ABB BALDOR RELIANCE

Customer information packet

M7014

1//.75HP, 1740//1440RPM, 3PH, 60//50HZ, 56, 3
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	56
Frame Material	Steel
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	.750 HP @ 50 HZ
	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	380.0 V @ 50 HZ
	230.0 V @ 60 HZ
	190.0 V @ 50 HZ
Agency Approvals	CSA
	UL
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	3.900 A @ 208.0 V
	3.600 A @ 230.0 V
	3.400 A @ 190.0 V
	1.800 A @ 460.0 V
	1.700 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	M
Type	AC
Mech. spec.	35E356
Base	
Status	NLA/A
Elec. spec.	35WGP676
Layout	35LYE356
Eff. date	03-08-2016
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	02-18-2008

Efficiency @ 100% Load	75.5 %
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	1.7 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No 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	3514M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.30 IN
Power Factor	67
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
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	1440 rpm
	1740 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

NP1426XPSL							
NO.		**CC**					
SER.							
SPEC.	35E356P676G1						
CAT.NO.	M7014						
HP	1//.75	**T. CODE**	T3C				
VOLTS	230/460//190/380						
AMPS	3.6/1.8//3.4/1.7						
RPM	1740//1440						
HZ	60//50	**PH**	3	**CL**	B		
SER.F.	1.00	**DES**	B	**CODE**	L		
RATING	40C AMB-CONT						
FRAME	56	**NEMA-NOM-EFF**	75.5				
PF	67						
BLANK							

AC Induction Motor Performance Data
Record # 30719
Typical performance - not guaranteed values

Winding: 35WGP676-R005	**Type:** 3514M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1//.75	**Full Load Torque**	2.99 LB-FT
Volts			208-230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			3.9-3.6/1.8//3.4/1.7	**Breakdown Torque**	12.8 LB-FT
R.P.M.			1740//1440	**Pull-up Torque**	8.7 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	9.9 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	12.4 A
Service Factor (S.F.)			1	**No-load Current**	1.48 A
NEMA Nom. Eff.	75.5	**Power Factor**	67	**Line-line Res. @ 25ºC**	20 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	61°C

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	30	45	57	67	75	80
Efficiency	53.3	68	73.6	76	76.6	76
Speed	1785	1771	1756	1740	1722	1702
Line amperes	1.48	1.56	1.67	1.82	2.04	2.29

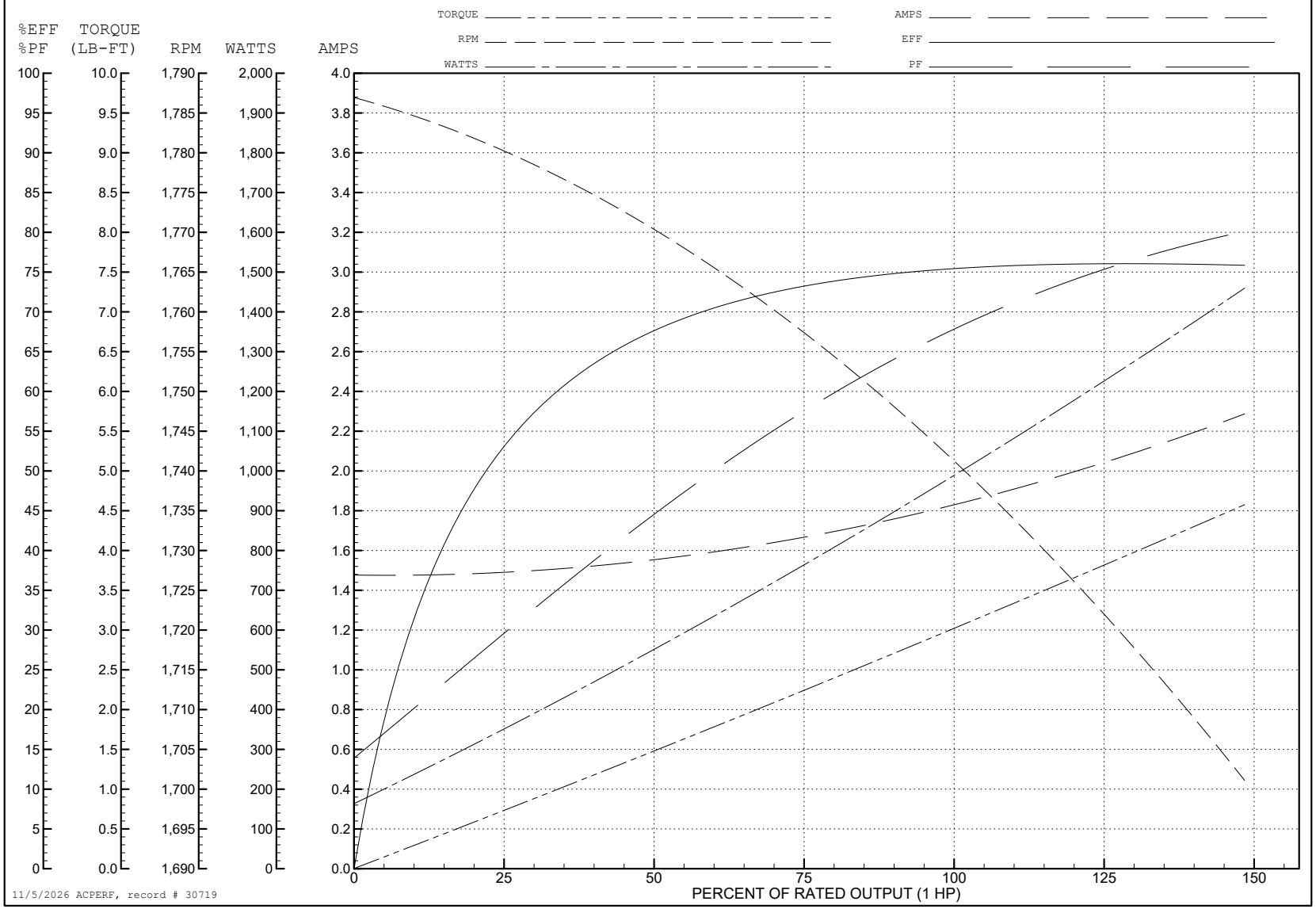
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WINDING # 35WGP676

1 HP 3 PH 60 HZ 1740 RPM 460 V 3514M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=12.8 PU=8.7 LR=9.9 LRA=12.4



11/5/2026 ACPERF, record # 30719

AC Induction Motor Performance Data
Record # 30720
Typical performance - not guaranteed values

Winding: 35WGP676-R005	**Type:** 3514M	**Enclosure:** XPFC

Nameplate Data				**380 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			1//.75	**Full Load Torque**	2.7 LB-FT
Volts			208-230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			3.9-3.6/1.8//3.4/1.7	**Breakdown Torque**	11.3 LB-FT
R.P.M.			1740//1440	**Pull-up Torque**	8.1 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	9.22 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	11 A
Service Factor (S.F.)			1	**No-load Current**	1.44 A
NEMA Nom. Eff.	75.5	**Power Factor**	67	**Line-line Res. @ 25ºC**	20 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	56°C

Load Characteristics 380 V, 50 Hz, 0.75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	29	44	56	66	74	80
Efficiency	49.8	65.2	71	73.9	74.5	73.9
Speed	1486	1474	1460	1445	1428	1410
Line amperes	1.44	1.5	1.59	1.72	1.92	2.14

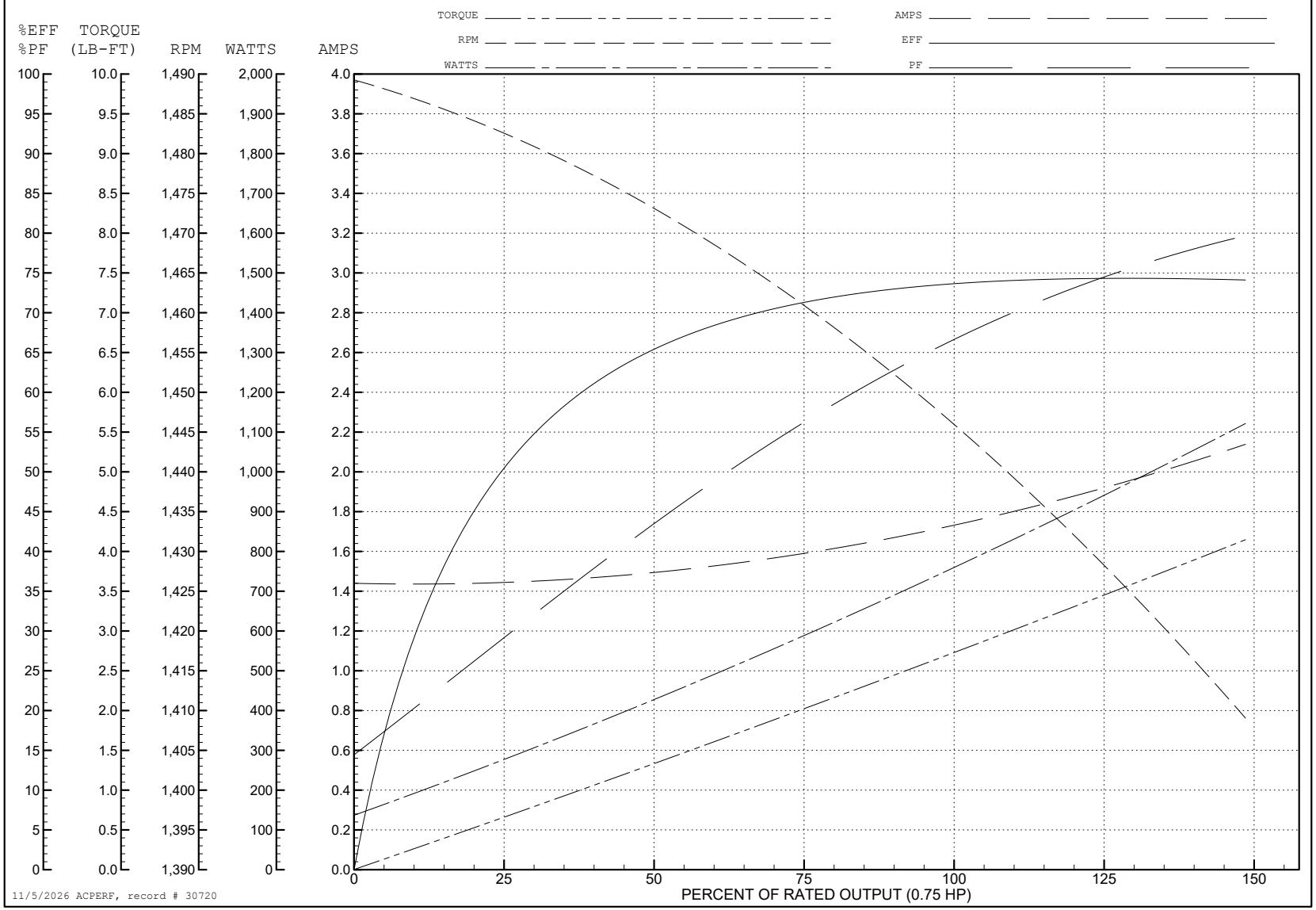
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WINDING # 35WGP676

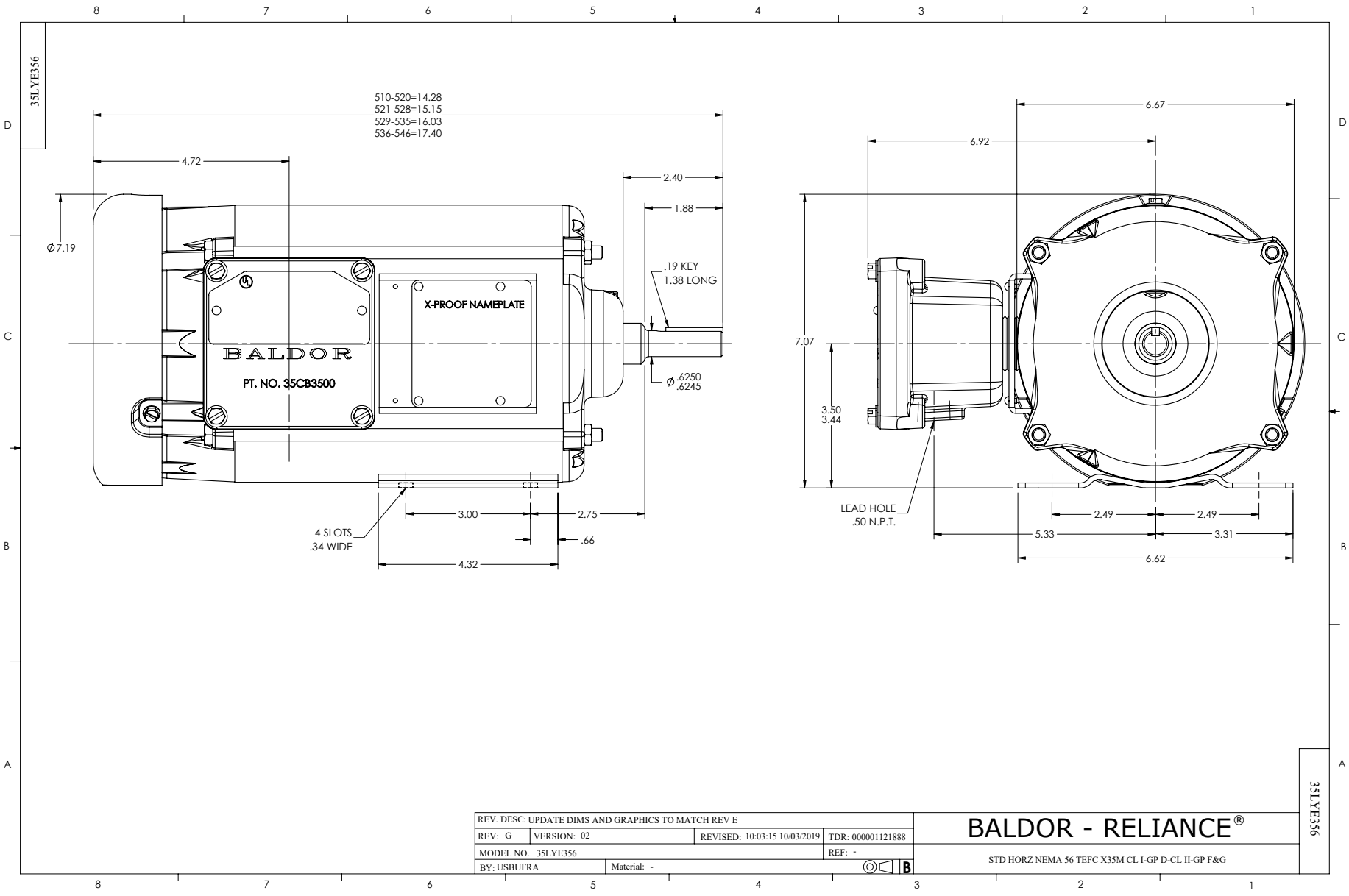
0.75 HP 3 PH 50 HZ 1445 RPM 380 V 3514M

Typical performance - not guaranteed values.

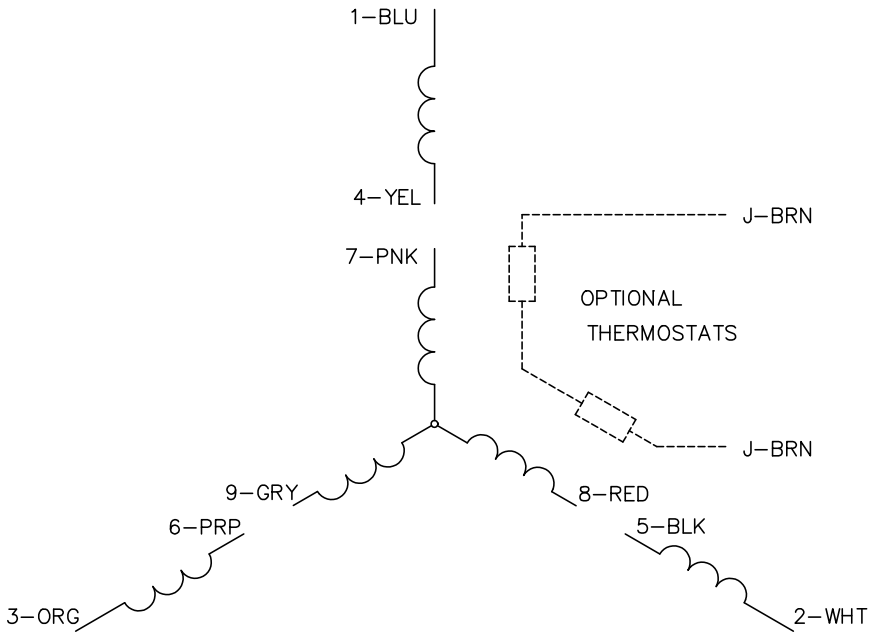
TORQUES(LB-FT): PO=11.3 PU=8.1 LR=9.22 LRA=11

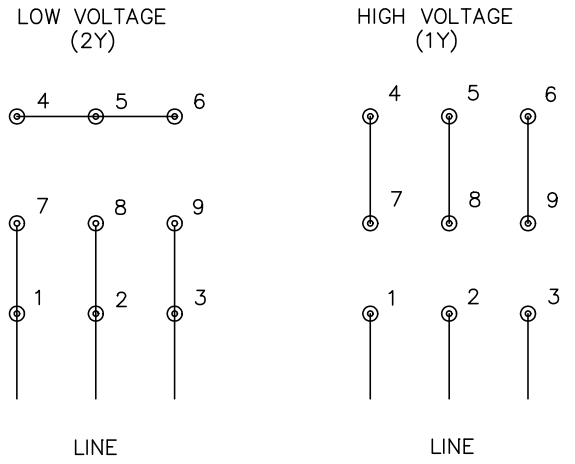


11/5/2026 ACPERF, record # 30720


35LYE356
510-520=14.28
521-528=15.15
529-535=16.03
536-546=17.40
4.72
2.40
1.88
Ø7.19
.19 KEY
1.38 LONG
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø.6250
.6245
4 SLOTS
.34 WIDE
3.00
2.75
.66
4.32
6.67
6.92
7.07
3.50
3.44
LEAD HOLE
.50 N.P.T.
2.49
2.49
5.33
3.31
6.62
REV. DESC: UPDATE DIMS AND GRAPHICS TO MATCH REV E
REV: G
VERSION: 02
REVISED: 10:03:15 10/03/2019
TDR: 000001121888
MODEL NO. 35LYE356
REF: -
BY: USBUFRA
Material: -
B
BALDOR - RELIANCE®
STD HORZ NEMA 56 TEFC X35M CL I-GP D-CL II-GP F&G
35LYE356

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