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# Customer information packet

## EHM2523T-8

15HP, 1765RPM, 3PH, 60HZ, 254T, 3948M, OPSB, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                          |
|--------------------------------|------------------------------------------|
| Enclosure                      | OPSB                                     |
| Frame                          | 254T                                     |
| 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             | 15.000 HP @ 60 HZ                        |
| Phase                          | 3                                        |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                         |
| Voltage @ Frequency            | 200.0 V @ 60 HZ                          |
| Agency Approvals               | CSA<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              | 41.000 A @ 200.0 V<br>40.000 A @ 208.0 V |
| Design Code                    | A                                        |
| Drip Cover                     | No Drip Cover                            |
| Duty Rating                    | CONT                                     |
| Efficiency @ 100% Load         | 93.0 %                                   |
| 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    | 41.0 a                                   |
| Insulation Class               | F                                        |

## Part detail

|              |            |
|--------------|------------|
| Revision     | L          |
| Type         | AC         |
| Mech. spec.  | 39R006     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 39WGY389   |
| Layout       | 39LYR006   |
| Eff. date    | 12-12-2025 |
| CD Diagram   | CD0695     |
| Poles        | 04         |
| Leads        | 6#8        |
| Proprietary  | False      |
| Created date | 10-12-2017 |

|                                      |                              |
|--------------------------------------|------------------------------|
| <b>Inverter Code</b>                 | <b>Inverter Ready</b>        |
| <b>KVA Code</b>                      | <b>H</b>                     |
| <b>Lifting Lugs</b>                  | <b>Standard Lifting Lugs</b> |
| <b>Locked Bearing Indicator</b>      | <b>No Locked Bearing</b>     |
| <b>Motor Lead Exit</b>               | <b>Ko Box</b>                |
| <b>Motor Lead Quantity/Wire Size</b> | <b>6 @ 8 AWG</b>             |
| <b>Motor Lead Termination</b>        | <b>Flying Leads</b>          |
| <b>Motor Standards</b>               | <b>NEMA</b>                  |
| <b>Motor Type</b>                    | <b>3948M</b>                 |
| <b>Mounting Arrangement</b>          | <b>F1</b>                    |
| <b>Number of Poles</b>               | <b>4</b>                     |
| <b>Overall Length</b>                | <b>23.19 IN</b>              |
| <b>Power Factor</b>                  | <b>85</b>                    |
| <b>Product Family</b>                | <b>General Purpose</b>       |
| <b>Pulley End Bearing Type</b>       | <b>Ball</b>                  |
| <b>Pulley Face Code</b>              | <b>Standard</b>              |
| <b>Pulley Shaft Indicator</b>        | <b>Standard</b>              |
| <b>Rodent Screen</b>                 | <b>None</b>                  |
| <b>Service Factor</b>                | <b>1.15</b>                  |
| <b>Shaft Diameter</b>                | <b>1.625 IN</b>              |
| <b>Shaft Extension Location</b>      | <b>Pulley End</b>            |
| <b>Shaft Ground Indicator</b>        | <b>No Shaft Grounding</b>    |
| <b>Shaft Rotation</b>                | <b>Reversible</b>            |
| <b>Shaft Slinger Indicator</b>       | <b>No Slinger</b>            |
| <b>Speed</b>                         | <b>1765 rpm</b>              |
| <b>Speed Code</b>                    | <b>Single Speed</b>          |
| <b>Starting Method</b>               | <b>Part Winding</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

| NP2094E06B03 |              |        |                |      |      |    |   |     |  |
|--------------|--------------|--------|----------------|------|------|----|---|-----|--|
| CAT.NO.      | EHM2523T-8   |        |                |      |      |    |   |     |  |
| SPEC.        | 39R006Y389G1 |        |                |      |      |    |   |     |  |
| HP           | 15           |        |                |      |      |    |   |     |  |
| VOLTS        | 200          |        |                |      |      |    |   |     |  |
| AMPS         | 41           |        |                |      |      |    |   |     |  |
| RPM          | 1765         |        |                |      |      |    |   |     |  |
| FRAME        | 254T         |        | HZ             | 60   |      | PH | 3 |     |  |
| SER.F.       | 1.15         | CODE   | H              | DES  | A    | CL | F |     |  |
| NEMA-NOM-EFF | 93           |        | PF             | 85   |      |    |   |     |  |
| RATING       | 40C AMB-CONT |        |                |      |      |    |   |     |  |
| CC           | 010A         |        | USABLE AT 208V |      |      |    |   | N/A |  |
| DE           | 6309         |        | ODE            | 6208 |      |    |   |     |  |
| AUTO         |              | MANUAL |                |      | NONE |    |   |     |  |
| ENCL         | OPSB         | SN     |                |      |      |    |   |     |  |
| BLANK        |              |        |                |      |      |    |   |     |  |

**AC Induction Motor Performance Data**

Record # 67364

Typical performance - not guaranteed values

| Winding: 39WGY389-R001 |    |              |              | Type: 3948M                     |                       | Enclosure: OPSB |         |
|------------------------|----|--------------|--------------|---------------------------------|-----------------------|-----------------|---------|
| Nameplate Data         |    |              |              | 200 V, 60 Hz:<br>Run Connection |                       |                 |         |
| Rated Output (HP)      |    | 15           |              | Full Load Torque                |                       | 44.48 LB-FT     |         |
| Volts                  |    | 200          |              | Start Configuration             |                       | direct on line  |         |
| Full Load Amps         |    | 41           |              | Breakdown Torque                |                       | 145 LB-FT       |         |
| R.P.M.                 |    | 1765         |              | Pull-up Torque                  |                       | 62.18 LB-FT     |         |
| Hz                     | 60 | Phase        | 3            | Locked-rotor Torque             |                       | 79.47 LB-FT     |         |
| NEMA Design Code       |    | A            | KVA Code     | H                               | Starting Current      |                 | 277 A   |
| Service Factor (S.F.)  |    | 1.15         |              | No-load Current                 |                       | 15.15 A         |         |
| NEMA Nom. Eff.         |    | 93           | Power Factor | 85                              | Line-line Res. @ 25°C |                 | 0.108 Ω |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load         |                       | 26°C            |         |
| S.F. Amps              |    |              |              | Temp. Rise @ S.F. Load          |                       | 32°C            |         |
|                        |    |              |              | Locked-rotor Power Factor       |                       | 32.9            |         |
|                        |    |              |              | Rotor inertia                   |                       | 2.1 LB-FT2      |         |

**Load Characteristics 200 V, 60 Hz, 15 HP**

| % of Rated Load | 25    | 50    | 75    | 100   | 125  | 150   | S.F. |
|-----------------|-------|-------|-------|-------|------|-------|------|
| Power Factor    | 50    | 72    | 81    | 85    | 87   | 87    | 86   |
| Efficiency      | 89.8  | 93    | 93.5  | 93    | 92.3 | 91.3  | 92.6 |
| Speed           | 1792  | 1785  | 1778  | 1769  | 1760 | 1750  | 1764 |
| Line amperes    | 18.08 | 24.24 | 31.96 | 40.84 | 50.2 | 60.92 | 46.5 |

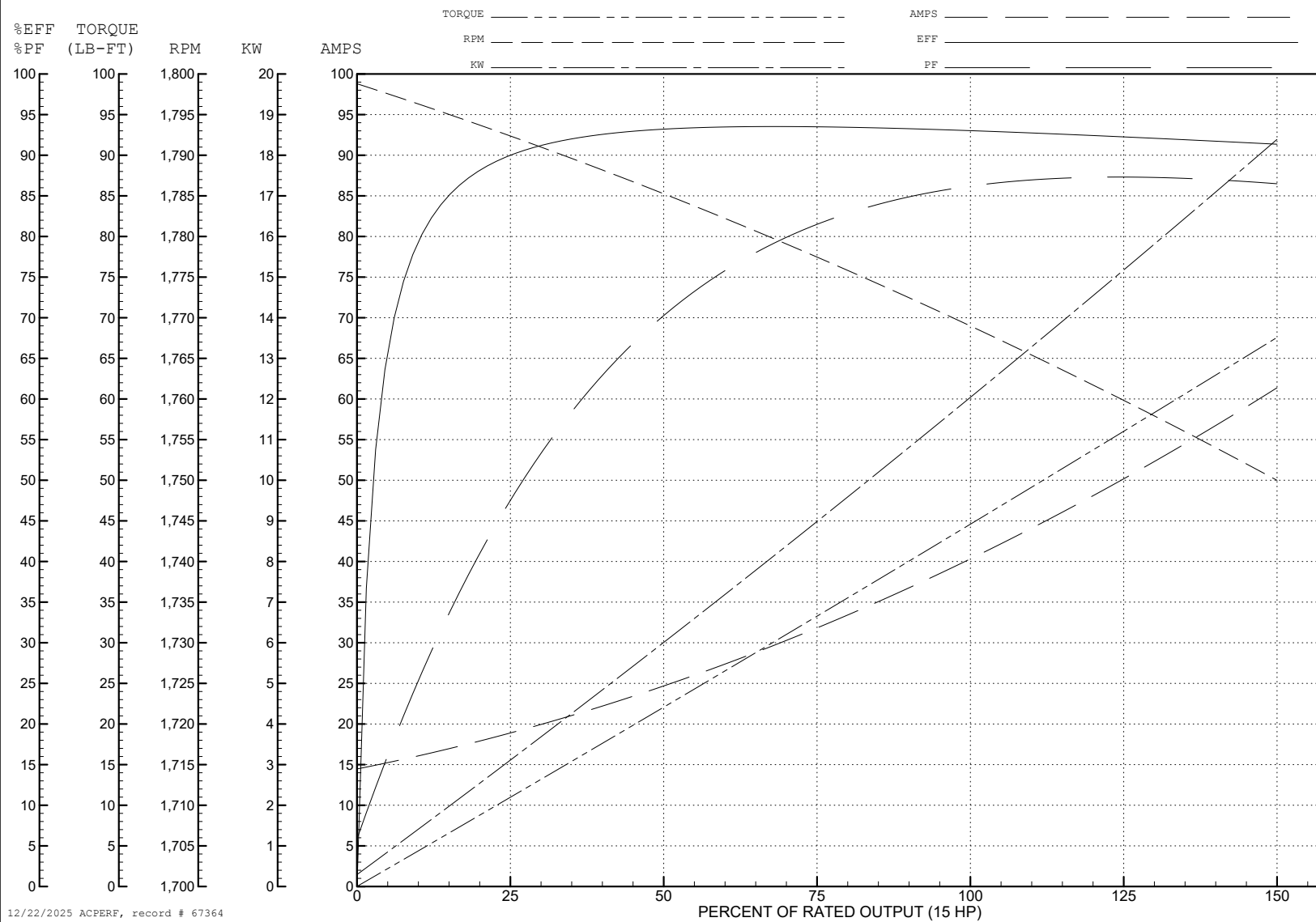
ABB Motors and Mechanical Inc.

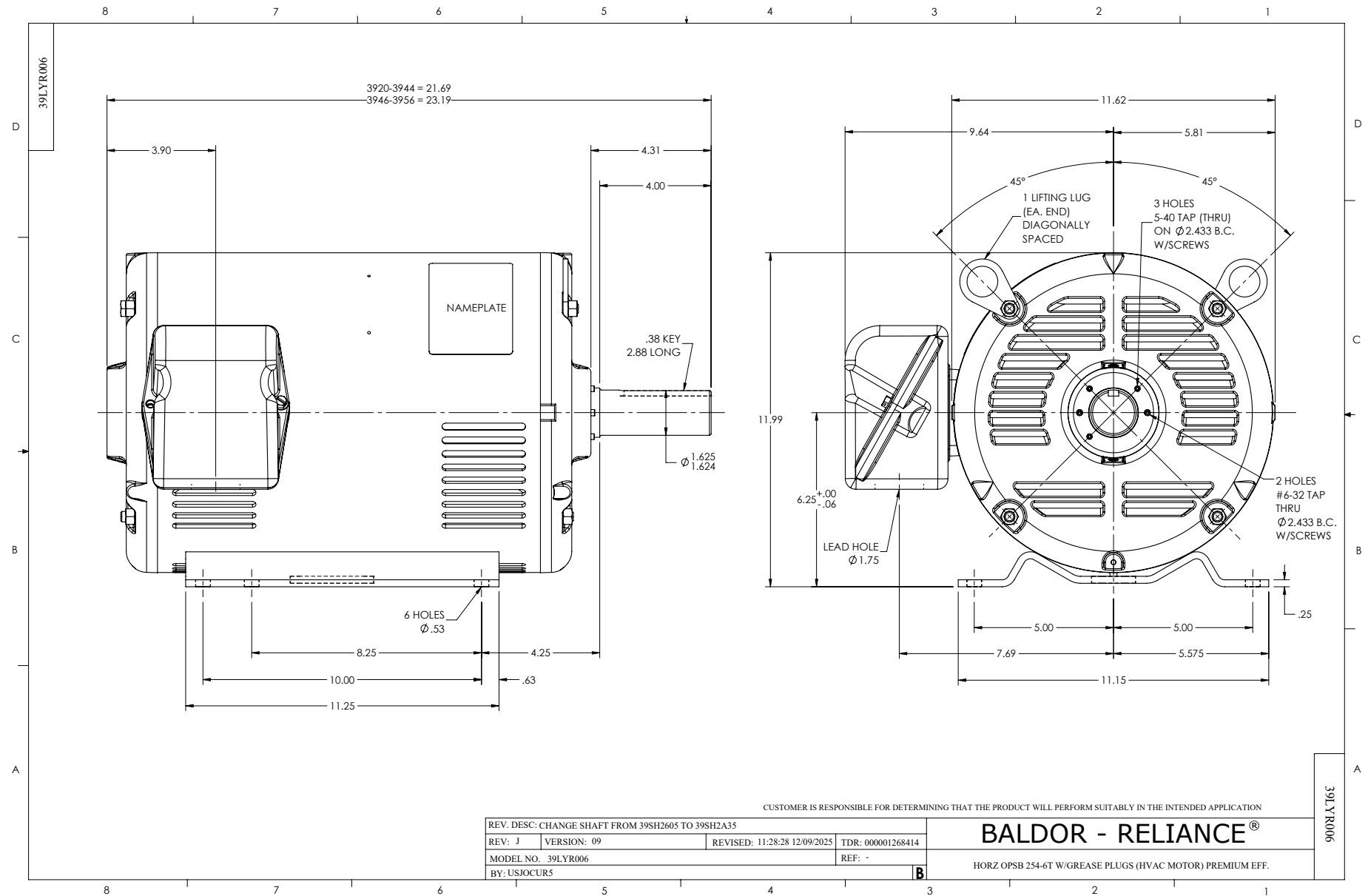
WINDING # 39WGY389

Typical performance - not guaranteed values.

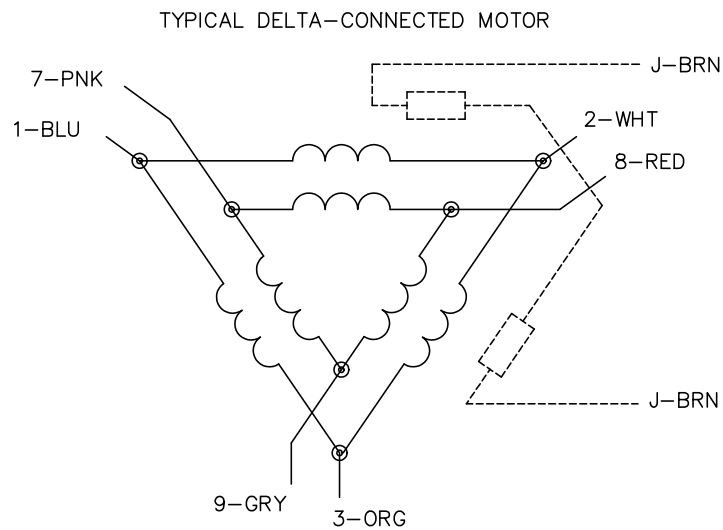
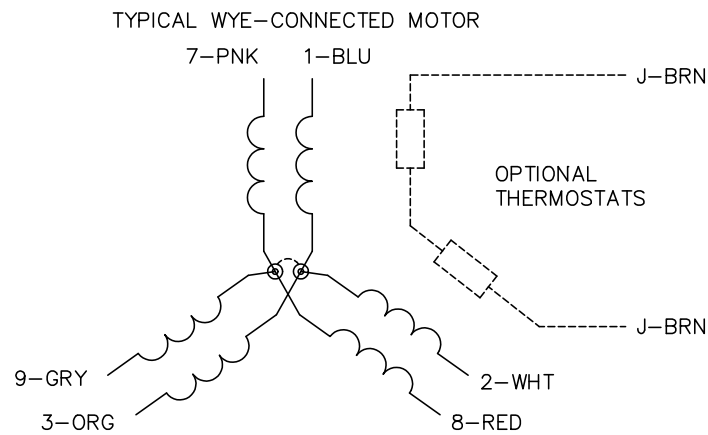
15 HP 3 PH 60 HZ 1765 RPM 200 V 3948M

TORQUES (LB-FT): PO=145 PU=62.18 LR=79.47 LRA=277

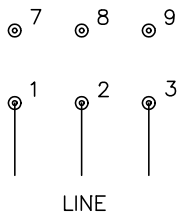




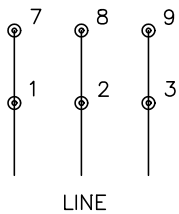
CD0695



START CONNECTION



RUN CONNECTION



NOTES:

1. MOTOR MAY BE WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0695

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: C

BY: JLP

REVISED: 01/21/99 3:19

TDR: 0171435

S69000

FILE: AAA00005151

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, SV, 6 LEADS, PART WINDING START