ABB BALDOR RELIANCE

# Customer information packet

## CEM7018T-I

1.5//1HP, 3500//2900RPM, 3PH, 60//50HZ, 143T
Class - CLI GP C,D
Division - Division I

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/10/2026 6:54:35 AM

## Specifications

| | |
|---|---|
| **Enclosure** | XPFC |
| **Frame** | 143TC |
| **Frame Material** | Steel |
| **Frequency** | 50.00 Hz |
| | 60.00 Hz |
| **Haz Area Class and Group** | CLI GP C,D |
| **Haz Area Division** | Division I |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 1.000 HP @ 50 HZ |
| | 1.500 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 3000 RPM @ 50 HZ |
| **Voltage @ Frequency** | 380.0 V @ 50 HZ |
| | 230.0 V @ 60 HZ |
| | 190.0 V @ 50 HZ |
| | 460.0 V @ 60 HZ |
| **Agency Approvals** | CSA EEV |
| | CSA |
| | UL |
| | 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** | 3.400 A @ 190.0 V |
| | 3.800 A @ 230.0 V |
| | 1.900 A @ 460.0 V |
| | 1.700 A @ 380.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |

## Part Detail

| | |
|---|---|
| **Revision** | J |
| **Type** | AC |
| **Mech. spec.** | 35X732 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WGM760 |
| **Layout** | 35LYX732 |
| **Eff. date** | 02-21-2024 |
| **CD Diagram** | CD0005 |
| **Poles** | 02 |
| **Leads** | 9#18 |
| **Proprietary** | False |
| **Created date** | 11-21-2013 |

| | |
|---|---|
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 84.0 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **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** | 1.7 a |
| **Insulation Class** | F |
| **Inverter Code** | Not Inverter |
| **KVA Code** | L |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 9 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3520M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 14.36 IN |
| **Power Factor** | 85 |
| **Product Family** | Hazardous Location Motor |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **RoHS Status** | ROHS COMPLIANT |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 0.875 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |

| | |
|---|---|
| **Shaft Slinger Indicator** | Shaft Slinger |
| **Speed** | 2900 rpm |
| | 3500 rpm |
| **Speed Code** | Single Speed |
| **Starting Method** | Direct on line |
| **Thermal Device - Bearing** | None |
| **Thermal Device - Winding** | Normally Closed Thermostat |
| **Vibration Sensor Indicator** | No Vibration Sensor |
| **Winding Thermal 1** | None |
| **Winding Thermal 2** | None |

**Nameplate**

| NP0977XPSLEV | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **NO.** | | | | | | **CC** | 010A | | | | |
| **SER.** | | | | | | **TEMP CODE** | T3C | | | | |
| **SPEC.** | 35X732M760G1 | | | | | | | | | | |
| **CAT.NO.** | CEM7018T-I | | | | | | | | | | |
| **HP** | 1.5//1 | | | | | | | | | | |
| **VOLTS** | 230/460//190/380 | | | | | | | | | | |
| **AMPS** | 3.8/1.9//3.4/1.7 | | | | | | | | | | |
| **RPM** | 3500//2900 | | | | **MOTOR WEIGHT** | | | | | | |
| **HERTZ** | 60//50 | **PH** | 3 | **CL** | F | **DE BRG** | 6205 | | | | |
| **SER.F.** | 1.15 | **DES** | B | **CODE** | L | **ODE BRG** | 6203 | | | | |
| **FRAME** | 143TC | **GREASE** | POLYREX EM | | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | | |
| | | | | **NEMA-NOM-EFF** | | 84 | **PF** | 85 | | | |
| | NEMA MG-1 PT 5,IP55 | | | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 73829
Typical performance - not guaranteed values

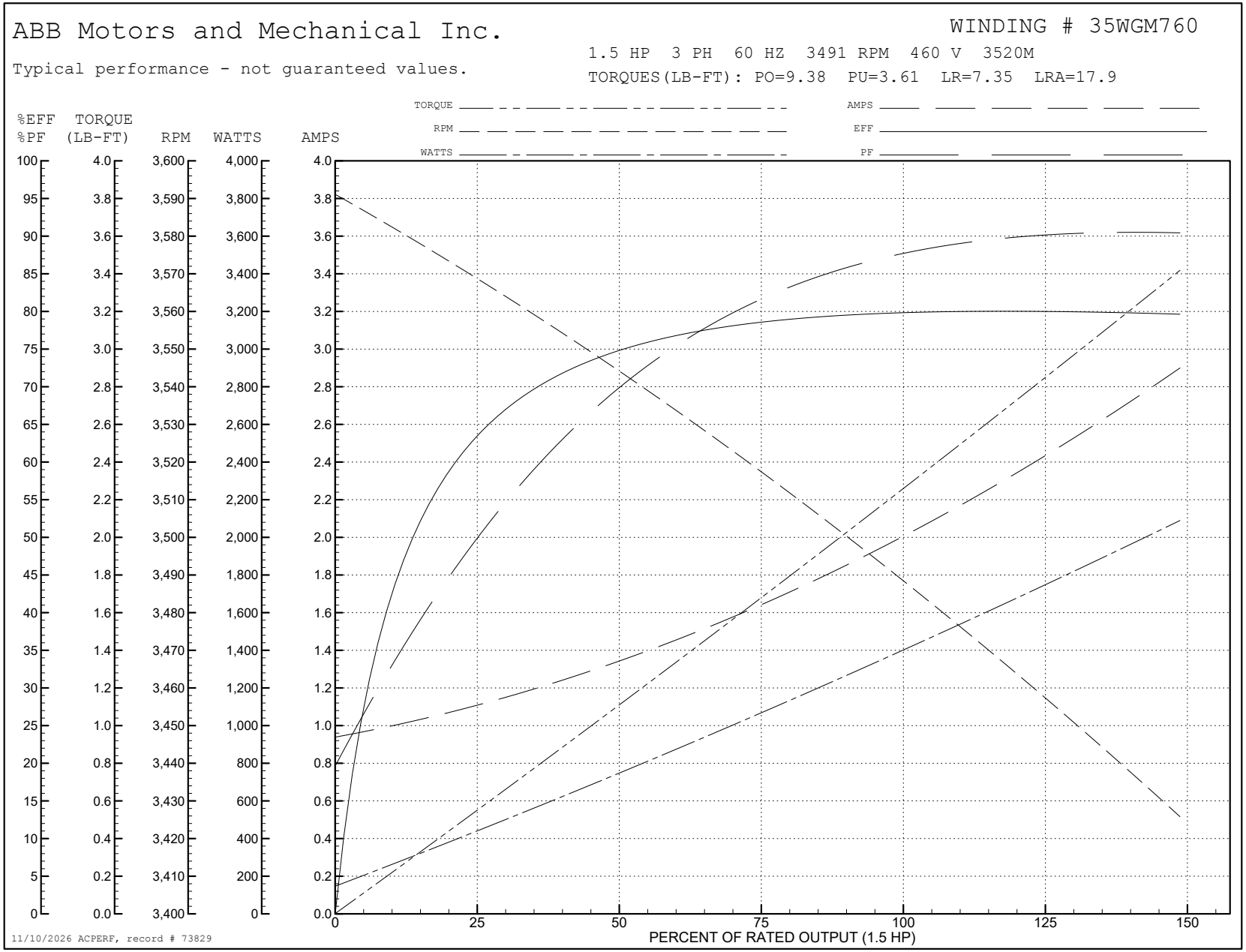
| **Winding:** 35WGM760-R091 | **Type:** 3520M | **Enclosure:** XPFC |
|---|---|---|

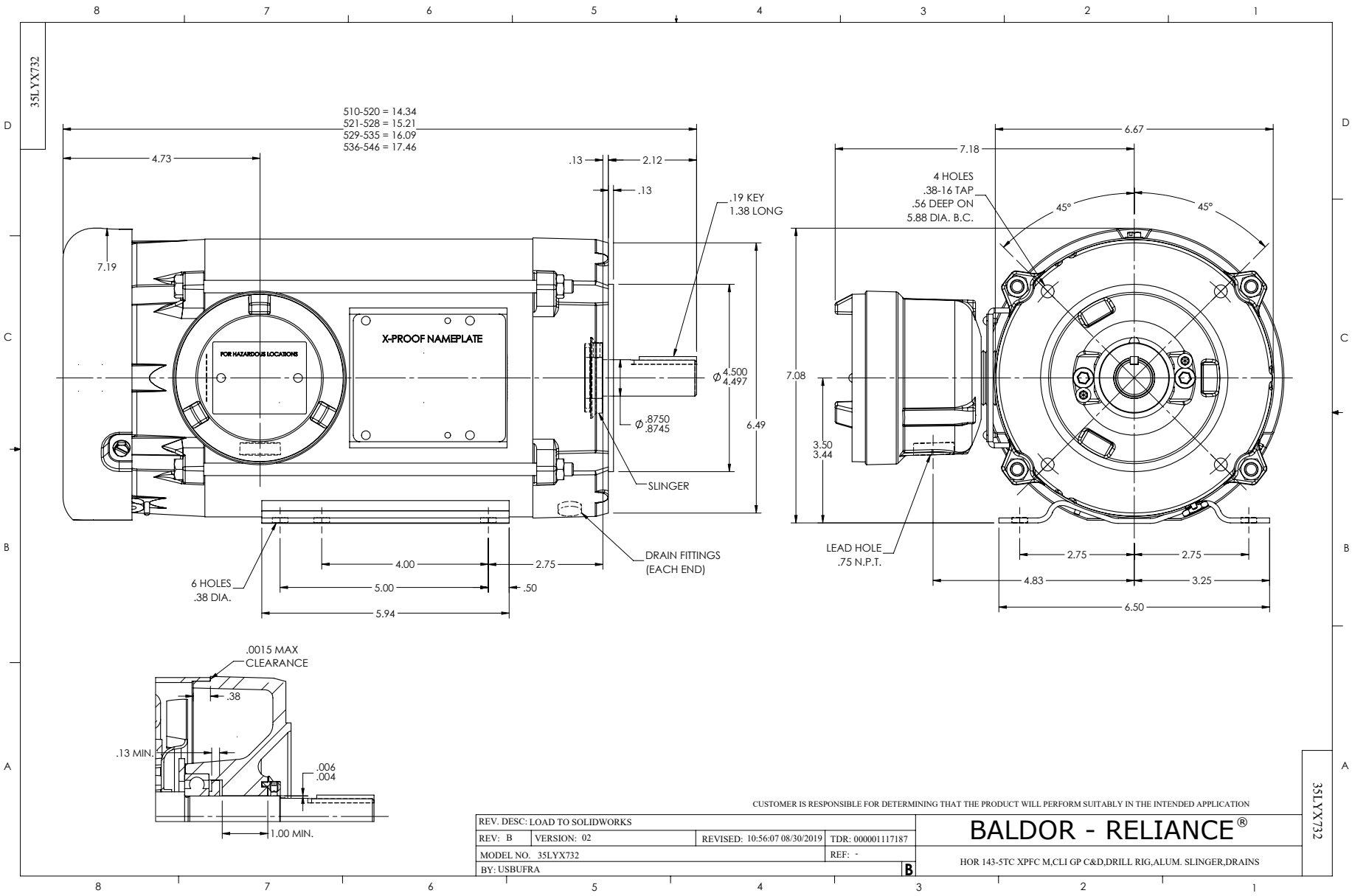
| **Nameplate Data** | | | |
|---|---|---|---|
| **Rated Output (HP)** | | | 1.5//1 |
| **Volts** | | | 230/460//190/380 |
| **Full Load Amps** | | | 3.8/1.9//3.4/1.7 |
| **R.P.M.** | | | 3500//2900 |
| **Hz** | 60//50 | **Phase** | 3 |
| **NEMA Design Code** | B | **KVA Code** | L |
| **Service Factor (S.F.)** | | | 1 |
| **NEMA Nom. Eff.** | 84 | **Power Factor** | 85 |
| **Rating - Duty** | | | 40C AMB-CONT |

| **460 V, 60 Hz: High Voltage, High Speed Connection** | |
|---|---|
| **Full Load Torque** | 2.23 LB-FT |
| **Start Configuration** | direct on line |
| **Breakdown Torque** | 9.38 LB-FT |
| **Pull-up Torque** | 3.61 LB-FT |
| **Locked-rotor Torque** | 7.35 LB-FT |
| **Starting Current** | 17.9 A |
| **No-load Current** | 0.951 A |
| **Line-line Res. @ 25ºC** | 12.2 Ω |
| **Temp. Rise @ Rated Load** | 46°C |
| **Locked-rotor Power Factor** | 60.1 |
| **Rotor inertia** | 0.0553 LB-FT2 |

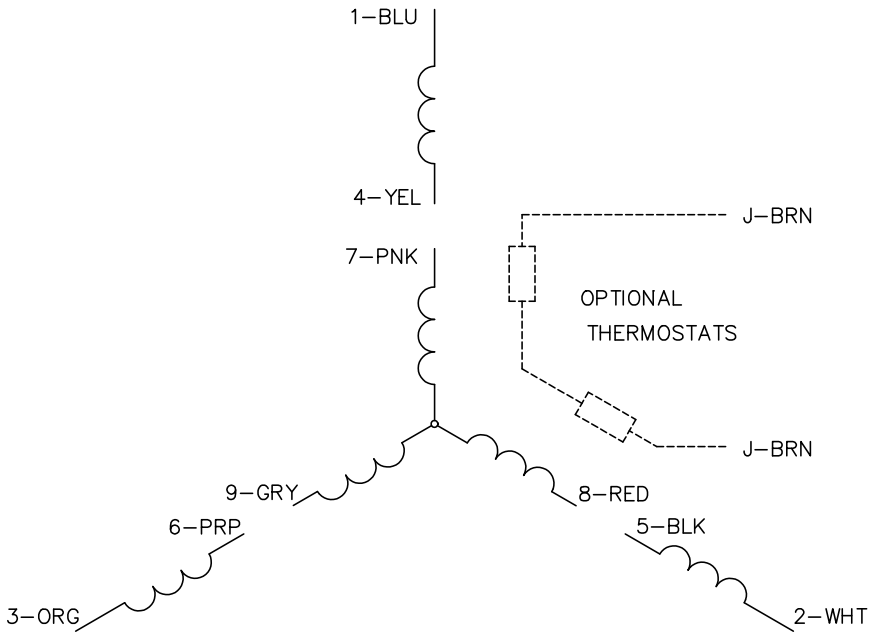
**Load Characteristics 460 V, 60 Hz, 1.5 HP**

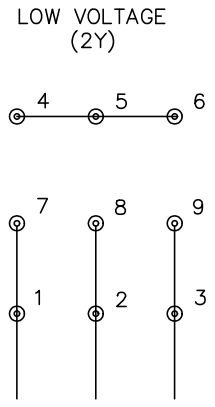
| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** |
|---|---|---|---|---|---|---|
| **Power Factor** | 50 | 70 | 81 | 87 | 90 | 91 |
| **Efficiency** | 61.4 | 74.1 | 78.3 | 80 | 80.3 | 79.3 |
| **Speed** | 3569 | 3545 | 3519 | 3491 | 3459 | 3425 |
| **Line amperes** | 1.08 | 1.32 | 1.63 | 2 | 2.41 | 2.9 |

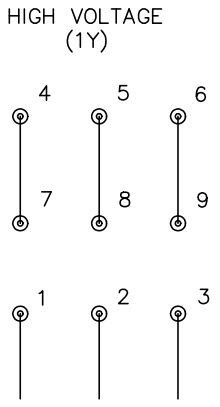

ABB Motors and Mechanical Inc.
WINDING # 35WGM760
1.5 HP 3 PH 60 HZ 3491 RPM 460 V 3520M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=9.38 PU=3.61 LR=7.35 LRA=17.9
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1.5 HP)
11/10/2026 ACPERF, record # 73829


35LYX732
510-520 = 14.34
521-528 = 15.21
529-535 = 16.09
536-546 = 17.46
4.73
.13
2.12
.13
.19 KEY
1.38 LONG
7.19
X-PROOF NAMEPLATE
FOR HAZARDOUS LOCATIONS
Ø 4.500
4.497
Ø .8750
.8745
6.49
SLINGER
DRAIN FITTINGS
(EACH END)
6 HOLES
.38 DIA.
4.00
2.75
5.00
.50
5.94
6.67
7.18
4 HOLES
.38-16 TAP
.56 DEEP ON
5.88 DIA. B.C.
45°
45°
7.08
3.50
3.44
LEAD HOLE
.75 N.P.T.
2.75
2.75
4.83
3.25
6.50
.0015 MAX
CLEARANCE
.38
.13 MIN.
.006
.004
1.00 MIN.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD TO SOLIDWORKS
REV: B
VERSION: 02
REVISED: 10:56:07 08/30/2019
TDR: 000001117187
MODEL NO. 35LYX732
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HOR 143-5TC XPFC M,CLI GP C&D,DRILL RIG,ALUM. SLINGER,DRAINS
35LYX732

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 |