ABB BALDOR RELIANCE

# Customer information packet

## ECP3774T

10HP, 1760RPM, 3PH, 60HZ, 215T, 0748M, TEFC, F1
Class - CLI GP A,B,C,D
Division - Division II

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 215T |
| **Frame Material** | Iron |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | CLI GP A,B,C,D |
| **Haz Area Division** | Division II |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 10.000 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** | CSA EEV |
| | NEMA PREMIUM |
| | NEMA_PREMIUM |
| | UR |
| | CCSA US |
| **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 |
| **Constant Torque Speed Range** | 1.3 |
| **Current @ Voltage** | 25.000 A @ 230.0 V |
| | 12.500 A @ 460.0 V |
| **Design Code** | A |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 92.4 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Enclosure Modification** | Severe Duty Features |

## Part Detail

| | |
|---|---|
| **Revision** | AD |
| **Type** | AC |
| **Mech. spec.** | 07K374 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 07WGX776 |
| **Layout** | 07LYK374 |
| **Eff. date** | 10-01-2025 |
| **CD Diagram** | CD0005 |
| **Poles** | 04 |
| **Leads** | 9#14 Y |
| **Proprietary** | False |
| **Created date** | 08-18-2006 |

| | |
|---|---|
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Standard |
| **Front Shaft Indicator** | None |
| **Haz Area Temp Code** | T3C |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 12.5 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **KVA Code** | H |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Max Speed** | 2700 rpm |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 9 @ 14 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 0748M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 19.50 IN |
| **Power Factor** | 82 |
| **Product Family** | Chemical Processing (Not DC) |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Standard |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 1.375 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | Shaft 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**

| NP3257 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | ECP3774T | | | | | | | |
| **SPEC.** | 07K374X776G1 | | | | | | | |
| **HP** | 10 TE | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | |
| **AMP** | 25/12.5 | | | | | | | |
| **RPM** | 1760 | | | | | | | |
| **FRAME** | 215T | **HZ** | 60 | | **PH** | 3 | | |
| **SER.F.** | 1.15 | **CODE** | H | **DES** | A | **CL** | F | |
| **RATING** | 40C AMB-CONT | | | | | | | |
| **SN** | | | | | | | | |
| **DE** | 6307 | **ODE** | 6307 | | | | | |
| **NEMA-NOM-EFF** | 92.4 | **PF** | 82 | | | | | |
| **G.MIN.EFF** | 91.0 | **CC** | 010A | | | | | |
| **T. CODE** | T3C | **T=** | 160 | | | | | |

| NP3260 | | | | | |
|---|---|---|---|---|---|
| **SPEC.** | 07K374X776G1 | | | | |
| **D.E. BRG.** | 35BC03XP30X | | | | |
| **O.D.E. BRG.** | 35BC03XP30X | | | | |
| **GREASE** | POLYREX EM | | | | |
| **RPM MAX** | 2700 | **MAX. KVAR** | 1.7 | | |
| | | | | | |
| **BLANK** | | | | | |
| **INV.TYPE** | PWM | | | | |
| **T=** | 160 | | | | |
| **C HP FR** | 60 | **C HP TO** | 90 | | |
| **CT HZ FROM** | 1.3 | **CT HZ TO** | 60 | | |
| **VT HZ FROM** | 0- | **VT HZ TO** | 60 | | |
| **HTR-VOLTS** | | **HTR-AMPS** | | | |
| **HTR-WATTS** | | **MAX. SPACE HEATER TEMP.** | | | |

**Accessories**

| Part number | Description | Multiplier |
|---|---|---|
| 37-1304 | C FACE KIT | A8 |

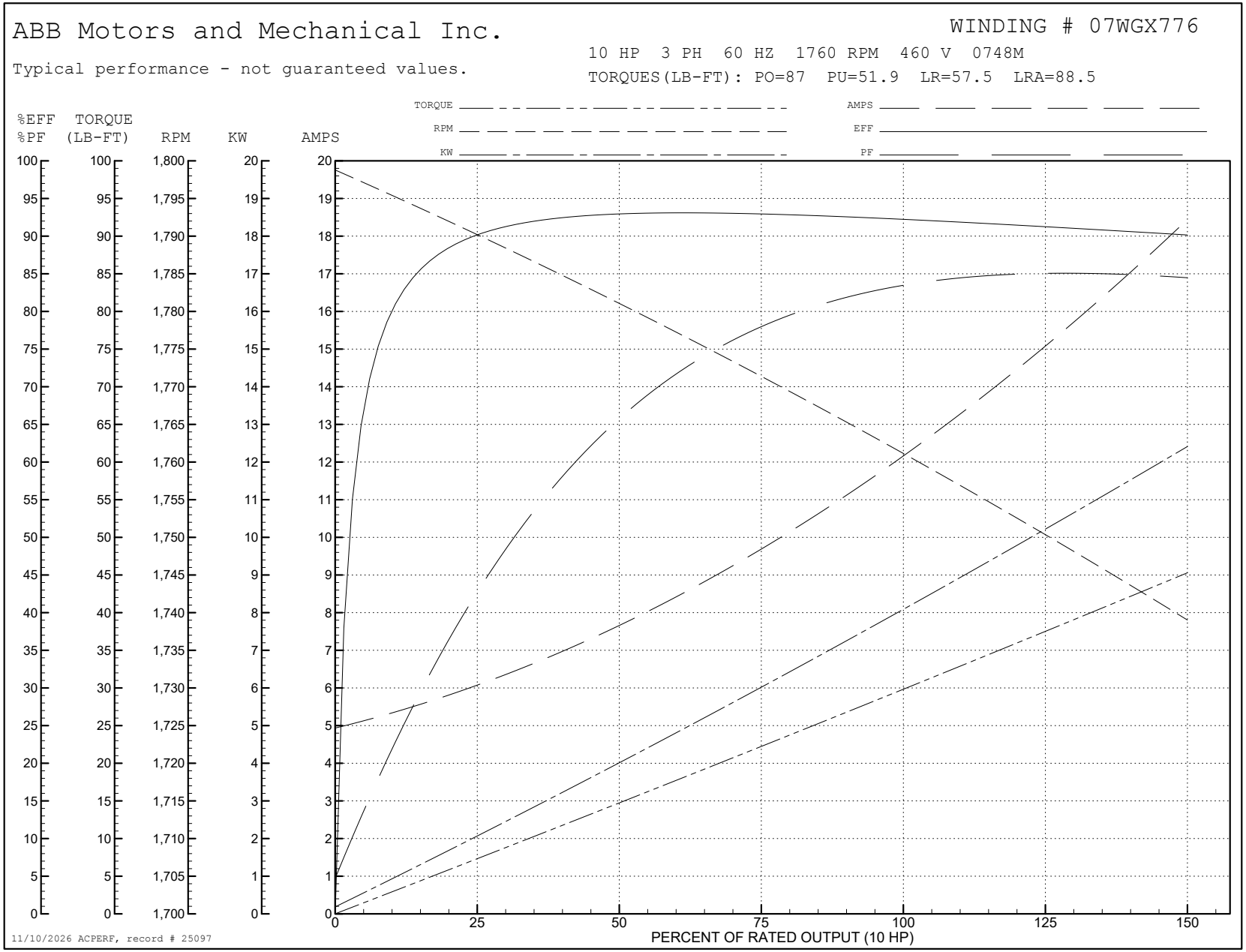
**AC Induction Motor Performance Data**
Record # 25097
Typical performance - not guaranteed values

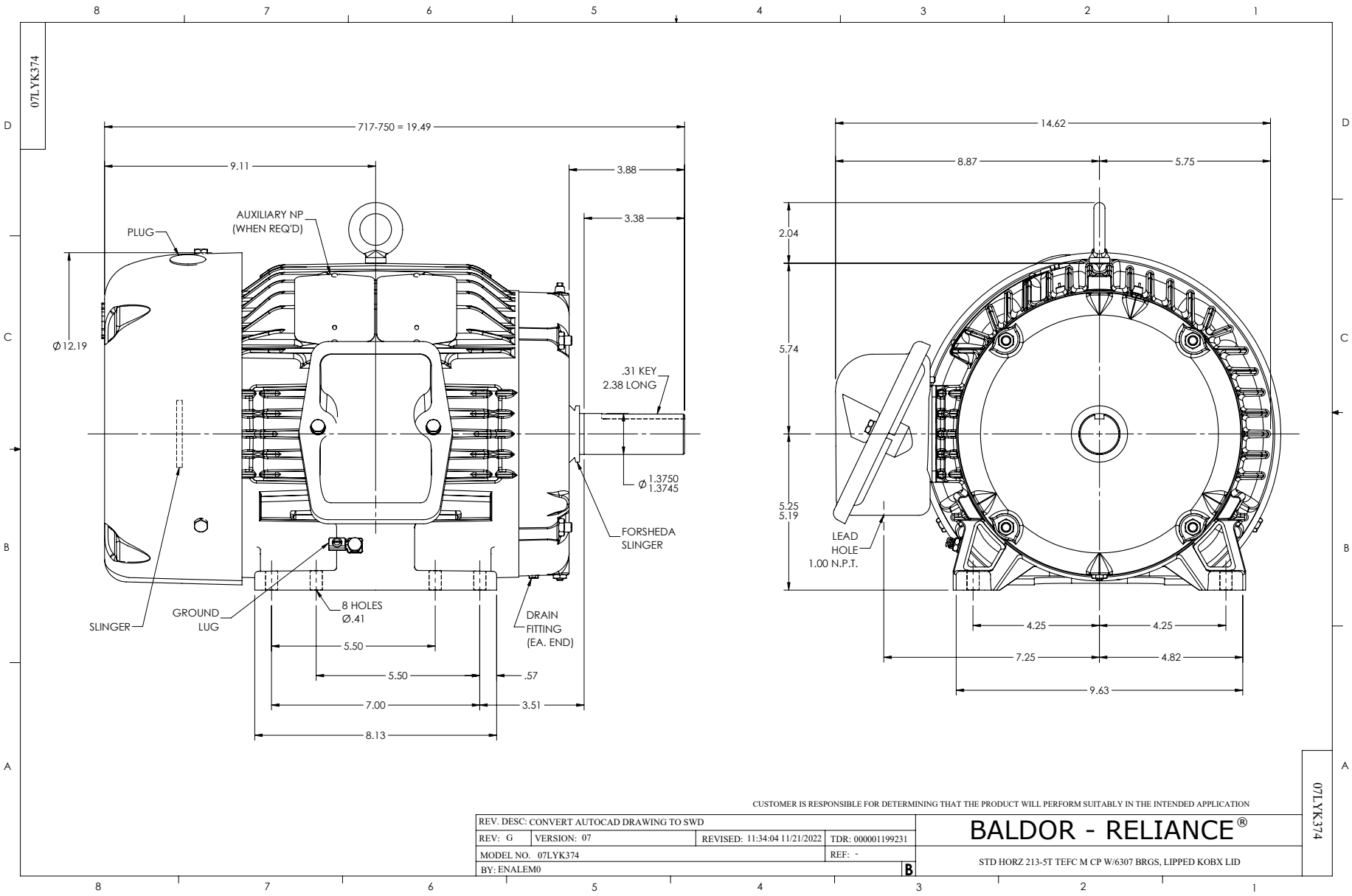
| **Winding:** 07WGX776-R016 | **Type:** 0748M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 10 | **Full Load Torque** | 29.8 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 25/12.5 | **Breakdown Torque** | 87 LB-FT |
| **R.P.M.** | | | 1760 | **Pull-up Torque** | 51.9 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 57.5 LB-FT |
| **NEMA Design Code** | A | **KVA Code** | H | **Starting Current** | 88.5 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 5.12 A |
| **NEMA Nom. Eff.** | 92.4 | **Power Factor** | 82 | **Line-line Res. @ 25ºC** | 0.973 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 60°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 76°C |
| | | | | **Locked-rotor Power Factor** | 35 |
| | | | | **Rotor inertia** | 1.18 LB-FT2 |

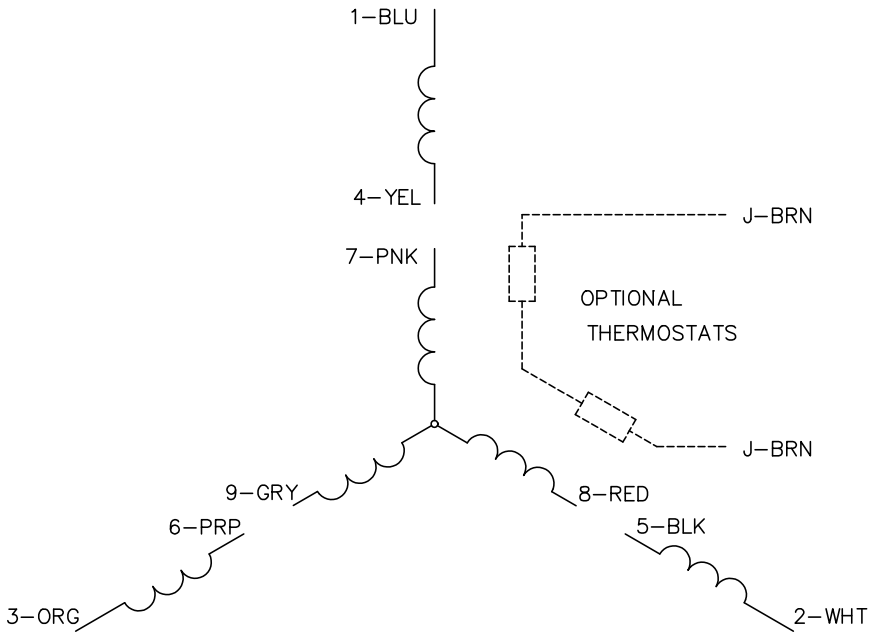
**Load Characteristics 460 V, 60 Hz, 10 HP**

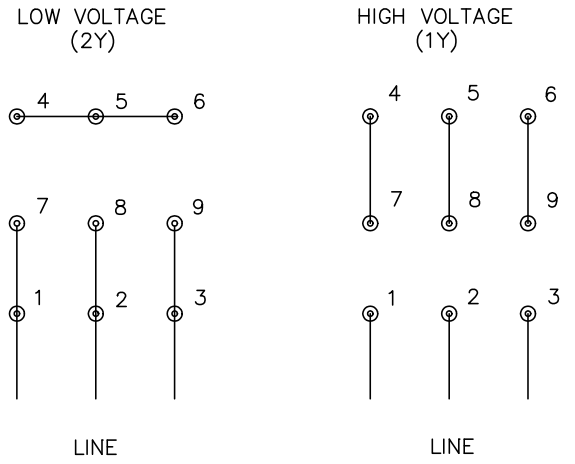
| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 44 | 67 | 78 | 82 | 84 | 85 | 83 |
| **Efficiency** | 90 | 92.9 | 93.1 | 92.5 | 91.4 | 90.1 | 91.8 |
| **Speed** | 1790 | 1781 | 1771 | 1762 | 1750 | 1739 | 1755 |
| **Line amperes** | 5.84 | 7.52 | 9.75 | 12.3 | 15.2 | 18.3 | 14 |


ABB Motors and Mechanical Inc.
WINDING # 07WGX776
10 HP 3 PH 60 HZ 1760 RPM 460 V 0748M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=87 PU=51.9 LR=57.5 LRA=88.5
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (10 HP)
11/10/2026 ACPERF, record # 25097


07LYK374
717-750 = 19.49
9.11
3.88
3.38
AUXILIARY NP
(WHEN REQ'D)
PLUG
Ø12.19
.31 KEY
2.38 LONG
Ø 1.3750
1.3745
FORSHEDA
SLINGER
SLINGER
GROUND
LUG
8 HOLES
Ø.41
DRAIN
FITTING
(EA. END)
5.50
5.50
.57
7.00
3.51
8.13
14.62
8.87
5.75
2.04
5.74
5.25
5.19
LEAD
HOLE
1.00 N.P.T.
4.25
4.25
7.25
4.82
9.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRAWING TO SWD
REV: G
VERSION: 07
REVISED: 11:34:04 11/21/2022
TDR: 000001199231
MODEL NO. 07LYK374
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 213-5T TEFC M CP W/6307 BRGS, LIPPED KOBX LID
07LYK374

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 |