ABB BALDOR RELIANCE

# Customer information packet

## CEM3587T

2HP, 1760RPM, 3PH, 60HZ, 145TC, 0526M, TEFC, F1
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 145TC |
| **Frame Material** | Iron |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | None |
| **Haz Area Division** | Not Applicable |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 2.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 460.0 V @ 60 HZ |
| **Agency Approvals** | CURUSEEV |
| | 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** | 2.800 A @ 460.0 V |
| | 5.600 A @ 230.0 V |
| | 5.800 A @ 208.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 86.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 2.8 a |

## Part Detail

| | |
|---|---|
| **Revision** | H |
| **Type** | AC |
| **Mech. spec.** | 05C052 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 05WGX509 |
| **Layout** | 05LYC052 |
| **Eff. date** | 04-29-2024 |
| **CD Diagram** | CD0005 |
| **Poles** | 04 |
| **Leads** | 9#18 |
| **Proprietary** | False |
| **Created date** | 09-29-2021 |

| | |
|---|---|
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **KVA Code** | L |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Quantity/Wire Size** | 9 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 0526M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 13.04 IN |
| **Power Factor** | 76 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 0.875 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1760 rpm |
| **Speed Code** | Single Speed |
| **Starting Method** | Direct on line |
| **Thermal Device - Bearing** | None |
| **Thermal Device - Winding** | None |
| **Vibration Sensor Indicator** | No Vibration Sensor |
| **Winding Thermal 1** | None |
| **Winding Thermal 2** | None |

**Nameplate**

| NP3441LUA | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | CEM3587T | | | | | | | | | |
| **SPEC** | 05C052X509G1 | | | | | | | | | |
| **HP** | 2 | | | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | | | |
| **AMPS** | 5.6/2.8 | | | | | | | | | |
| **RPM** | 1760 | | | | | | | | | |
| **FRAME** | 145TC | **HZ** | 60 | **PH** | 3 | | | | | |
| **SF** | 1.15 | **CODE** | L | **DES** | B | **CLASS** | F | | | |
| **NEMA NOM. EFF** | 86.5 | **PF** | 76 | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | |
| **CC** | 010A | | | | | | | | | |
| **ENCL** | TEFC | **SER** | | | | | | | | |
| **DE** | 6205 | **ODE** | 6203 | | | | | | | |
| **VPWM INVERTER READY** | SFA 6.4/3.2 | | | | | | | | | |
| **CT6-60H(10:1)VT3-60H(20:1** | | | | | | | | | | |
| | 2HP 50HZ 190/380V 6.6/3.3A | | | | | | | | | SF1.0 |

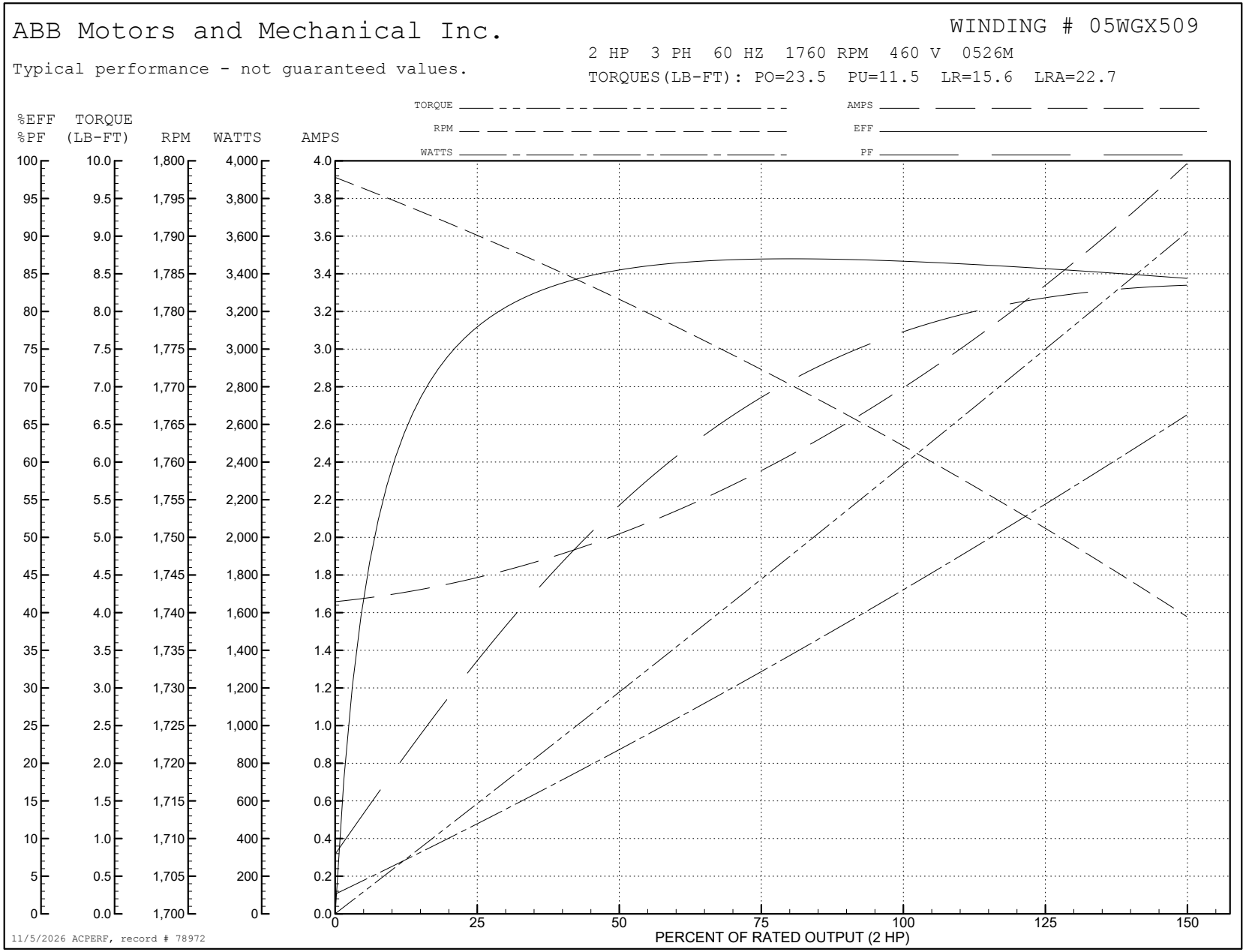
**AC Induction Motor Performance Data**
Record # 78972
Typical performance - not guaranteed values

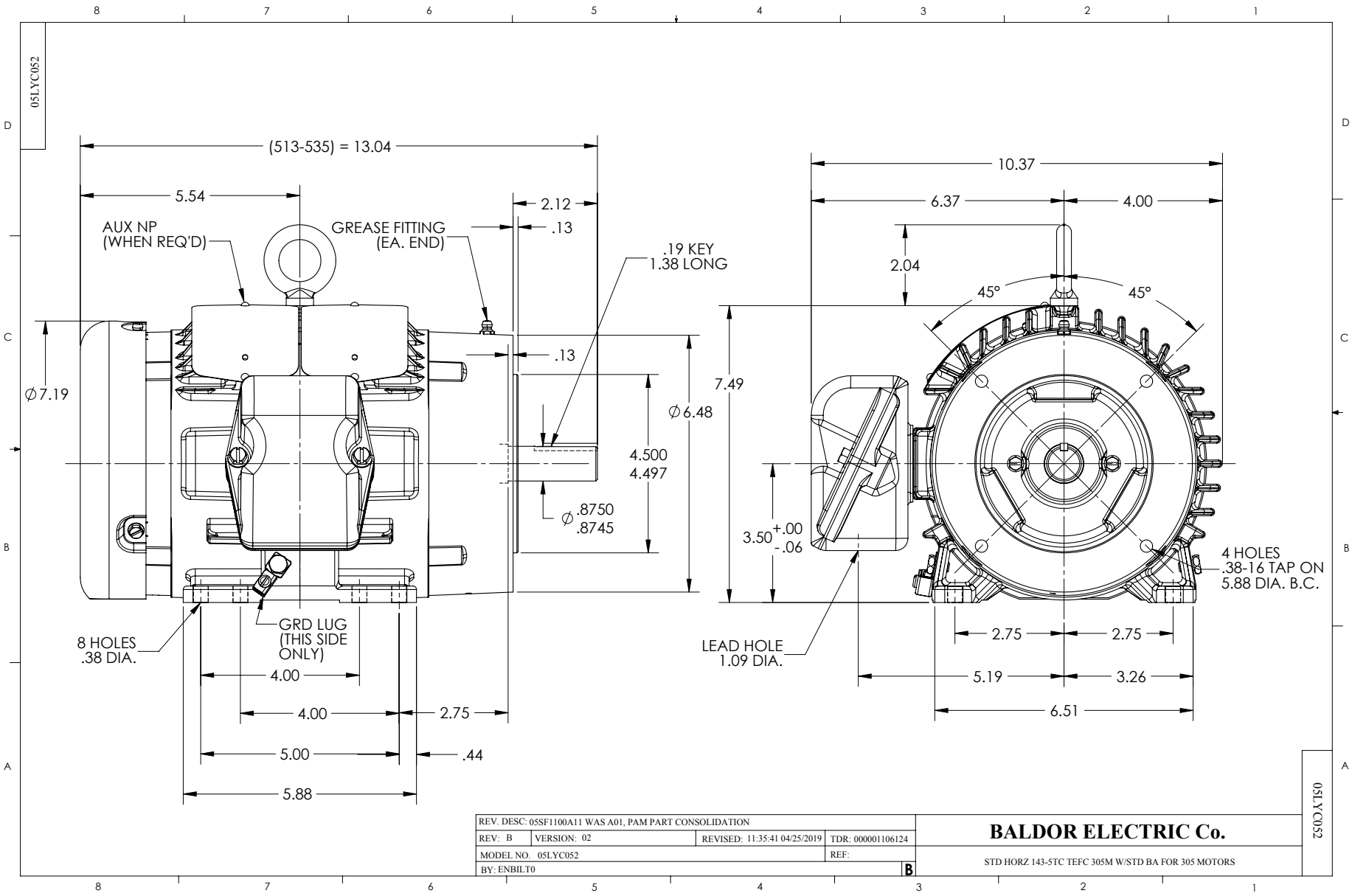
| **Winding:** 05WGX509-R001 | **Type:** 0526M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 2 | **Full Load Torque** | 5.976 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 5.6/2.8 | **Breakdown Torque** | 23.5 LB-FT |
| **R.P.M.** | | | 1760 | **Pull-up Torque** | 11.5 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 15.6 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | L | **Starting Current** | 22.7 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 1.69 A |
| **NEMA Nom. Eff.** | 86.5 | **Power Factor** | 75 | **Line-line Res. @ 25ºC** | 9.5456 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 40°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 48°C |
| | | | | **Locked-rotor Power Factor** | 58.1 |

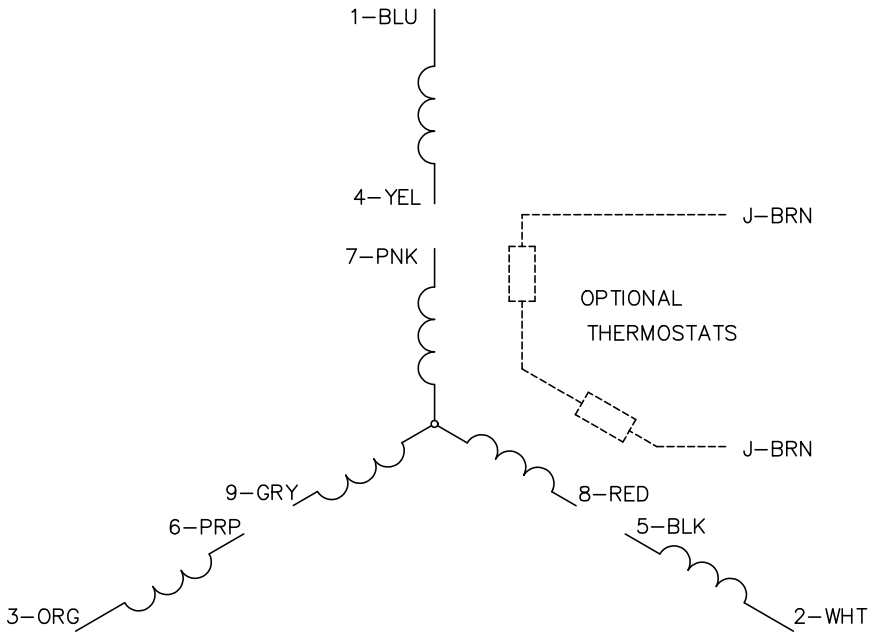
**Load Characteristics 460 V, 60 Hz, 2 HP**

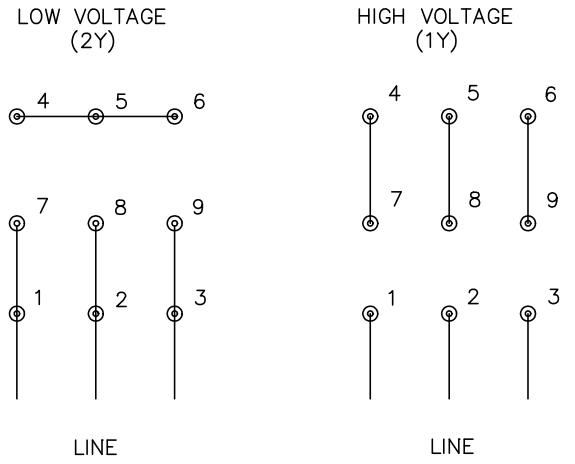
| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 34 | 55 | 68 | 77 | 81 | 84 | 79 |
| **Efficiency** | 77.5 | 85.2 | 86.9 | 86.8 | 85.8 | 84.3 | 86.2 |
| **Speed** | 1789.9 | 1781.4 | 1772.2 | 1762.2 | 1751.3 | 1739.3 | 1756 |
| **Line amperes** | 1.75 | 1.99 | 2.37 | 2.83 | 3.36 | 3.96 | 3.15 |


ABB Motors and Mechanical Inc.
WINDING # 05WGX509
Typical performance - not guaranteed values.
2 HP 3 PH 60 HZ 1760 RPM 460 V 0526M
TORQUES(LB-FT): PO=23.5 PU=11.5 LR=15.6 LRA=22.7
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (2 HP)
11/5/2026 ACPERF, record # 78972


05LYC052
(513-535) = 13.04
5.54
2.12
.13
AUX NP
(WHEN REQ'D)
GREASE FITTING
(EA. END)
.19 KEY
1.38 LONG
∅7.19
.13
∅6.48
4.500
4.497
∅.8750
.8745
8 HOLES
.38 DIA.
GRD LUG
(THIS SIDE
ONLY)
4.00
4.00
2.75
5.00
.44
5.88
10.37
6.37
4.00
2.04
45°
45°
7.49
3.50 +.00 -.06
4 HOLES
.38-16 TAP ON
5.88 DIA. B.C.
LEAD HOLE
1.09 DIA.
2.75
2.75
5.19
3.26
6.51
REV. DESC: 05SF1100A11 WAS A01, PAM PART CONSOLIDATION
REV: B
VERSION: 02
REVISED: 11:35:41 04/25/2019
TDR: 000001106124
MODEL NO. 05LYC052
REF:
BY: ENBILT0
B
BALDOR ELECTRIC Co.
STD HORZ 143-5TC TEFC 305M W/STD BA FOR 305 MOTORS
05LYC052

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.

CD0005

| | | | |
|---|---|---|---|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS | | | BALDOR ELECTRIC Co. |
| REV. LTR: E | BY: JLP | REVISED: 01/19/99 10:15 | TDR: 0171435 |
| CD0005 | | FILE: AAA00005140 | MDL: – |
| | | MTL: – | 3PH, DV, 9 LEADS |