | KVA Code     | L  | Starting Current                         | 12.4 A                   |
| Service Factor (S.F.) | 1                |              |    | No-load Current                          | 1.07 A                   |
| NEMA Nom. Eff.        | 85.5             | Power Factor | 71 | Line-line Res. @ 25°C                    | 15 Ω                     |
| Rating - Duty         | 40C AMB-CONT     |              |    | Temp. Rise @ Rated Load                  | 36°C                     |
|                       |                  |              |    | Locked-rotor Power Factor                | 53.8                     |
|                       |                  |              |    | Rotor inertia                            | 0.118 LB-FT <sup>2</sup> |

## Load Characteristics 460 V, 60 Hz, 1 HP

|                 |      |      |      |      |      |      |
|-----------------|------|------|------|------|------|------|
| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
| Power Factor    | 29   | 46   | 60   | 69   | 75   | 79   |
| Efficiency      | 74.2 | 82.9 | 85.4 | 85.8 | 85.4 | 84.5 |
| Speed           | 1790 | 1781 | 1771 | 1760 | 1749 | 1736 |
| Line amperes    | 1.11 | 1.24 | 1.39 | 1.59 | 1.83 | 2.11 |

## Performance Graph at 460V, 60Hz, 1.0HP Typical performance - Not guaranteed values



**AC Induction Motor Performance Data**

Record # 33670 - Typical performance - not guaranteed values

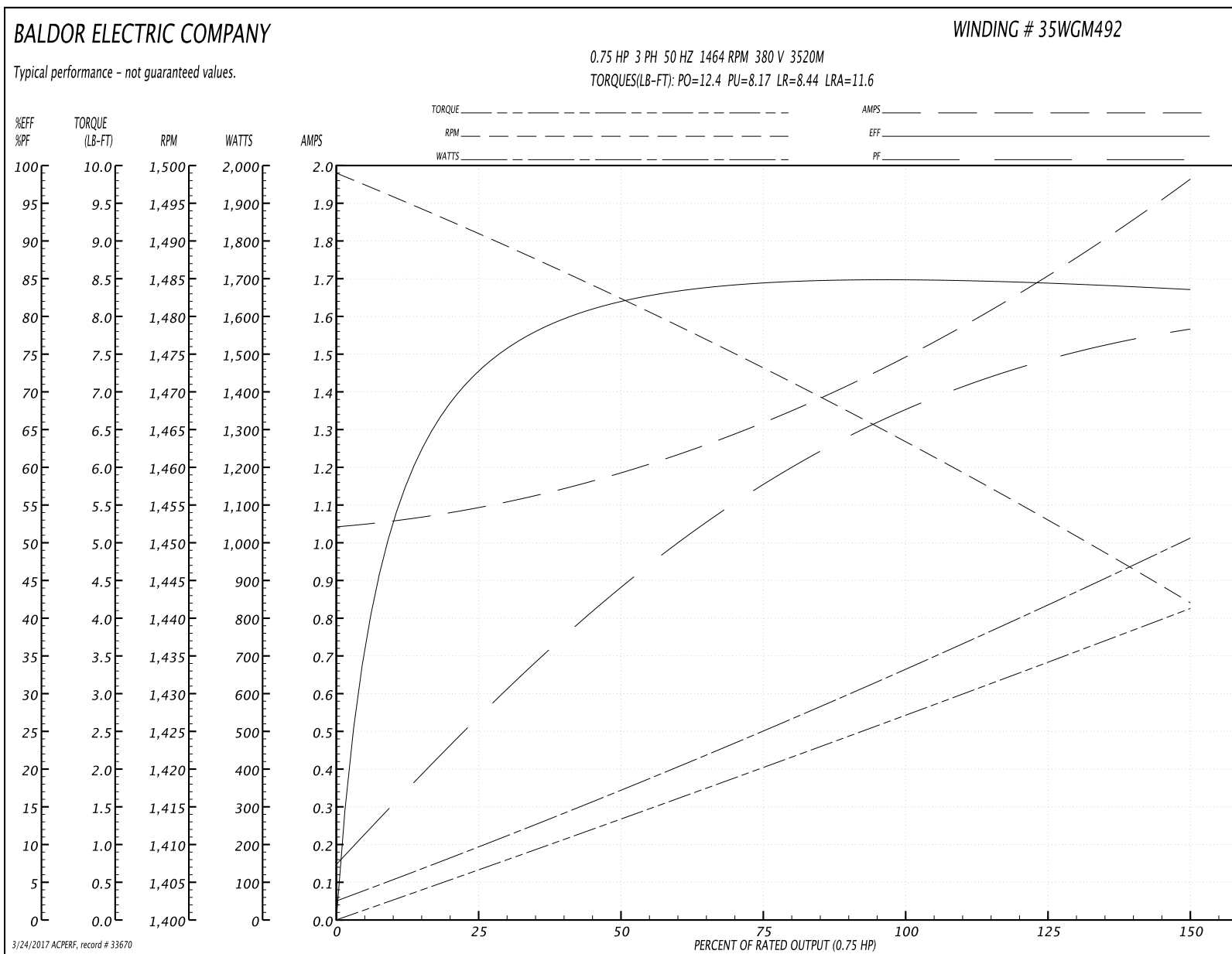
|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 35WGM492-R005 | <b>Type:</b> 3520M | <b>Enclosure:</b> XPFC |
|-------------------------------|--------------------|------------------------|

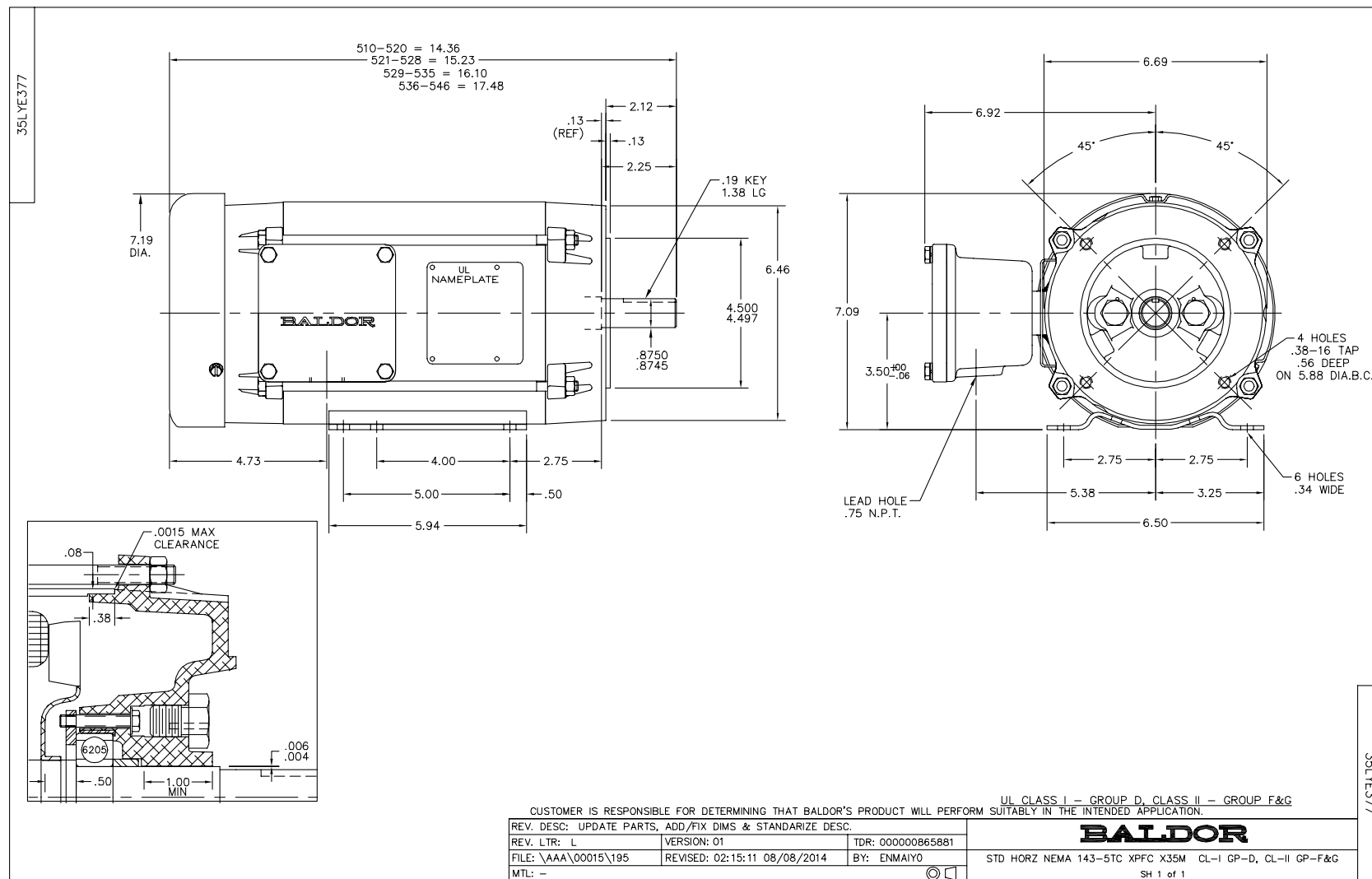
| Nameplate Data        |                  |              |    | 380 V, 50 Hz:<br>High Voltage Connection |                          |
|-----------------------|------------------|--------------|----|------------------------------------------|--------------------------|
| Rated Output (HP)     | 1//.75           |              |    | Full Load Torque                         | 2.7 LB-FT                |
| Volts                 | 230/460//190/380 |              |    | Start Configuration                      | direct on line           |
| Full Load Amps        | 3/1.5//2.8/1.4   |              |    | Breakdown Torque                         | 12.4 LB-FT               |
| R.P.M.                | 1760//1460       |              |    | Pull-up Torque                           | 8.17 LB-FT               |
| Hz                    | 60//50           | Phase        | 3  | Locked-rotor Torque                      | 8.44 LB-FT               |
| NEMA Design Code      | B                | KVA Code     | L  | Starting Current                         | 11.6 A                   |
| Service Factor (S.F.) | 1                |              |    | No-load Current                          | 1.05 A                   |
| NEMA Nom. Eff.        | 85.5             | Power Factor | 71 | Line-line Res. @ 25°C                    | 15 Ω                     |
| Rating - Duty         | 40C AMB-CONT     |              |    | Temp. Rise @ Rated Load                  | 32°C                     |
|                       |                  |              |    | Locked-rotor Power Factor                | 59.5                     |
|                       |                  |              |    | Rotor inertia                            | 0.118 LB-FT <sup>2</sup> |

## Load Characteristics 380 V, 50 Hz, 0.75 HP

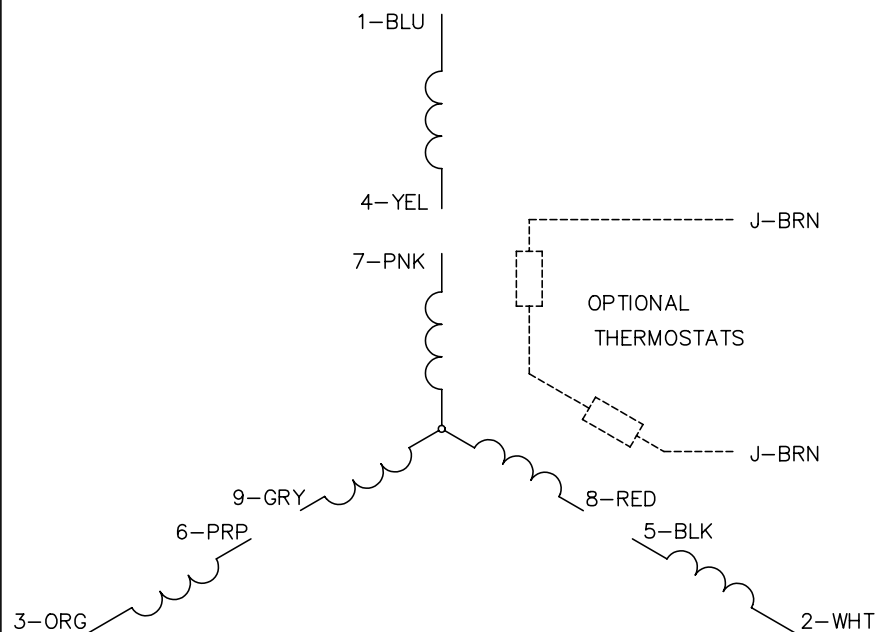
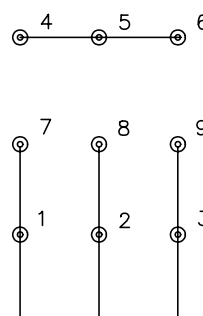
|                 |      |      |      |      |      |      |
|-----------------|------|------|------|------|------|------|
| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
| Power Factor    | 28   | 44   | 58   | 67   | 74   | 79   |
| Efficiency      | 73.1 | 81.9 | 84.4 | 85   | 84.5 | 83.5 |
| Speed           | 1491 | 1482 | 1473 | 1464 | 1453 | 1442 |
| Line amperes    | 1.08 | 1.19 | 1.32 | 1.49 | 1.71 | 1.96 |

## Performance Graph at 380V, 50Hz, 0.75HP Typical performance - Not guaranteed values

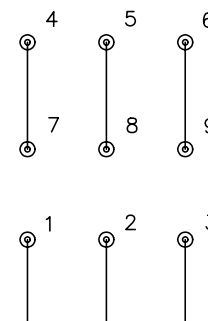




CD0005

LOW VOLTAGE  
(2Y)

LINE

HIGH VOLTAGE  
(1Y)

LINE

## 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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: E

BY: JLP

REVISED: 01/19/99 10:15

TDR: 0171435

900000

FILE: AAA00005140

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005