ABB BALDOR RELIANCE

Customer information packet

CEM7034T-I

1.5//1HP, 1760//1460RPM, 3PH, 60//50HZ, 145T
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	145TC
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	1.500 HP @ 60 HZ
	1.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	190.0 V @ 50 HZ
	230.0 V @ 60 HZ
	380.0 V @ 50 HZ
	460.0 V @ 60 HZ
Agency Approvals	UL
	CSA
	CSA EEV
	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	1.900 A @ 380.0 V
	2.200 A @ 460.0 V
	3.800 A @ 190.0 V
	4.400 A @ 230.0 V
	4.500 A @ 208.0 V
Design Code	B

Part Detail

Revision	S
Type	AC
Mech. spec.	35X732
Base	
Status	NLA/A
Elec. spec.	35WGM493
Layout	35LYX732
Eff. date	01-19-2023
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	09-27-2010

Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
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	1.9 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	3526M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.23 IN
Power Factor	73
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	1460 rpm
	1760 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.	35X732M493G1										
CAT.NO.	CEM7034T-I										
HP	1.5//1										
VOLTS	230/460//190/380										
AMPS	4.4/2.2//3.8/1.9										
RPM	1760//1460 75CRISE						**MOTOR WEIGHT**		61		
HERTZ	60//50	**PH**	3	**CL**	F	**DE BRG**	6205				
SER.F.	1.15	**DES**	B	**CODE**	L	**ODE BRG**	6203				
FRAME	145TC			**GREASE**	POLYREX EM						
RATING	40C AMB-CONT 55C AMB AT 1.0 SF										
NEMA-NOM-EFF	86.5	**PF**	73								
	NEMA MG-1 PT 5,IP55										

AC Induction Motor Performance Data
Record # 34480
Typical performance - not guaranteed values

Winding: 35WGM493-R005	**Type:** 3526M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1.5//1	**Full Load Torque**	4.47 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			4.4/2.2//3.8/1.9	**Breakdown Torque**	19.2 LB-FT
R.P.M.			1760//1460	**Pull-up Torque**	9.4 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	13.4 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	18.3 A
Service Factor (S.F.)			1.15	**No-load Current**	1.37 A
NEMA Nom. Eff.	86.5	**Power Factor**	73	**Line-line Res. @ 25ºC**	10.7 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	44°C
S.F. Amps				**Temp. Rise @ S.F. Load**	52°C
				Locked-rotor Power Factor	52
				Rotor inertia	0.154 LB-FT2

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	31	51	65	73	79	83	77
Efficiency	76.2	84.5	86.9	87.2	86.5	85.3	86.8
Speed	1791	1781	1771	1760	1748	1735	1753
Line amperes	1.44	1.61	1.86	2.19	2.58	2.98	2.42

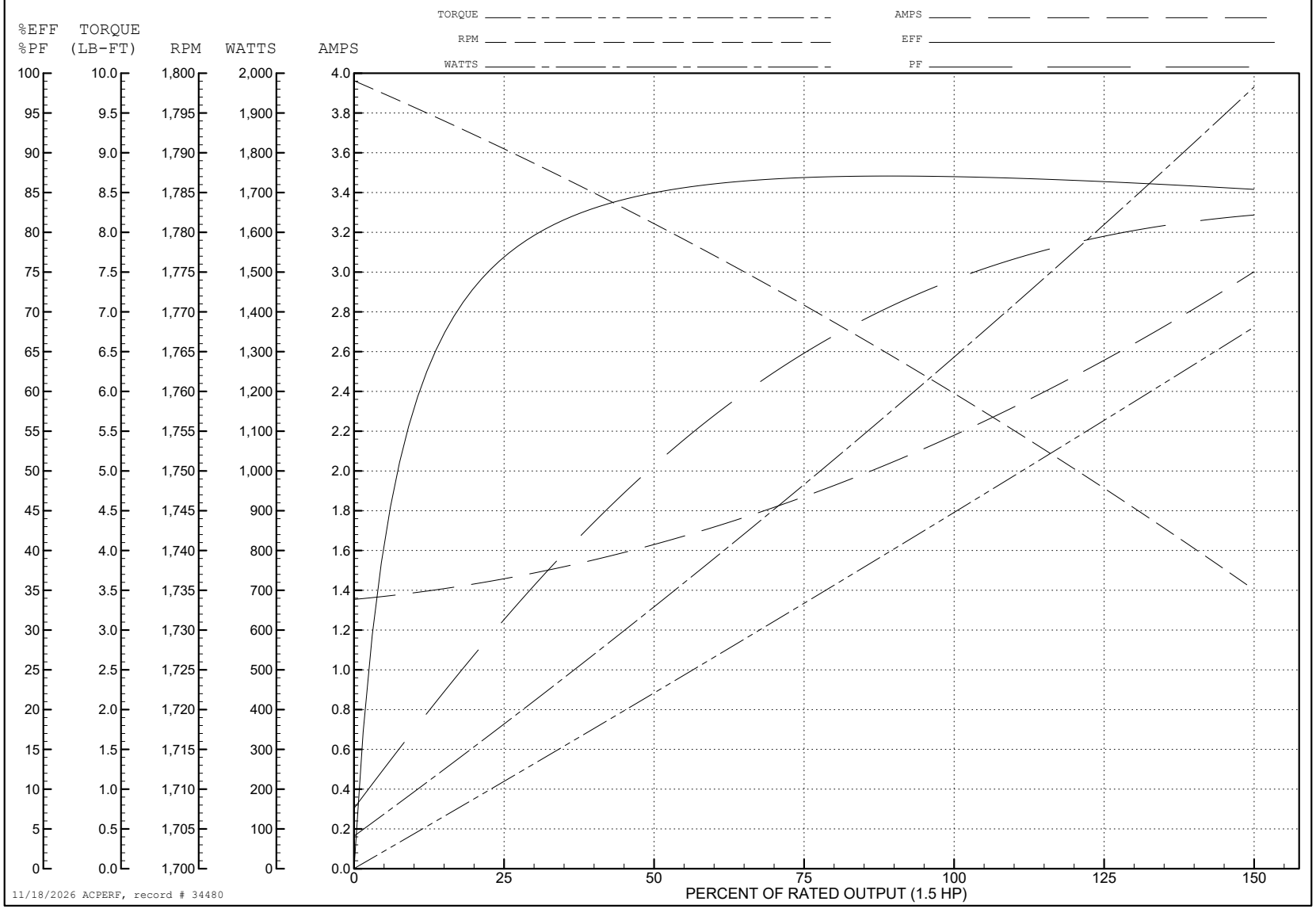
ABB Motors and Mechanical Inc.

WINDING # 35WGM493

1.5 HP 3 PH 60 HZ 1760 RPM 460 V 3526M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=19.2 PU=9.4 LR=13.4 LRA=18.3



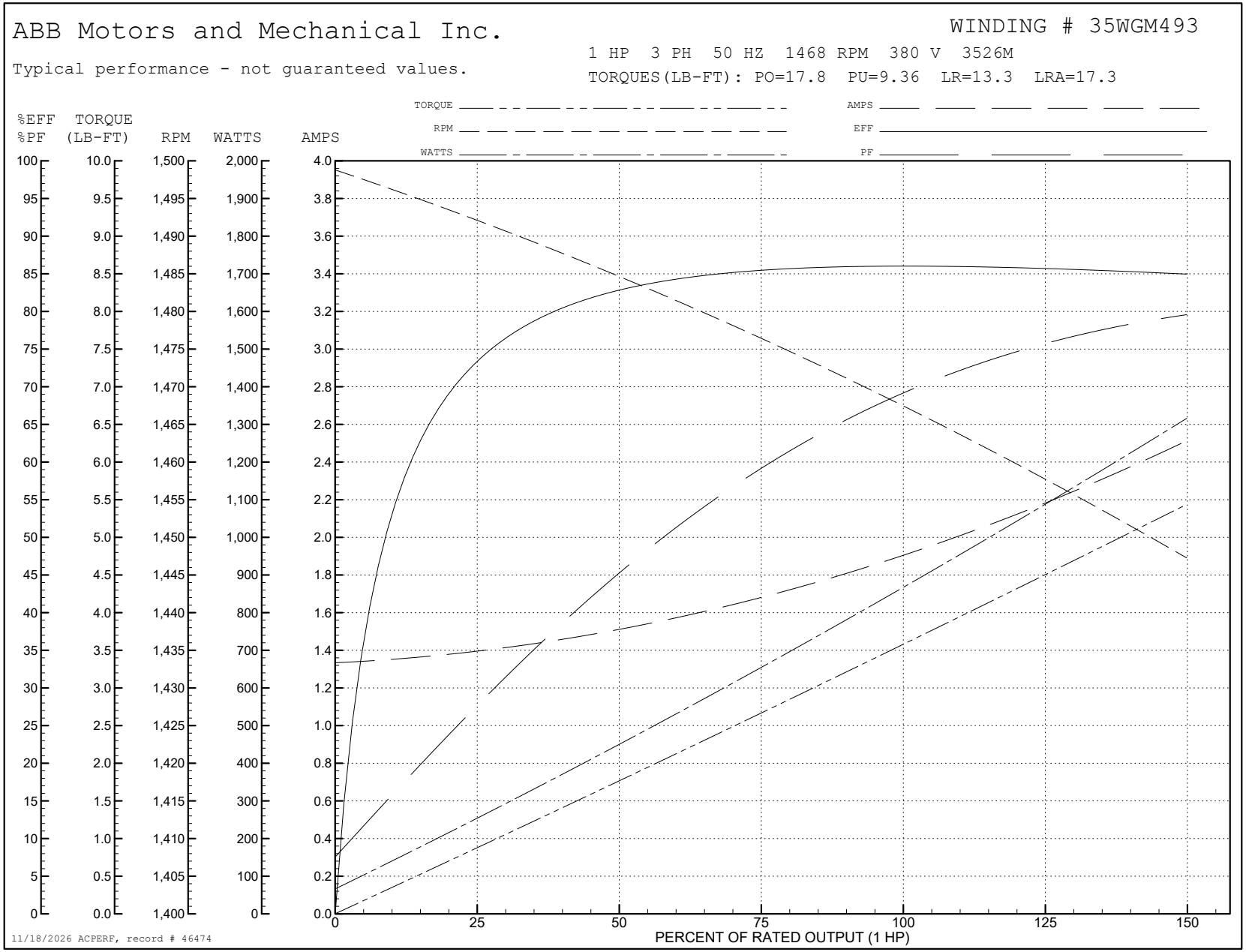
AC Induction Motor Performance Data
Record # 46474
Typical performance - not guaranteed values

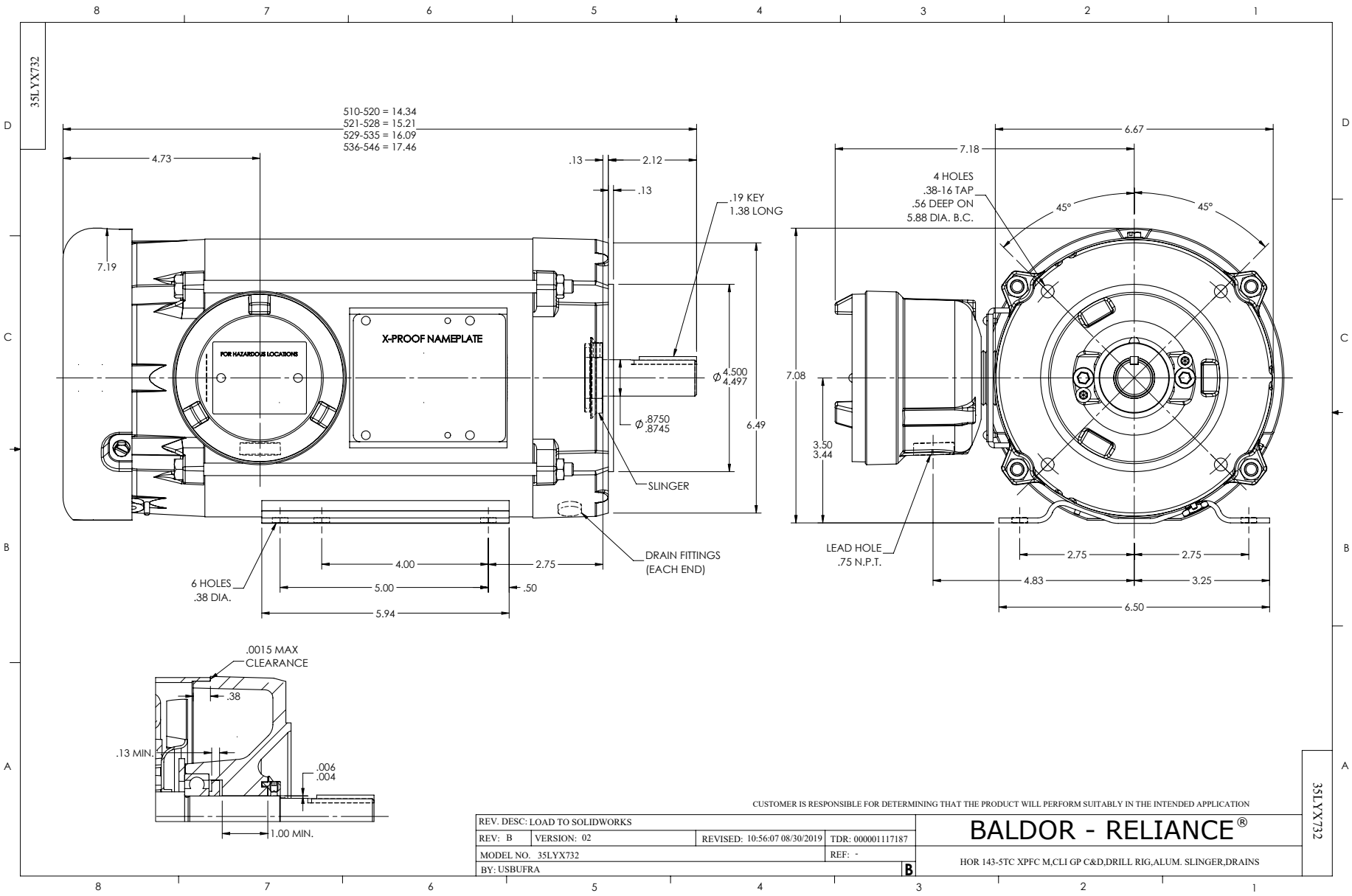
Winding: 35WGM493-R005	**Type:** 3526M	**Enclosure:** XPFC

Nameplate Data				**380 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			1.5//1	**Full Load Torque**	3.57 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			4.4/2.2//3.8/1.9	**Breakdown Torque**	17.8 LB-FT
R.P.M.			1760//1460	**Pull-up Torque**	9.36 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	13.3 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	17.3 A
Service Factor (S.F.)			1.15	**No-load Current**	1.34 A
NEMA Nom. Eff.	86.5	**Power Factor**	73	**Line-line Res. @ 25ºC**	10.1 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	35°C
S.F. Amps				**Temp. Rise @ S.F. Load**	41°C
				Locked-rotor Power Factor	57
				Rotor inertia	0.154 LB-FT2

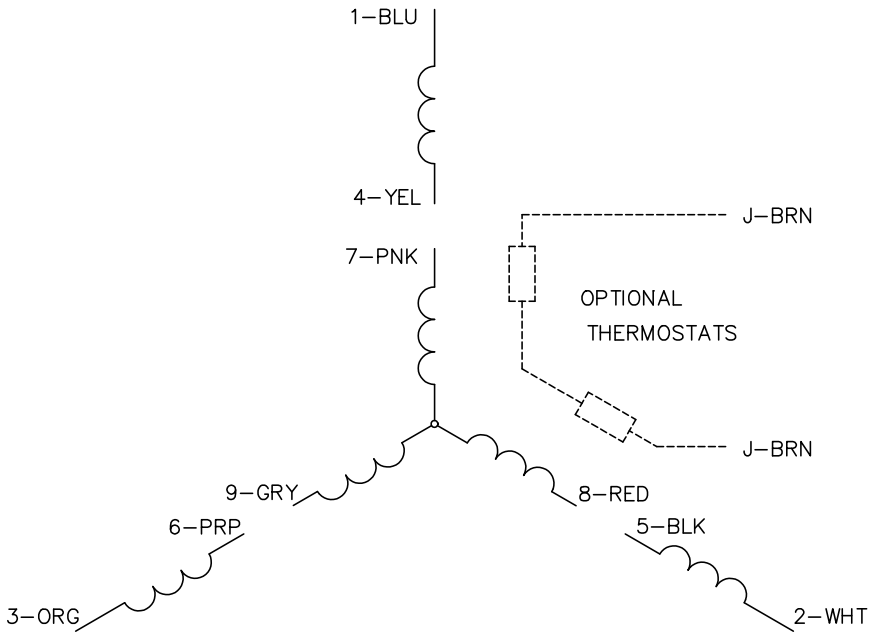
Load Characteristics 380 V, 50 Hz, 1 HP

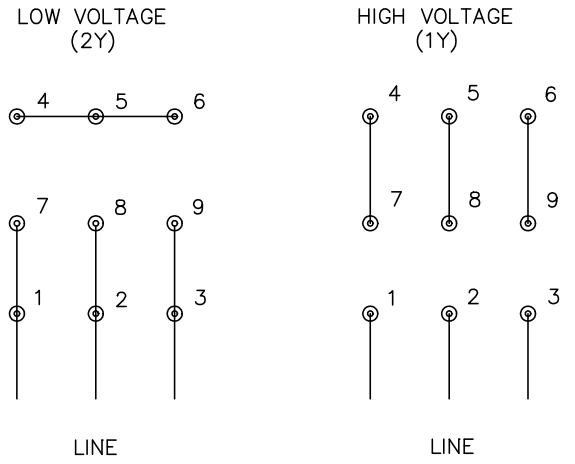
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	27	45	59	69	75	80	73
Efficiency	72.8	82.3	85.4	86.2	85.9	84.9	86
Speed	1492	1485	1476	1468	1458	1447	1462
Line amperes	1.39	1.5	1.67	1.91	2.2	2.5	2.08


ABB Motors and Mechanical Inc.
WINDING # 35WGM493
1 HP 3 PH 50 HZ 1468 RPM 380 V 3526M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=17.8 PU=9.36 LR=13.3 LRA=17.3
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1 HP)
11/18/2026 ACPERF, record # 46474


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