Customer information packet

CEM7071T

1.5//2HP, 2890//3490RPM, 3PH, 50//60HZ, 145T
Class - CLI GP D; CLII GP F,G
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 D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	1.500 HP @ 50 HZ
	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	5.300 A @ 208.0 V
	5.000 A @ 230.0 V
	4.800 A @ 190.0 V
	2.500 A @ 460.0 V
	2.400 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	R
Type	AC
Mech. spec.	35E377
Base	
Status	PRD/A
Elec. spec.	35WGM774
Layout	35LYE377
Eff. date	02-15-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	07-26-2010

Efficiency @ 100% Load	85.5 %
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	2.4 a
Insulation Class	B
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	3526M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.23 IN
Power Factor	88
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Speed	2890 rpm
	3490 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

NP1426XPSLEV							
NO.		**CC**	010A				
SER.							
SPEC.	35E377M774G2						
CAT.NO.	CEM7071T						
HP	1.5//2	**T. CODE**	T3C				
VOLTS	190/380//230/460						
AMPS	4.8/2.4//5/2.5						
RPM	2890//3490						
HZ	50//60	**PH**	3	**CL**	B		
SER.F.	1.00	**DES**	B	**CODE**	M		
RATING	40C AMB-CONT						
FRAME	143TC	**NEMA-NOM-EFF**	85.5				
		PF	88				
BLANK							

AC Induction Motor Performance Data
Record # 31998
Typical performance - not guaranteed values

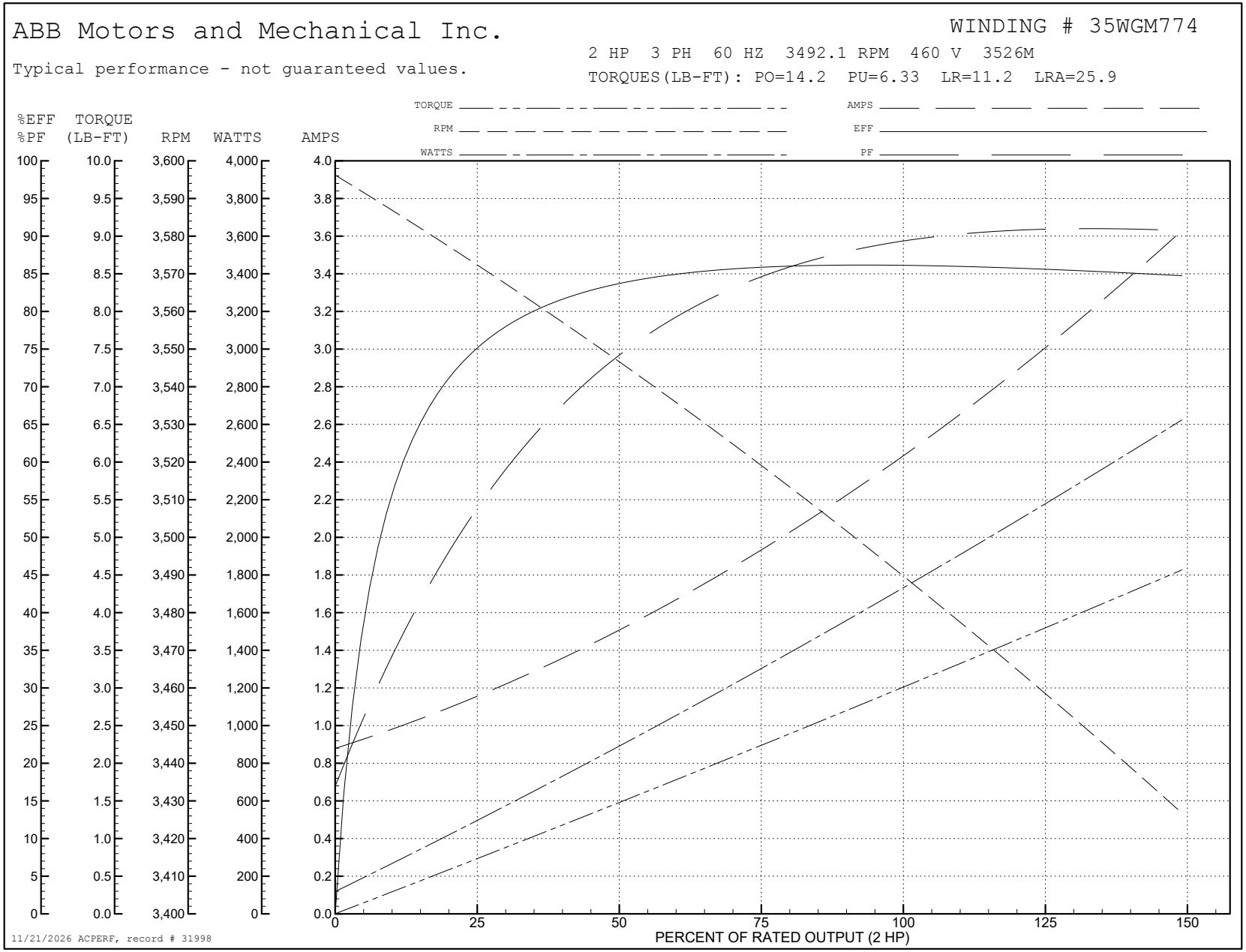
Winding: 35WGM774-R003	**Type:** 3526M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			1.5//2
Volts			190/380//230/460
Full Load Amps			4.8/2.4//5/2.5
R.P.M.			2890//3490
Hz	50//60	**Phase**	3
NEMA Design Code	B	**KVA Code**	M
Service Factor (S.F.)			1
NEMA Nom. Eff.	85.5	**Power Factor**	88
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	2.98 LB-FT
Start Configuration	direct on line
Breakdown Torque	14.2 LB-FT
Pull-up Torque	6.33 LB-FT
Locked-rotor Torque	11.2 LB-FT
Starting Current	25.9 A
No-load Current	0.912 A
Line-line Res. @ 25ºC	6.9119 Ω
Temp. Rise @ Rated Load	44°C
Locked-rotor Power Factor	50
Rotor inertia	0.0719 LB-FT2

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	55	75	84	88	90	91
Efficiency	74.3	83.5	85.9	86.4	85.9	84.8
Speed	3571.7	3546.5	3520.2	3492.1	3460.7	3425.5
Line amperes	1.1	1.47	1.93	2.44	3	3.61


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WINDING # 35WGM774
Typical performance - not guaranteed values.
2 HP 3 PH 60 HZ 3492.1 RPM 460 V 3526M
TORQUES(LB-FT): PO=14.2 PU=6.33 LR=11.2 LRA=25.9
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0
10.0 9.5 9.0 8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0
3,600 3,590 3,580 3,570 3,560 3,550 3,540 3,530 3,520 3,510 3,500 3,490 3,480 3,470 3,460 3,450 3,440 3,430 3,420 3,410 3,400
4,000 3,800 3,600 3,400 3,200 3,000 2,800 2,600 2,400 2,200 2,000 1,800 1,600 1,400 1,200 1,000 800 600 400 200 0
4.0 3.8 3.6 3.4 3.2 3.0 2.8 2.6 2.4 2.2 2.0 1.8 1.6 1.4 1.2 1.0 0.8 0.6 0.4 0.2 0.0
0 25 50 75 100 125 150
PERCENT OF RATED OUTPUT (2 HP)
11/21/2026 ACPERF, record # 31998

AC Induction Motor Performance Data
Record # 31999
Typical performance - not guaranteed values

Winding: 35WGM774-R003	**Type:** 3526M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			1.5//2
Volts			190/380//230/460
Full Load Amps			4.8/2.4//5/2.5
R.P.M.			2890//3490
Hz	50//60	**Phase**	3
NEMA Design Code	B	**KVA Code**	M
Service Factor (S.F.)			1
NEMA Nom. Eff.	85.5	**Power Factor**	88
Rating - Duty			40C AMB-CONT

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	2.69 LB-FT
Start Configuration	direct on line
Breakdown Torque	13.2 LB-FT
Pull-up Torque	6.62 LB-FT
Locked-rotor Torque	11.7 LB-FT
Starting Current	24.4 A
No-load Current	0.893 A
Line-line Res. @ 25ºC	6.86 Ω
Temp. Rise @ Rated Load	38°C
Locked-rotor Power Factor	56
Rotor inertia	0.0719 LB-FT2

Load Characteristics 380 V, 50 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	52	73	82	87	90	91
Efficiency	73.5	83.3	85.3	85.9	85.3	83.7
Speed	2974	2951	2927	2901	2872	2840
Line amperes	1.05	1.38	1.79	2.25	2.75	3.31

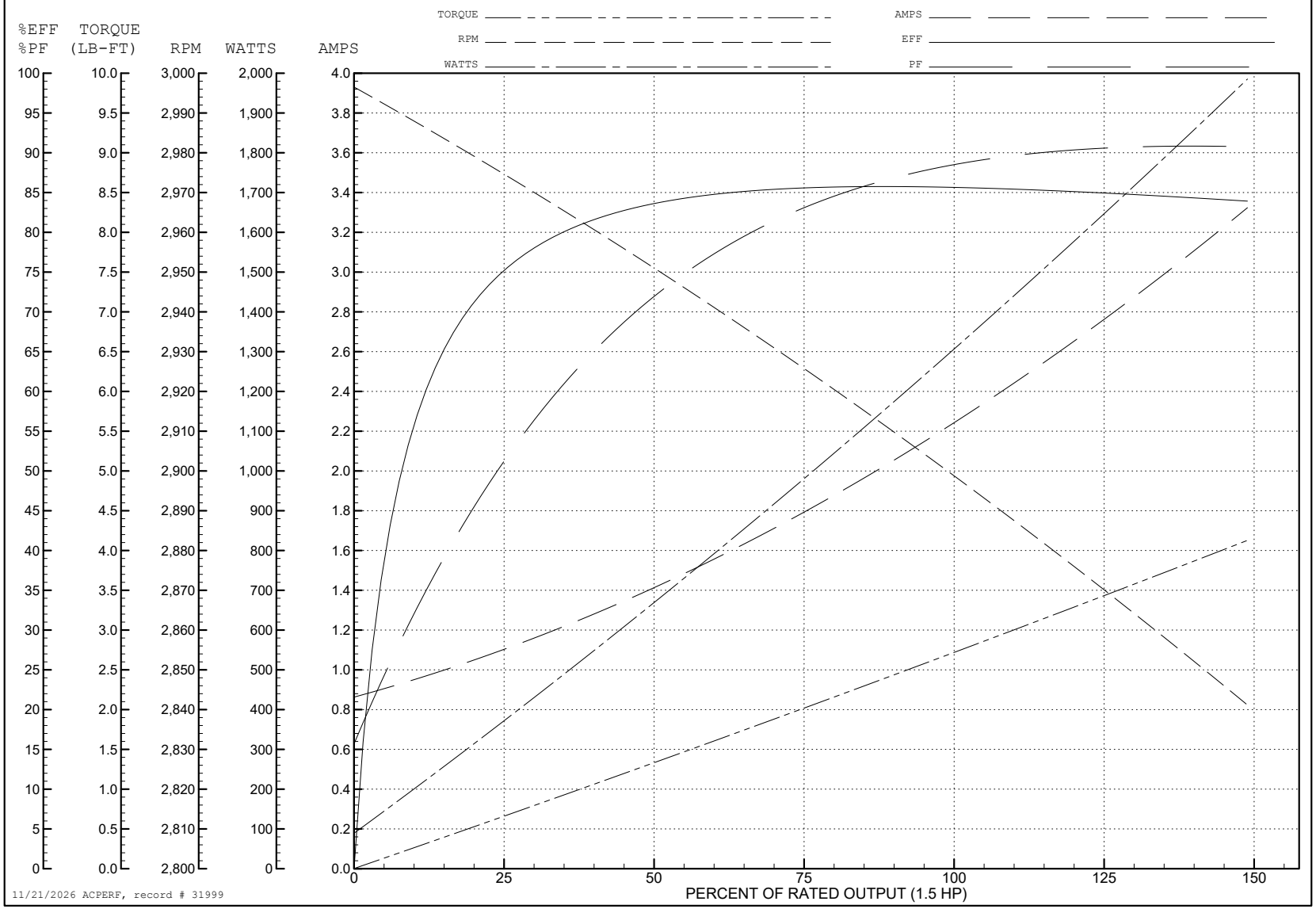
ABB Motors and Mechanical Inc.

WINDING # 35WGM774

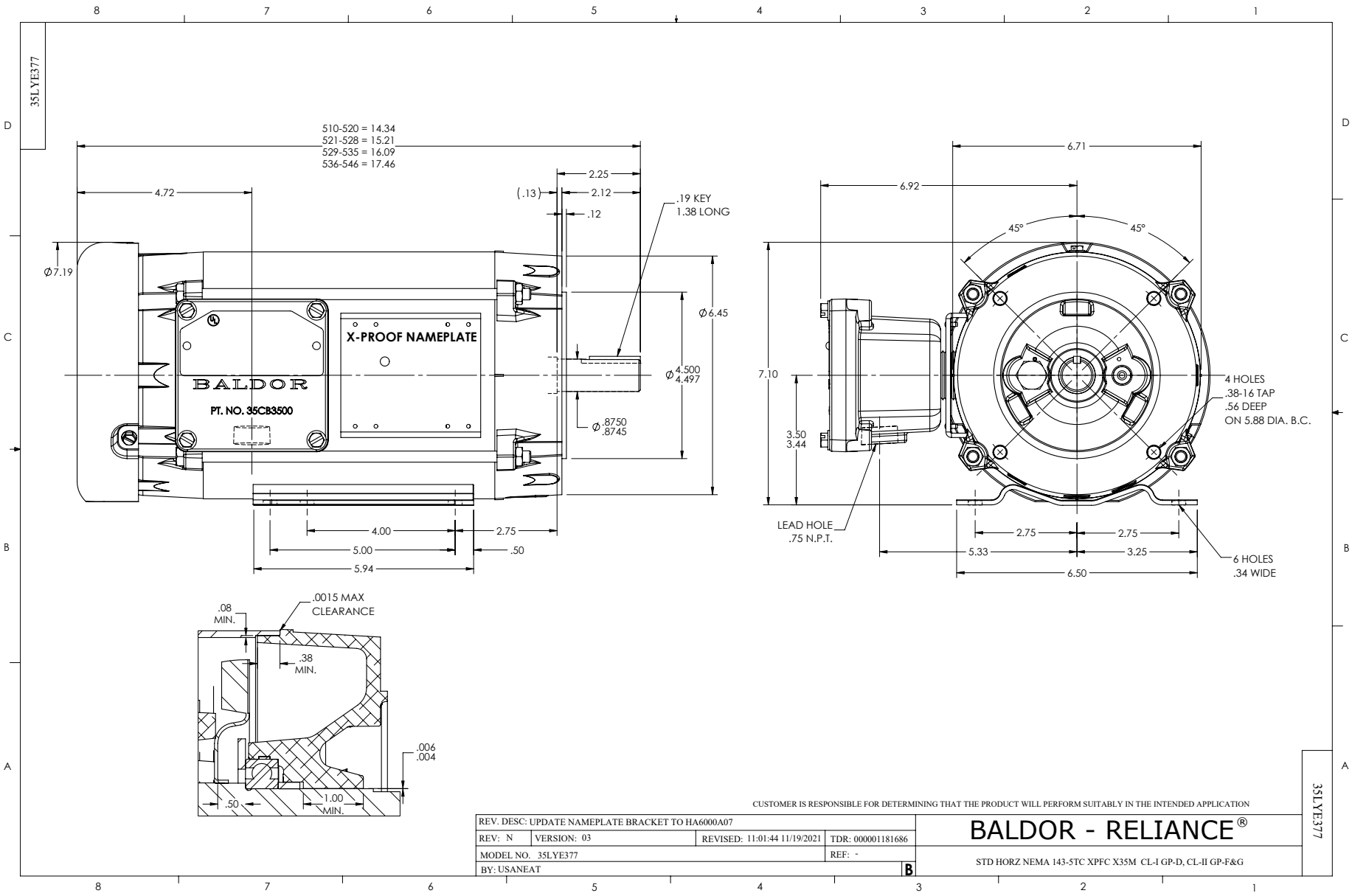
1.5 HP 3 PH 50 HZ 2901 RPM 380 V 3526M

Typical performance - not guaranteed values.

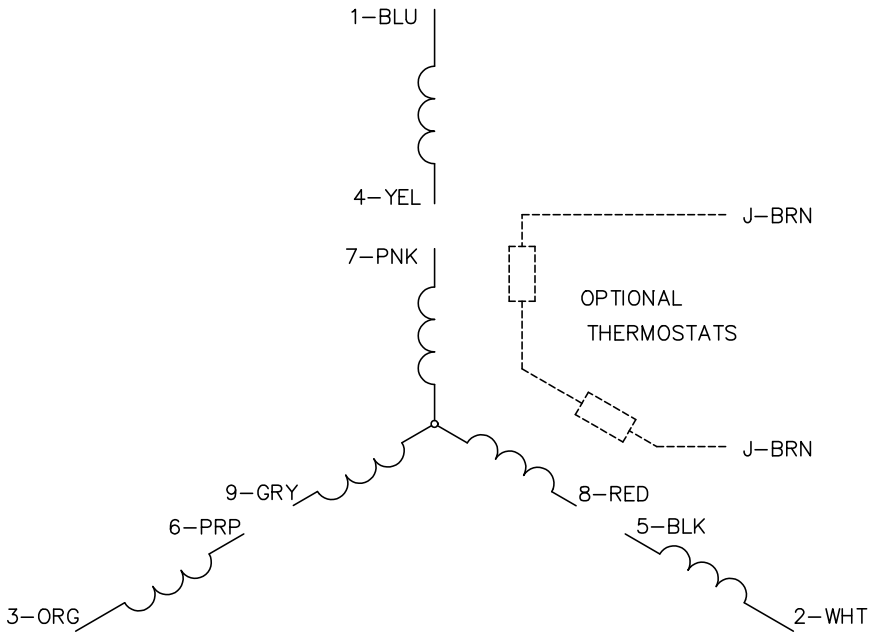
TORQUES(LB-FT): PO=13.2 PU=6.62 LR=11.7 LRA=24.4

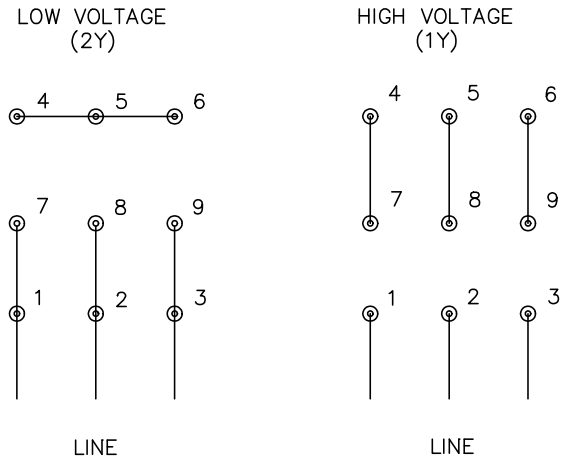


11/21/2026 ACPERF, record # 31999


35LYE377
510-520 = 14.34
521-528 = 15.21
529-535 = 16.09
536-546 = 17.46
4.72
2.25
(.13)
2.12
.12
.19 KEY
1.38 LONG
Ø7.19
Ø6.45
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø4.500
4.497
Ø.8750
.8745
4.00
2.75
5.00
.50
5.94
6.71
6.92
45°
45°
7.10
3.50
3.44
4 HOLES
.38-16 TAP
.56 DEEP
ON 5.88 DIA. B.C.
LEAD HOLE
.75 N.P.T.
2.75
2.75
5.33
3.25
6.50
6 HOLES
.34 WIDE
.08
MIN.
.0015 MAX
CLEARANCE
.38
MIN.
.006
.004
.50
1.00
MIN.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE NAMEPLATE BRACKET TO HA6000A07
REV: N
VERSION: 03
REVISED: 11:01:44 11/19/2021
TDR: 000001181686
MODEL NO. 35LYE377
REF: -
BY: USANEAT
B
BALDOR - RELIANCE®
STD HORZ NEMA 143-5TC XPFC X35M CL-I GP-D, CL-II GP-F&G
35LYE377

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