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# Customer information packet

## EWDM3545T

1HP, 3450RPM, 3PH, 60HZ, 143T, TENV, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                        |
|--------------------------------|----------------------------------------|
| Enclosure                      | TENV                                   |
| Frame                          | 143T                                   |
| Frame Material                 | Steel                                  |
| Frequency                      | 60.00 Hz                               |
| Haz Area Class and Group       | None                                   |
| Haz Area Division              | Not Applicable                         |
| Motor Letter Type              | Three Phase                            |
| Output @ Frequency             | 1.000 HP @ 60 HZ                       |
| Phase                          | 3                                      |
| Synchronous Speed @ Frequency  | 3600 RPM @ 60 HZ                       |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ     |
| Agency Approvals               | CSA<br>CSA EEV<br>NEMA PREMIUM<br>UR   |
| Ambient Temperature            | 40 °C                                  |
| Auxiliary Box                  | NO AUXILLARY BOX                       |
| Auxiliary Box Lead Termination | None                                   |
| Base Indicator                 | Rigid                                  |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                |
| Blower                         | None                                   |
| Current @ Voltage              | 1.300 A @ 460.0 V<br>2.600 A @ 230.0 V |
| Design Code                    | B                                      |
| Drip Cover                     | No Drip Cover                          |
| Duty Rating                    | CONT                                   |
| Efficiency @ 100% Load         | 82.5 %                                 |
| Electrically Isolated Bearing  | Not Electrically Isolated              |
| Feedback Device                | NO FEEDBACK                            |
| Heater Indicator               | No Heater                              |
| High Voltage Full Load Amps    | 1.3 a                                  |

## Part detail

|              |            |
|--------------|------------|
| Revision     | C          |
| Type         | AC         |
| Mech. spec.  |            |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGR933   |
| Layout       | 35LYS584   |
| Eff. date    | 02-14-2024 |
| CD Diagram   | CD0005     |
| Poles        | 02         |
| Leads        | 9#18       |
| Proprietary  | False      |
| Created date | 12-06-2019 |

|                                   |                            |
|-----------------------------------|----------------------------|
| <b>Insulation Class</b>           | <b>F</b>                   |
| <b>Inverter Code</b>              | <b>Inverter Ready</b>      |
| <b>KVA Code</b>                   | <b>L</b>                   |
| <b>Lifting Lugs</b>               | <b>No Lifting Lugs</b>     |
| <b>Locked Bearing Indicator</b>   | <b>No Locked Bearing</b>   |
| <b>Motor Lead Termination</b>     | <b>Flying Leads</b>        |
| <b>Motor Standards</b>            | <b>NEMA</b>                |
| <b>Motor Type</b>                 | <b>3516M</b>               |
| <b>Mounting Arrangement</b>       | <b>F1</b>                  |
| <b>Number of Poles</b>            | <b>2</b>                   |
| <b>Overall Length</b>             | <b>11.12 IN</b>            |
| <b>Power Factor</b>               | <b>88</b>                  |
| <b>Product Family</b>             | <b>Wash Down</b>           |
| <b>Pulley Face Code</b>           | <b>Standard</b>            |
| <b>Rodent Screen</b>              | <b>None</b>                |
| <b>Service Factor</b>             | <b>1.15</b>                |
| <b>Shaft Diameter</b>             | <b>0.875 IN</b>            |
| <b>Shaft Ground Indicator</b>     | <b>No Shaft Grounding</b>  |
| <b>Shaft Rotation</b>             | <b>Reversible</b>          |
| <b>Speed</b>                      | <b>3450 rpm</b>            |
| <b>Speed Code</b>                 | <b>Single Speed</b>        |
| <b>Starting Method</b>            | <b>Direct on line</b>      |
| <b>Thermal Device - Bearing</b>   | <b>None</b>                |
| <b>Thermal Device - Winding</b>   | <b>None</b>                |
| <b>Vibration Sensor Indicator</b> | <b>No Vibration Sensor</b> |
| <b>Winding Thermal 1</b>          | <b>None</b>                |
| <b>Winding Thermal 2</b>          | <b>None</b>                |

## Nameplate

| NP1669L      |                       |      |     |      |   |  |       |   |  |  |  |
|--------------|-----------------------|------|-----|------|---|--|-------|---|--|--|--|
| CAT.NO.      | EWD3545T              |      |     |      |   |  |       |   |  |  |  |
| SPEC.        | 35-0000-0478          |      |     |      |   |  |       |   |  |  |  |
| HP           | 1                     |      |     |      |   |  |       |   |  |  |  |
| VOLTS        | 230/460               |      |     |      |   |  |       |   |  |  |  |
| AMP          | 2.6/1.3               |      |     |      |   |  |       |   |  |  |  |
| RPM          | 3450                  |      |     |      |   |  |       |   |  |  |  |
| FRAME        | 143T                  |      | HZ  | 60   |   |  | PH    | 3 |  |  |  |
| SER.F.       | 1.15                  | CODE | L   | DES  | B |  | CLASS | F |  |  |  |
| NEMA-NOM-EFF | 82.5                  | PF   | 88  |      |   |  |       |   |  |  |  |
| RATING       | 40C AMB-CONT          |      |     |      |   |  |       |   |  |  |  |
| CC           | 010A                  |      |     |      |   |  |       |   |  |  |  |
| DE           | 6205                  |      | ODE | 6203 |   |  |       |   |  |  |  |
| ENCL         | TENV                  | SN   |     |      |   |  |       |   |  |  |  |
| BLANK        | 20:1CT, 20:1VT,1.00SF |      |     |      |   |  |       |   |  |  |  |

## AC Induction Motor Performance Data

Record # 79990

Typical performance - not guaranteed values

| Winding: 35WGR933-R004 |  |              |  | Type: 3516M                              |  | Enclosure: TENV     |  |                       |  |        |  |
|------------------------|--|--------------|--|------------------------------------------|--|---------------------|--|-----------------------|--|--------|--|
| Nameplate Data         |  |              |  | 460 V, 60 Hz:<br>High Voltage Connection |  |                     |  |                       |  |        |  |
| Rated Output (HP)      |  | 1            |  | Full Load Torque                         |  | 1.5 LB-FT           |  |                       |  |        |  |
| Volts                  |  | 230/460      |  | Start Configuration                      |  | direct on line      |  |                       |  |        |  |
| Full Load Amps         |  | 2.6/1.3      |  | Breakdown Torque                         |  | 7.5 LB-FT           |  |                       |  |        |  |
| R.P.M.                 |  | 3450         |  | Pull-up Torque                           |  | 4.2 LB-FT           |  |                       |  |        |  |
| Hz                     |  | 60 Phase     |  | 3                                        |  | Locked-rotor Torque |  | 5.6 LB-FT             |  |        |  |
| NEMA Design Code       |  | B            |  | KVA Code                                 |  | L                   |  | Starting Current      |  | 12.4 A |  |
| Service Factor (S.F.)  |  | 1.15         |  | No-load Current                          |  | 0.63 A              |  |                       |  |        |  |
| NEMA Nom. Eff.         |  | 82.5         |  | Power Factor                             |  | 88                  |  | Line-line Res. @ 25°C |  | 15.2 Ω |  |
| Rating - Duty          |  | 40C AMB-CONT |  | Temp. Rise @ Rated Load                  |  | 80°C                |  |                       |  |        |  |
| S.F. Amps              |  |              |  | Temp. Rise @ S.F. Load                   |  | 93°C                |  |                       |  |        |  |
|                        |  |              |  | Locked-rotor Power Factor                |  | 56.1                |  |                       |  |        |  |
|                        |  |              |  | Rotor inertia                            |  | 0.0443 LB-FT2       |  |                       |  |        |  |

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

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 48   | 69   | 81   | 86   | 88   | 90   | 87   |
| Efficiency      | 71.5 | 80.5 | 83.4 | 83.6 | 82.9 | 81.3 | 83.2 |
| Speed           | 3560 | 3529 | 3494 | 3462 | 3423 | 3378 | 3439 |
| Line amperes    | 0.7  | 0.85 | 1.04 | 1.28 | 1.58 | 1.86 | 1.46 |

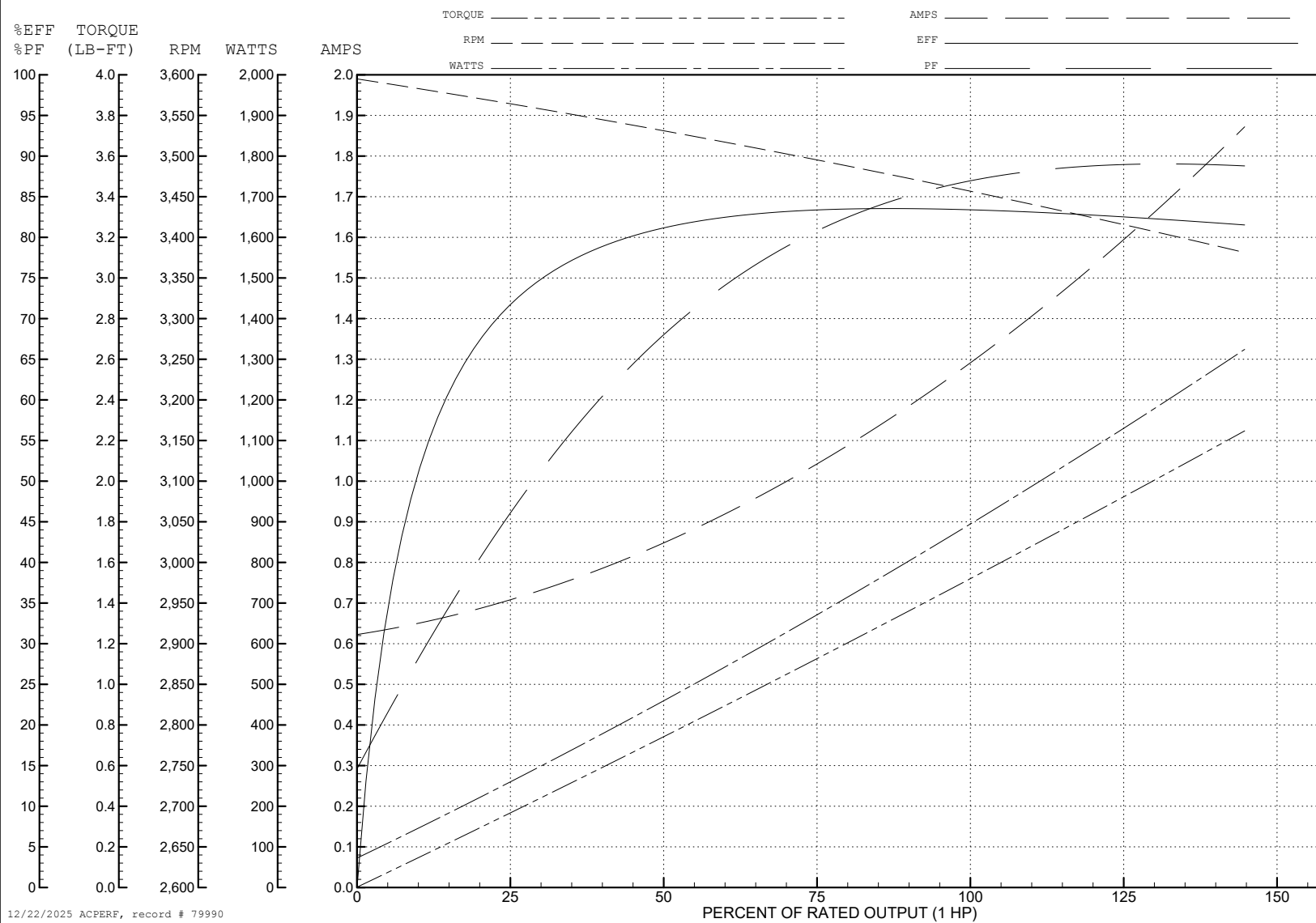
ABB Motors and Mechanical Inc.

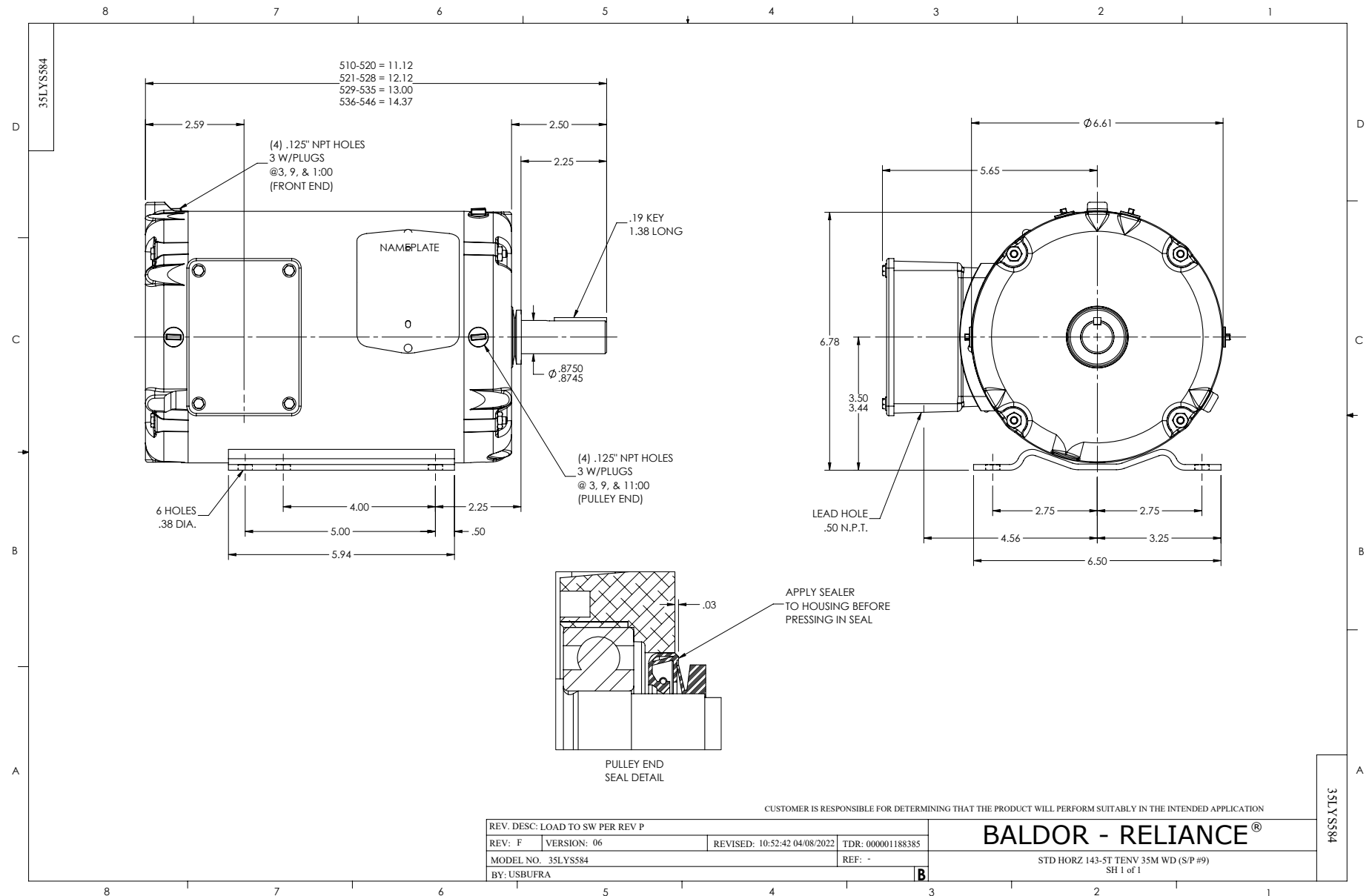
WINDING # 35WGR933

Typical performance - not guaranteed values.

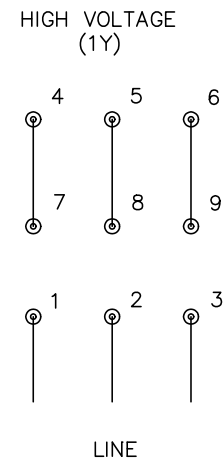
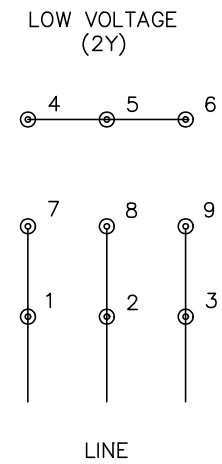
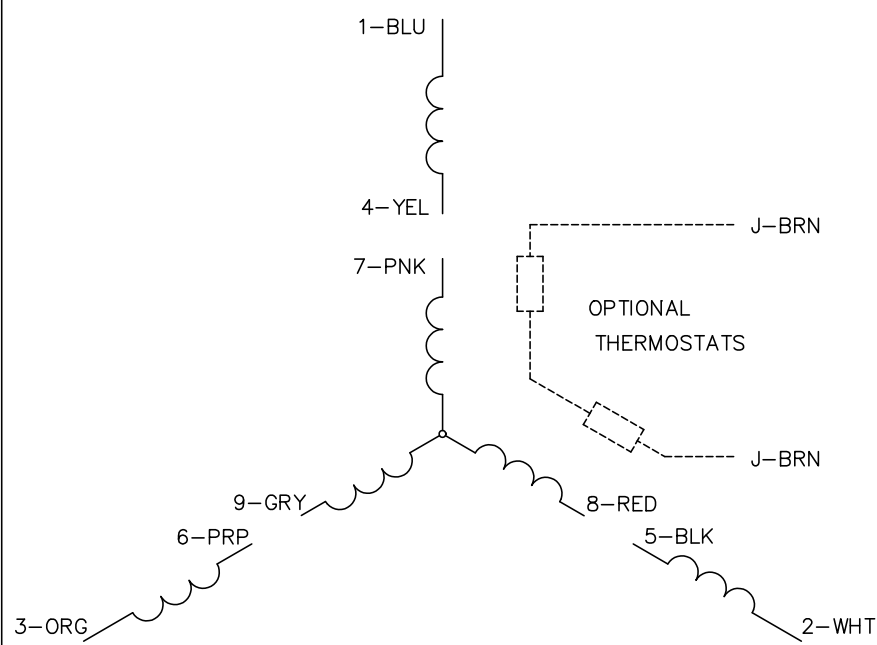
1 HP 3 PH 60 HZ 3450 RPM 460 V 3516M

TORQUES (LB-FT): PO=7.5 PU=4.2 LR=5.6 LRA=12.4





CD0005



- 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