ABB BALDOR RELIANCE

Customer information packet

CM7014-I

1//.75HP, 1750//1450RPM, 3PH, 60//50HZ, 56C
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	56C
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 @ 60 HZ
	.750 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	190.0 V @ 50 HZ
	230.0 V @ 60 HZ
	380.0 V @ 50 HZ
Agency Approvals	UL
	CSA
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	1.500 A @ 380.0 V
	1.600 A @ 460.0 V
	3.000 A @ 190.0 V
	3.200 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %

Part Detail

Revision	R
Type	AC
Mech. spec.	35X738
Base	
Status	INA/A
Elec. spec.	35WGP674
Layout	35LYX738
Eff. date	06-09-2020
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	10-08-2008

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	1.5 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	M
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	3516M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.28 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
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1450 rpm
	1750 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

NP0977XPSL									
NO.							**CC**		
SER.							**TEMP CODE**	T3C	
SPEC.	35X738P674H1								
CAT.NO.	CM7014-I								
HP	1//.75								
VOLTS	230/460//190/380								
AMPS	3.2/1.6//3/1.5								
RPM	1750//1450					**MOTOR WEIGHT**	52		
HERTZ	60//50	**PH**	3	**CL**	F	**DE BRG**	6205		
SER.F.	1.15	**DES**	B	**CODE**	M	**ODE BRG**	6203		
FRAME	56C	**GREASE**	POLYREX EM						
RATING	40C AMB-CONT								
NEMA-NOM-EFF	82.5	**PF**	73						
	NEMA MG-1 PT 5,IP55								

AC Induction Motor Performance Data
Record # 26753
Typical performance - not guaranteed values

Winding: 35WGP674-R007	**Type:** 3516M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1//.75	**Full Load Torque**	2.99 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			3.2/1.6//3/1.5	**Breakdown Torque**	17.8 LB-FT
R.P.M.			1750//1450	**Pull-up Torque**	8.32 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	10.4 LB-FT
NEMA Design Code	B	**KVA Code**	M	**Starting Current**	13.2 A
Service Factor (S.F.)			1.15	**No-load Current**	1.04 A
NEMA Nom. Eff.	82.5	**Power Factor**	73	**Line-line Res. @ 25ºC**	16.3 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	41°C
S.F. Amps				**Temp. Rise @ S.F. Load**	47°C
				Locked-rotor Power Factor	63
				Rotor inertia	0.0946 LB-FT2

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	32	50	63	72	79	83	76
Efficiency	66.6	78	81.4	82.6	82.5	81.6	82.5
Speed	1788	1776	1764	1750	1735	1719	1741
Line amperes	1.11	1.2	1.36	1.56	1.77	2.06	1.69

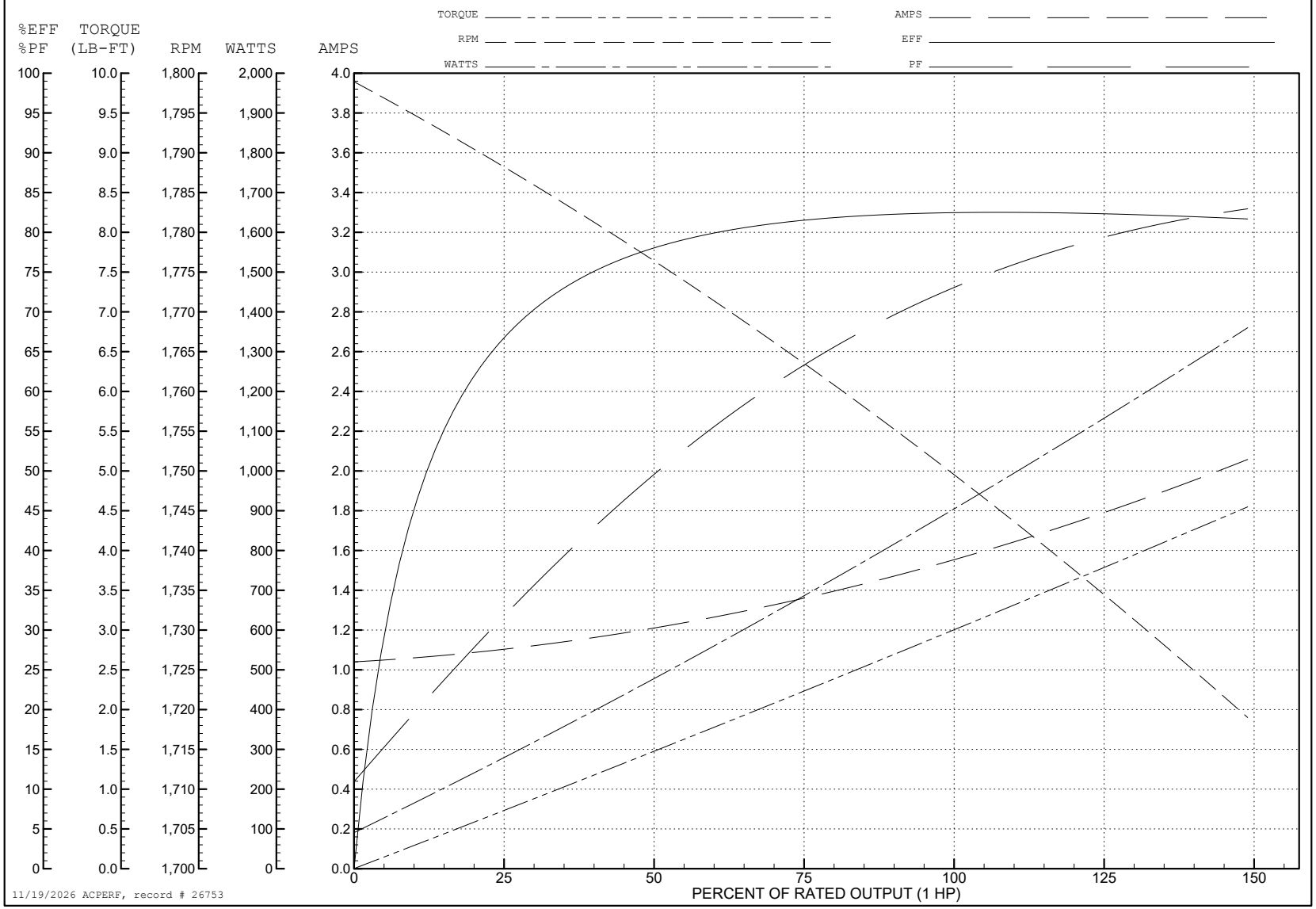
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WINDING # 35WGP674

1 HP 3 PH 60 HZ 1750 RPM 460 V 3516M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=17.8 PU=8.32 LR=10.4 LRA=13.2



AC Induction Motor Performance Data
Record # 26754
Typical performance - not guaranteed values

Winding: 35WGP674-R007	**Type:** 3516M	**Enclosure:** XPFC

Nameplate Data				**380 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			1//.75	**Full Load Torque**	2.7 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			3.2/1.6//3/1.5	**Breakdown Torque**	16 LB-FT
R.P.M.			1750//1450	**Pull-up Torque**	8.1 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	10.1 LB-FT
NEMA Design Code	B	**KVA Code**	M	**Starting Current**	12.1 A
Service Factor (S.F.)			1.15	**No-load Current**	1.02 A
NEMA Nom. Eff.	82.5	**Power Factor**	73	**Line-line Res. @ 25ºC**	16.3 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	37°C
S.F. Amps				**Temp. Rise @ S.F. Load**	42°C
				Locked-rotor Power Factor	69
				Rotor inertia	0.0946 LB-FT2

Load Characteristics 380 V, 50 Hz, 0.75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	31	48	61	71	78	82	75
Efficiency	64.3	76.4	80.2	81.5	81.4	80.3	81.4
Speed	1489	1478	1467	1454	1440	1426	1446
Line amperes	1.08	1.16	1.29	1.47	1.66	1.92	1.58

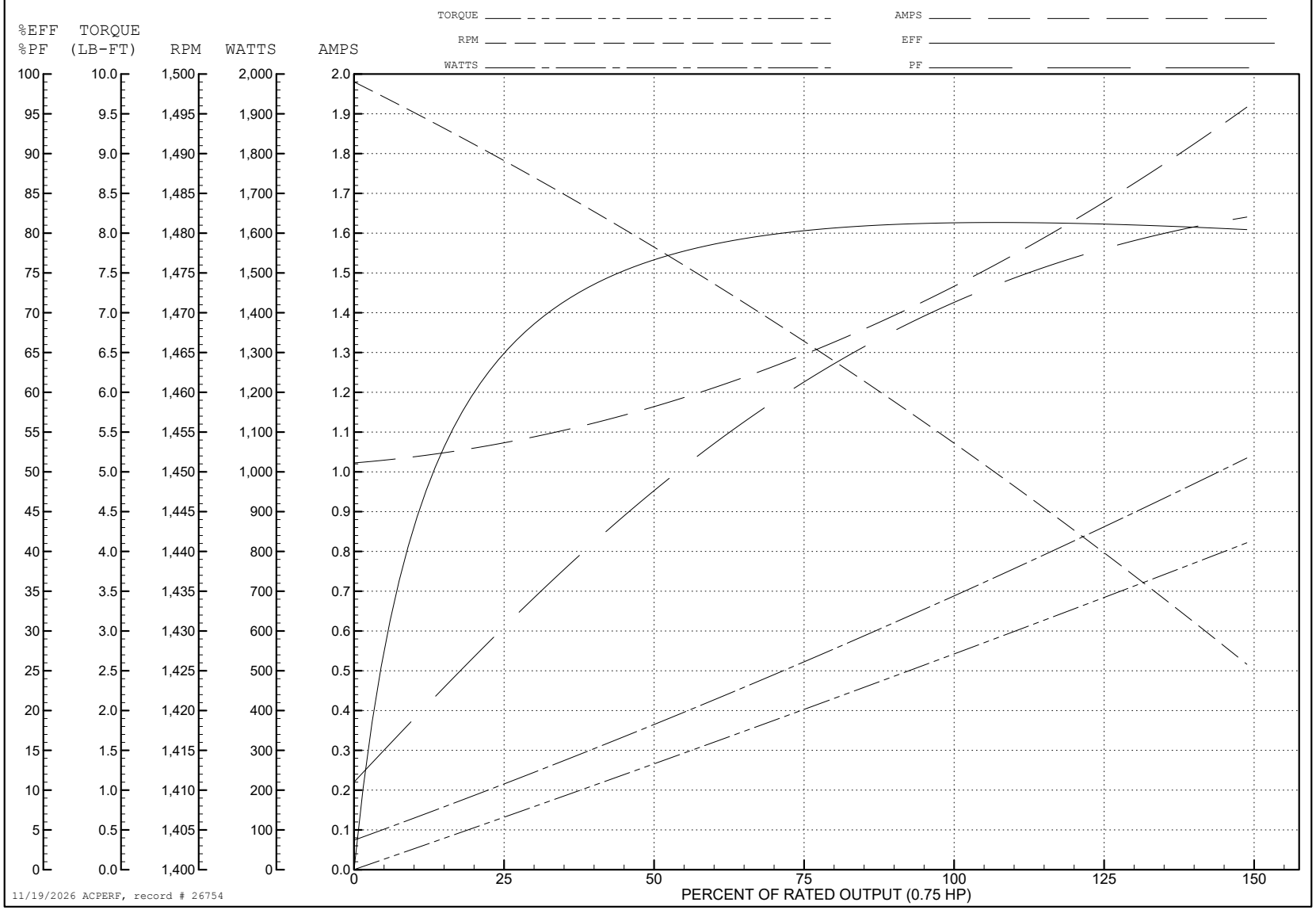
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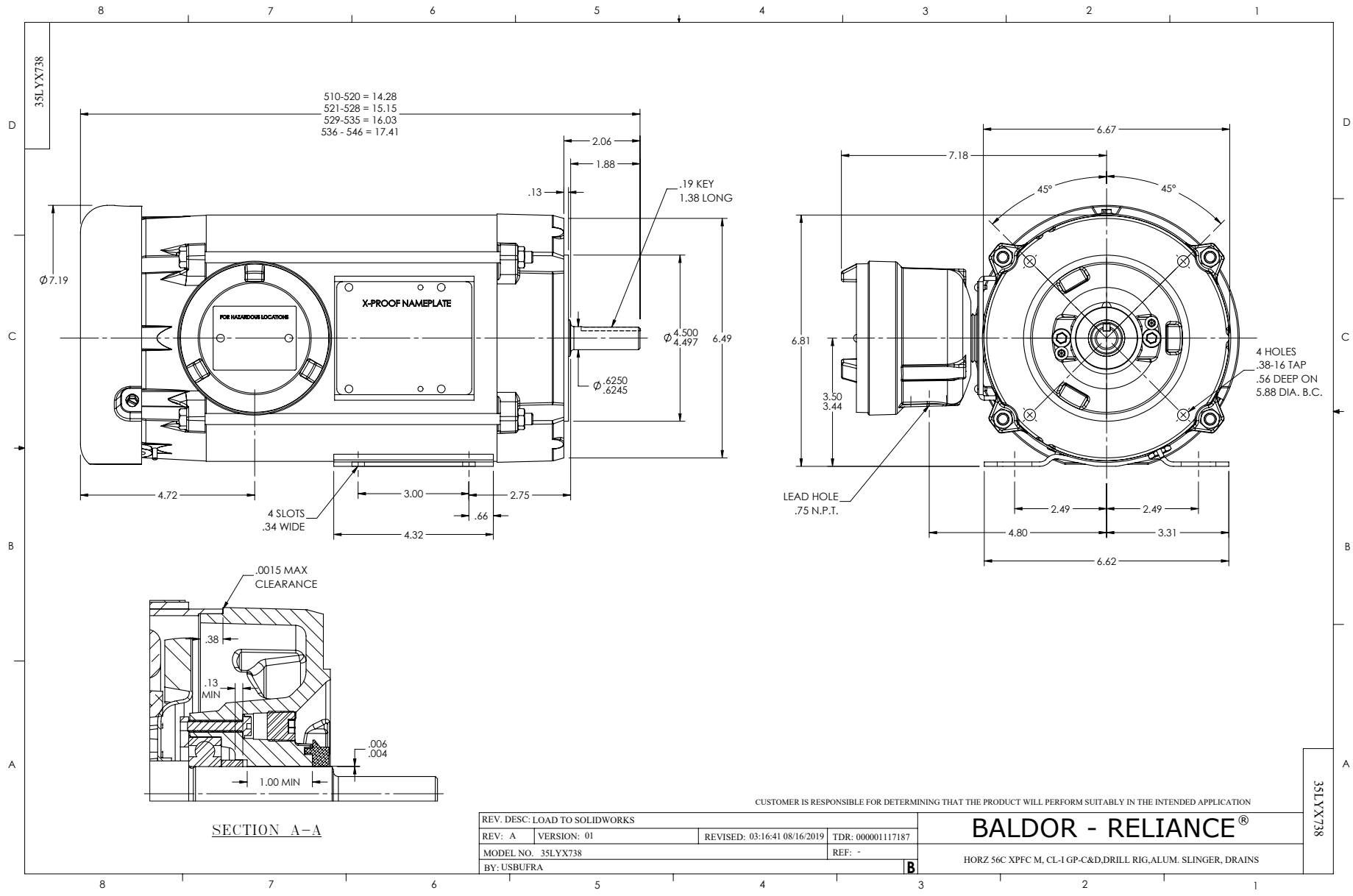
WINDING # 35WGP674

0.75 HP 3 PH 50 HZ 1454 RPM 380 V 3516M

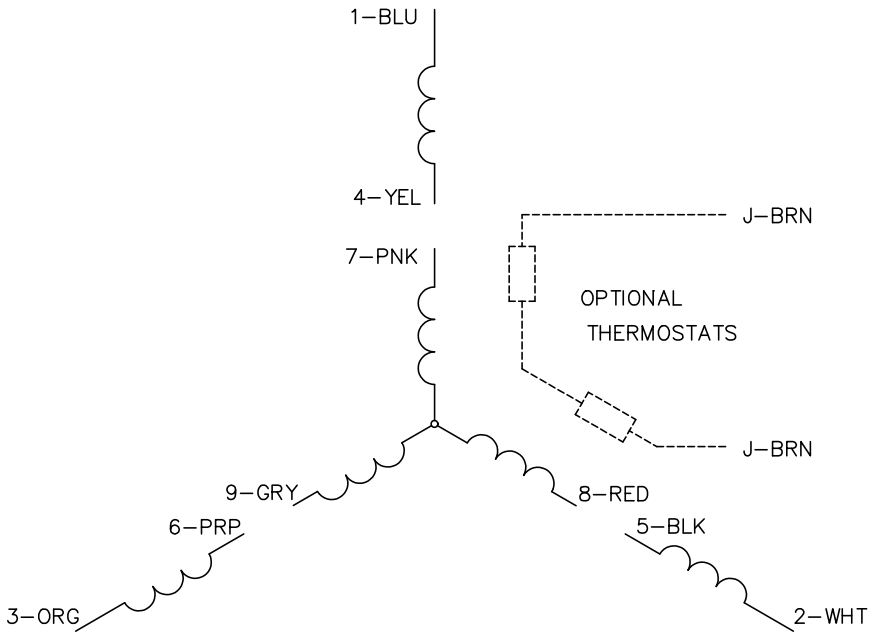
Typical performance - not guaranteed values.

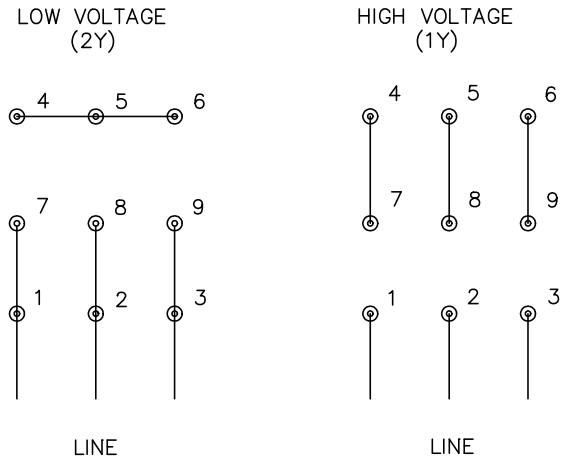
TORQUES(LB-FT): PO=16 PU=8.1 LR=10.1 LRA=12.1




35LYX738
510-520 = 14.28
521-528 = 15.15
529-535 = 16.03
536 - 546 = 17.41
2.06
1.88
.13
.19 KEY
1.38 LONG
Ø7.19
FOR HAZARDOUS LOCATIONS
X-PROOF NAMEPLATE
Ø 4.500
4.497
6.49
Ø .6250
.6245
4.72
3.00
2.75
.66
4.32
4 SLOTS
.34 WIDE
6.67
7.18
45°
45°
6.81
3.50
3.44
4 HOLES
.38-16 TAP
.56 DEEP ON
5.88 DIA. B.C.
LEAD HOLE
.75 N.P.T.
2.49
2.49
4.80
3.31
6.62
.0015 MAX
CLEARANCE
.38
.13
MIN
.006
.004
1.00 MIN
SECTION A–A
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD TO SOLIDWORKS
REV: A
VERSION: 01
REVISED: 03:16:41 08/16/2019
TDR: 000001117187
MODEL NO. 35LYX738
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HORZ 56C XPFC M, CL-I GP-C&D,DRILL RIG,ALUM. SLINGER, DRAINS
35LYX738

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