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# Customer information packet

## SPM3314T-G

15HP, 3515RPM, 3PH, 60HZ, 215T, 3756M, OPSB, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                          |
|--------------------------------|------------------------------------------|
| Enclosure                      | OPSB                                     |
| Frame                          | 215T                                     |
| 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  | 3600 RPM @ 60 HZ                         |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ       |
| Agency Approvals               | WEEE<br>NEMA PREMIUM                     |
| 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              | 17.000 A @ 460.0 V<br>34.000 A @ 230.0 V |
| Design Code                    | A                                        |
| Drip Cover                     | No Drip Cover                            |
| Duty Rating                    | CONT                                     |
| Efficiency @ 100% Load         | 92.4 %                                   |
| Electrically Isolated Bearing  | Not Electrically Isolated                |
| Feedback Device                | NO FEEDBACK                              |
| Front Shaft Indicator          | None                                     |
| Heater Indicator               | No Heater                                |
| High Voltage Full Load Amps    | 17.0 a                                   |
| Insulation Class               | F                                        |

## Part detail

|              |            |
|--------------|------------|
| Revision     | A          |
| Type         | AC         |
| Mech. spec.  | 37T743     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 37WGR601   |
| Layout       | 37LYT743   |
| Eff. date    | 11-19-2025 |
| CD Diagram   | CD0180     |
| Poles        | 02         |
| Leads        | 9#14       |
| Proprietary  | False      |
| Created date | 04-03-2025 |

|                                      |                              |
|--------------------------------------|------------------------------|
| <b>Inverter Code</b>                 | <b>Inverter Duty</b>         |
| <b>KVA Code</b>                      | <b>K</b>                     |
| <b>Lifting Lugs</b>                  | <b>Standard Lifting Lugs</b> |
| <b>Locked Bearing Indicator</b>      | <b>Locked Bearing</b>        |
| <b>Max Speed</b>                     | <b>5400 rpm</b>              |
| <b>Motor Lead Quantity/Wire Size</b> | <b>9 @ 14 AWG</b>            |
| <b>Motor Lead Termination</b>        | <b>Flying Leads</b>          |
| <b>Motor Standards</b>               | <b>NEMA</b>                  |
| <b>Motor Type</b>                    | <b>3756M</b>                 |
| <b>Mounting Arrangement</b>          | <b>F1</b>                    |
| <b>Number of Poles</b>               | <b>2</b>                     |
| <b>Overall Length</b>                | <b>18.95 IN</b>              |
| <b>Power Factor</b>                  | <b>88</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>RoHS Status</b>                   | <b>ROHS COMPLIANT</b>        |
| <b>Service Factor</b>                | <b>1.25</b>                  |
| <b>Shaft Diameter</b>                | <b>1.375 IN</b>              |
| <b>Shaft Ground Indicator</b>        | <b>Shaft Grounding</b>       |
| <b>Shaft Rotation</b>                | <b>Reversible</b>            |
| <b>Shaft Slinger Indicator</b>       | <b>No Slinger</b>            |
| <b>Speed</b>                         | <b>3515 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>                  |

| NP4423A01A01L |               |         |           |      |               |      |       |      |       |  |  |  |
|---------------|---------------|---------|-----------|------|---------------|------|-------|------|-------|--|--|--|
| CAT #         | SPM3314T-G    |         |           |      | WGT           | 187  | LBS   |      |       |  |  |  |
| SPEC          | 37T743R601    |         |           |      | ENCL          | OPSB |       |      |       |  |  |  |
| SER #         |               |         |           |      | CC            | 010A | IP    | 23   |       |  |  |  |
| HP            | 15            | MAG CUR |           |      | 11.6/5.8      |      |       |      |       |  |  |  |
| VOLTS         | 230/460       |         |           |      | NEMA NOM. EFF |      |       | 92.4 |       |  |  |  |
| AMPS          | 34/17         |         |           |      |               | PF   | 88    |      |       |  |  |  |
| RATING        | 40C AMB-CONT  |         |           |      |               |      |       |      |       |  |  |  |
| RPM           | 3515          |         |           |      | MAX RPM       |      | 5400  |      |       |  |  |  |
| FRAME         | 215T          | HZ      | 60        | CODE |               | K    | CLASS | H    |       |  |  |  |
| SER.F.        | 1.25          | SF AMP  | 41.8/20.9 |      |               | PH   | 3     | DES  | A     |  |  |  |
| DE            | 6307          |         | ODE       | 6206 |               |      |       |      |       |  |  |  |
| LUBRICATION   | POLYREX EM    |         |           |      |               |      |       |      |       |  |  |  |
| ID LOGO       | INVERTER TYPE |         | VPWM      |      | CHP           | 60   | TO    | 90   | 1.5:1 |  |  |  |
| ID LOGO       | WK2           | 0.51    | CT        | 6    | TO            | 60   | 10:1  |      |       |  |  |  |
| ID LOGO       | SL HZ         | 1.4     | VT        | 3    | TO            | 60   | 20:1  |      |       |  |  |  |
|               |               |         |           |      |               |      |       |      |       |  |  |  |
|               |               |         |           |      |               |      |       |      |       |  |  |  |
|               |               |         |           |      |               |      |       |      |       |  |  |  |
|               |               |         |           |      |               |      |       |      |       |  |  |  |
|               |               |         |           |      |               |      |       |      |       |  |  |  |
|               |               |         |           |      |               | QR   |       |      |       |  |  |  |
| YR            |               |         |           |      |               |      |       |      |       |  |  |  |

## AC Induction Motor Performance Data

Record # 112293

Preliminary Data Sheet

| Winding: 37WGR601-R008 |    |              | Type: 3756M  |                                          | Enclosure: ODP        |                |         |
|------------------------|----|--------------|--------------|------------------------------------------|-----------------------|----------------|---------|
| Nameplate Data         |    |              |              | 460 V, 60 Hz:<br>High Voltage Connection |                       |                |         |
| Rated Output (HP)      |    | 15           |              | Full Load Torque                         |                       | 22.09 LB-FT    |         |
| Volts                  |    | 230/460      |              | Start Configuration                      |                       | direct on line |         |
| Full Load Amps         |    | 34/17        |              | Breakdown Torque                         |                       | 112 LB-FT      |         |
| R.P.M.                 |    | 3515         |              | Pull-up Torque                           |                       | 43.2 LB-FT     |         |
| Hz                     | 60 | Phase        | 3            | Locked-rotor Torque                      |                       | 62 LB-FT       |         |
| NEMA Design Code       |    | A            | KVA Code     | K                                        | Starting Current      |                | 161 A   |
| Service Factor (S.F.)  |    | 1.25         |              | No-load Current                          |                       | 5.75 A         |         |
| NEMA Nom. Eff.         |    | 92.4         | Power Factor | 88                                       | Line-line Res. @ 25°C |                | 0.406 Ω |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load                  |                       | 63°C           |         |
| S.F. Amps              |    | 41.8/20.9    |              | Temp. Rise @ S.F. Load                   |                       | 85°C           |         |
|                        |    |              |              | Locked-rotor Power Factor                |                       | 29.9           |         |
|                        |    |              |              | Rotor inertia                            |                       | 0.51 lb-ft²    |         |

## Load Characteristics 460 V, 60 Hz, 15 HP

| % of Rated Load | 25   | 50   | 75   | 100   | 125  | 150   | S.F. |
|-----------------|------|------|------|-------|------|-------|------|
| Power Factor    | 53   | 76   | 85   | 88    | 90   | 90    | 90   |
| Efficiency      | 89.4 | 92.8 | 93.2 | 92.7  | 91.9 | 90.8  | 91.9 |
| Speed           | 3580 | 3561 | 3539 | 3516  | 3491 | 3465  | 3491 |
| Line amperes    | 6.81 | 9.54 | 13.1 | 16.95 | 20.9 | 25.31 | 20.9 |

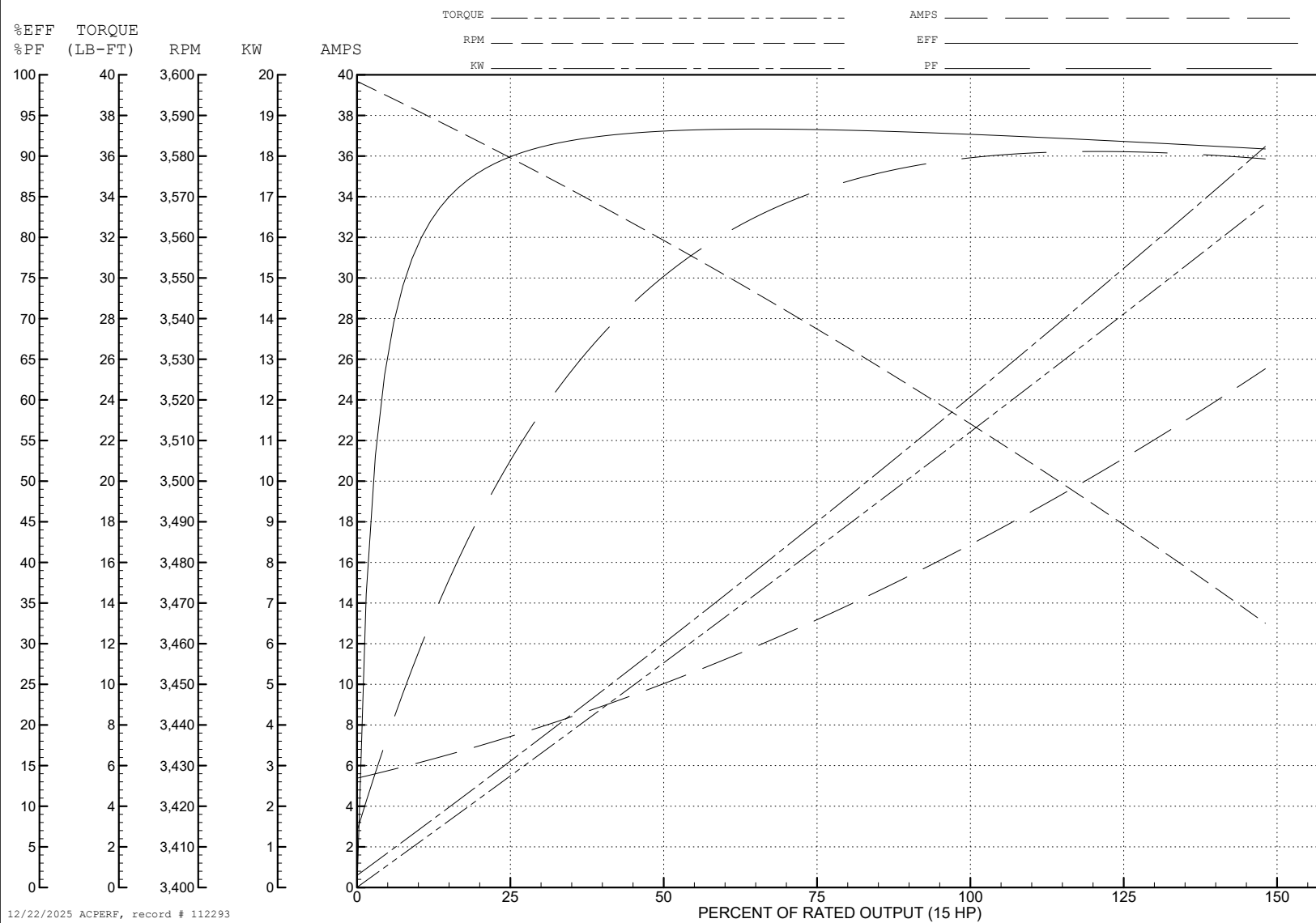
ABB Motors and Mechanical Inc.

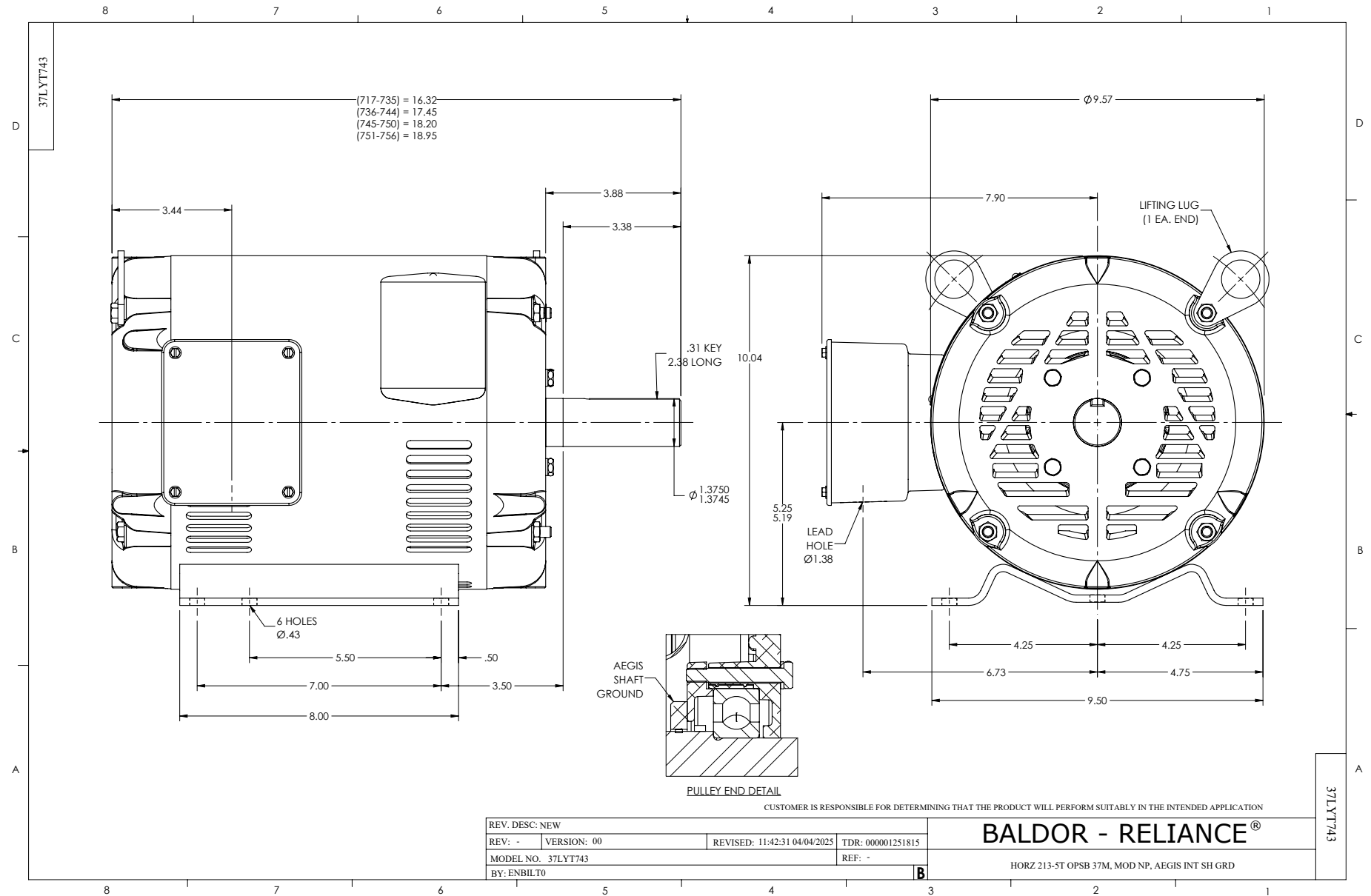
WINDING # 37WGR601

Typical performance - not guaranteed values.

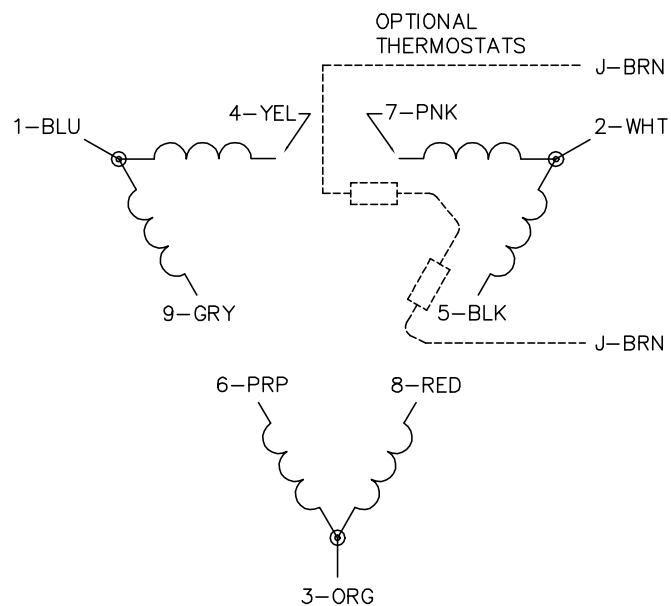
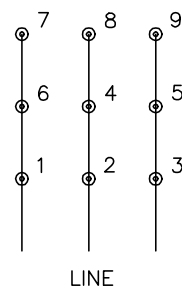
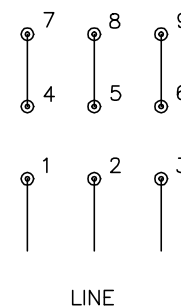
15 HP 3 PH 60 HZ 3515 RPM 460 V 3756M

TORQUES (LB-FT): PO=112 PU=43.2 LR=62 LRA=161





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

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

SH 1 of 1