ABB BALDOR RELIANCE

# Customer information packet

## EFM2515T-8

20HP, 1765RPM, 3PH, 60HZ, 256T, 3948M, OPSB, F2
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | OPSB |
| **Frame** | 256T |
| **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** | 20.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 200.0 V @ 60 HZ |
| **Agency Approvals** | NEMA PREMIUM<br>CURUSEEV<br>NEMA PREMIUM (OLD LOGO) |
| **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** | 55.000 A @ 200.0 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** | 55.0 a |
| **Insulation Class** | F |

## Part Detail

| | |
|---|---|
| **Revision** | M |
| **Type** | AC |
| **Mech. spec.** | 39K70 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 39WGX981 |
| **Layout** | 39LYK070 |
| **Eff. date** | 12-12-2025 |
| **CD Diagram** | CD0695 |
| **Poles** | 04 |
| **Leads** | 6#8 |
| **Proprietary** | False |
| **Created date** | 06-20-2016 |

| | |
|---|---|
| **Inverter Code** | Inverter Ready |
| **IP Rating** | NONE |
| **KVA Code** | G |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 6 @ 8 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3948M |
| **Mounting Arrangement** | F2 |
| **Number of Poles** | 4 |
| **Overall Length** | 23.19 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** | 1.625 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1765 rpm |
| **Speed Code** | Single Speed |
| **Starting Method** | Part Winding |
| **Thermal Device - Bearing** | None |
| **Thermal Device - Winding** | None |
| **Vibration Sensor Indicator** | No Vibration Sensor |
| **Winding Thermal 1** | None |
| **Winding Thermal 2** | None |

**Nameplate**

| NP1259L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | EFM2515T-8 | | | | | | | | | | |
| **SPEC.** | 39K070X981G1 | | | | | | | | | | |
| **HP** | 20 | | | | | | | | | | |
| **VOLTS** | 200 | | | | | | | | | | |
| **AMP** | 55 | | | | | | | | | | |
| **RPM** | 1765 | | | | | | | | | | |
| **FRAME** | 256T | | **HZ** | 60 | | | **PH** | 3 | | | |
| **SER.F.** | 1.15 | **CODE** | G | **DES** | A | **CL** | F | | | | |
| **NEMA-NOM-EFF** | 93 | **PF** | 85 | | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | | |
| **CC** | 010A | | | | | | | | | | |
| **DE** | 6309 | | **ODE** | 6208 | | | | | | | |
| **ENCL** | OPSB | **SN** | | | | | | | | | |

**Accessories**

| Part number | Description | Multiplier |
|---|---|---|
| 39-3400 | C FACE KIT | A8 |

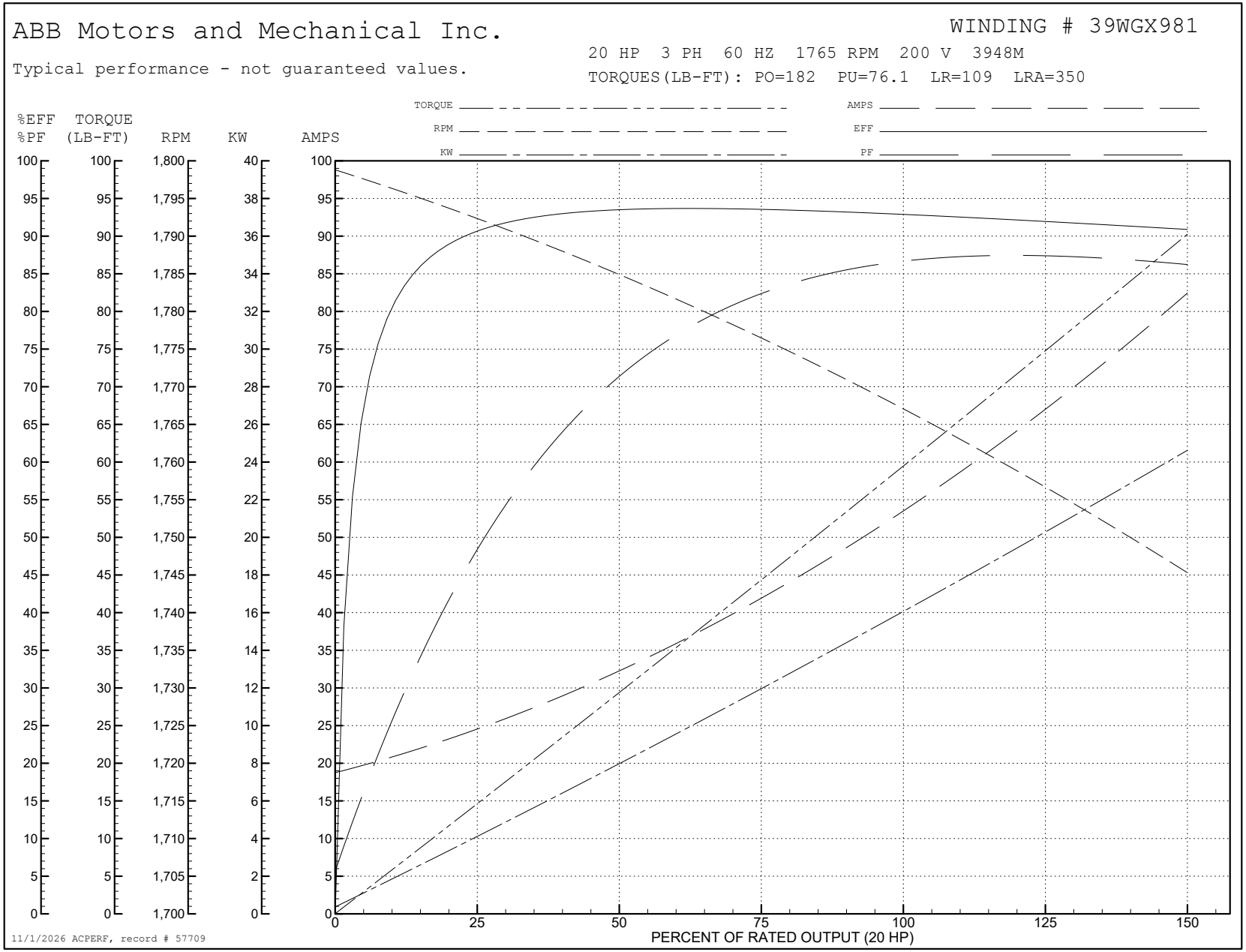
**AC Induction Motor Performance Data**
Record # 57709
Typical performance - not guaranteed values

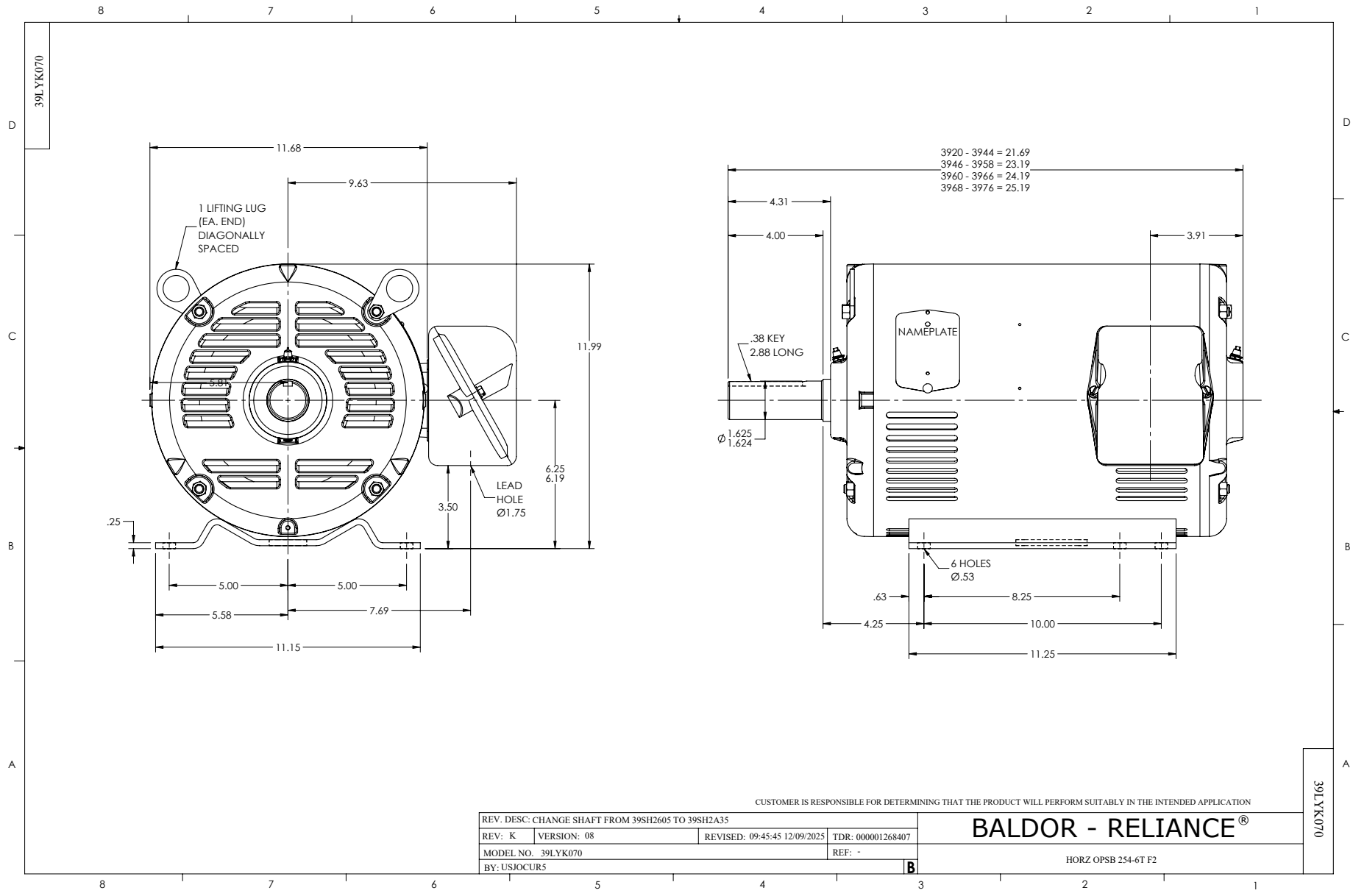
| **Winding:** 39WGX981-R001 | **Type:** 3948M | **Enclosure:** OPSB |
|---|---|---|

| **Nameplate Data** | | | | **200 V, 60 Hz: Single Voltage Motor** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 20 | **Full Load Torque** | 59.8 LB-FT |
| **Volts** | | | 200 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 55 | **Breakdown Torque** | 182 LB-FT |
| **R.P.M.** | | | 1765 | **Pull-up Torque** | 76.1 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 109 LB-FT |
| **NEMA Design Code** | A | **KVA Code** | G | **Starting Current** | 350 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 19.6 A |
| **NEMA Nom. Eff.** | 93 | **Power Factor** | 85 | **Line-line Res. @ 25ºC** | 0.0886 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 37°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 46°C |
| | | | | **Locked-rotor Power Factor** | 33.3 |
| | | | | **Rotor inertia** | 2.1 LB-FT2 |

**Load Characteristics 200 V, 60 Hz, 20 HP**

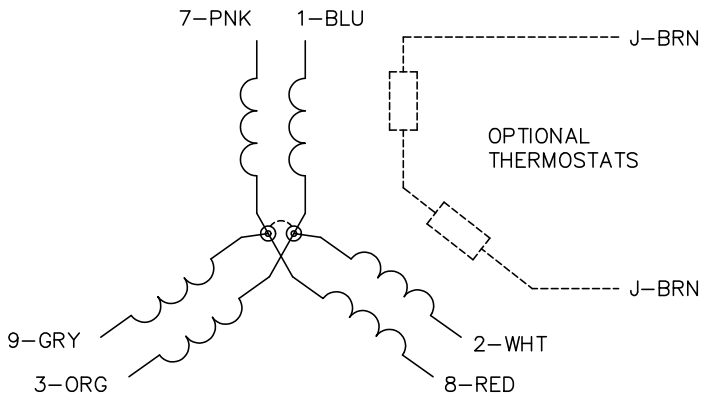
| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 51 | 73 | 82 | 85 | 87 | 87 | 86 |
| **Efficiency** | 90.5 | 93.3 | 93.5 | 93.1 | 92.1 | 90.8 | 92.5 |
| **Speed** | 1792 | 1785 | 1776 | 1767 | 1757 | 1745 | 1761 |
| **Line amperes** | 23.5 | 31.7 | 42.4 | 54.5 | 67.5 | 81.9 | 62.3 |


ABB Motors and Mechanical Inc.
WINDING # 39WGX981
Typical performance - not guaranteed values.
20 HP 3 PH 60 HZ 1765 RPM 200 V 3948M
TORQUES(LB-FT): PO=182 PU=76.1 LR=109 LRA=350
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (20 HP)
11/1/2026 ACPERF, record # 57709

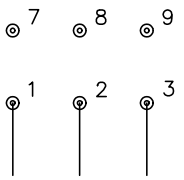

39LYK070
11.68
9.63
1 LIFTING LUG (EA. END) DIAGONALLY SPACED
11.99
5.81
6.25
6.19
3.50
LEAD HOLE Ø1.75
.25
5.00
5.00
5.58
7.69
11.15
3920 - 3944 = 21.69
3946 - 3958 = 23.19
3960 - 3966 = 24.19
3968 - 3976 = 25.19
4.31
4.00
3.91
NAMEPLATE
.38 KEY
2.88 LONG
Ø 1.625
1.624
6 HOLES Ø.53
.63
8.25
4.25
10.00
11.25
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHANGE SHAFT FROM 39SH2605 TO 39SH2A35
REV: K
VERSION: 08
REVISED: 09:45:45 12/09/2025
TDR: 000001268407
MODEL NO. 39LYK070
REF: -
BY: USJOCUR5
B
BALDOR - RELIANCE®
HORZ OPSB 254-6T F2
39LYK070

CD0695

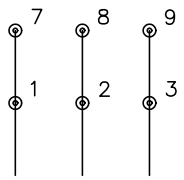
TYPICAL WYE–CONNECTED MOTOR



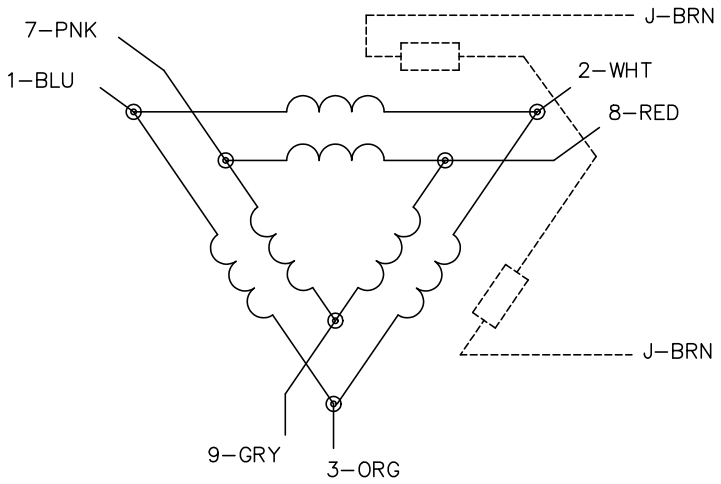

START CONNECTION




RUN CONNECTION




TYPICAL DELTA–CONNECTED MOTOR




NOTES:

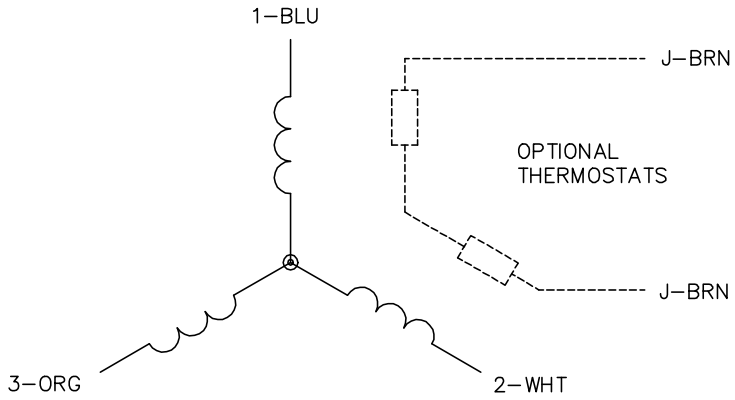
1. MOTOR MAY BE WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

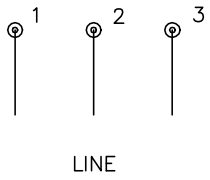
CD0695

| | | | |
|---|---|---|---|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS | | | BALDOR ELECTRIC Co. |
| REV. LTR: C | BY: JLP | REVISED: 01/21/99 3:19 | TDR: 0171435 |
| CD0695 | | FILE: AAA00005151 | MDL: – |
| | | MTL: – | 3PH, SV, 6 LEADS, PART WINDING START |

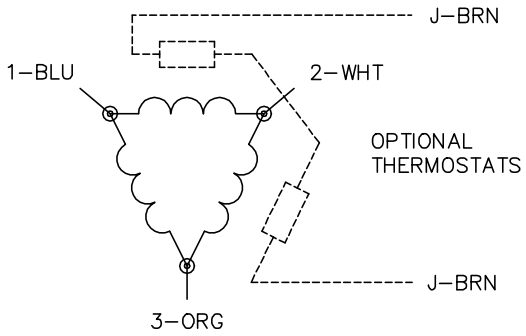
CD0006

TYPICAL WYE–CONNECTED MOTOR




TYPICAL DELTA–CONNECTED MOTOR




NOTES:

1. THREE LEAD MOTOR MAY BE EITHER 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 BE NUMBERED AS SHOWN.

CD0006

| | | |
|---|---|---|
| REV. DESC: ADD CLASS CONN00000007 | | |
| REV. LTR: E | VERSION: 01 | TDR: 000001099922 |
| FILE: \AAA\00005\141 | REVISED: 10:24:49 02/19/2019 | BY: ENBRIR0 |
| MTL: – | | |

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1