

**BALDOR<sup>®</sup> • RELIANCE** 

**Product Information Packet**

**EM7071T**

**1.5//2HP,2890//3490RPM,3PH,50//60HZ,143T**

Part Detail							
Revision:	P	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGM774	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	35E362	Layout:	35LYE362	Poles:	02	Created Date:	07-19-2010
Base:	RG	Eff. Date:	06-11-2018	Leads:	9#18		

Specs			
Catalog Number:	EM7071T	Front Face Code:	Standard
Enclosure:	XPFC	Front Shaft Indicator:	None
Frame:	143T	Heater Indicator:	No Heater
Frame Material:	Steel	Insulation Class:	B
Output @ Frequency:	1.500 HP @ 50 HZ	Inverter Code:	Not Inverter
	2.000 HP @ 60 HZ	KVA Code:	M
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Lifting Lugs:	No Lifting Lugs
Voltage @ Frequency:	230.0 V @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
	190.0 V @ 50 HZ	Motor Lead Quantity/Wire Size:	9 @ 18 AWG
	460.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	380.0 V @ 50 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	CLI GP D; CLII GP F,G	Motor Type:	3526M
XP Division:	Division I	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	88
	CSA EEV	Product Family:	General Purpose
	UR	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Standard
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard

<b>Base Indicator:</b>	Rigid	<b>Rodent Screen:</b>	None
<b>Bearing Grease Type:</b>	Polyrex EM (-20F +300F)	<b>Shaft Extension Location:</b>	Pulley End
<b>Blower:</b>	None	<b>Shaft Ground Indicator:</b>	No Shaft Grounding
<b>Current @ Voltage:</b>	5.300 A @ 208.0 V	<b>Shaft Rotation:</b>	Reversible
	5.000 A @ 230.0 V	<b>Shaft Slinger Indicator:</b>	No Slinger
	4.800 A @ 190.0 V	<b>Speed Code:</b>	Single Speed
	2.500 A @ 460.0 V	<b>Motor Standards:</b>	NEMA
	2.400 A @ 380.0 V	<b>Starting Method:</b>	Direct on line
<b>Design Code:</b>	B	<b>Thermal Device - Bearing:</b>	NONE (OLD)
<b>Drip Cover:</b>	No Drip Cover	<b>Thermal Device - Winding:</b>	Normally Closed Thermostat
<b>Duty Rating:</b>	CONT	<b>Vibration Sensor Indicator:</b>	No Vibration Sensor
<b>Electrically Isolated Bearing:</b>	Not Electrically Isolated	<b>Winding Thermal 1:</b>	None
<b>Feedback Device:</b>	NO FEEDBACK	<b>Winding Thermal 2:</b>	None
		<b>XP Temp Code:</b>	T3C

Nameplate NP1426XPSLEV	
NO.	[ ] CC 010A
SER.	[ ]
SPEC.	35E362M774G1
CAT.NO.	EM7071T
HP	2//1.5 T. CODE T3C
VOLTS	230/460//190/380
AMPS	5/2.5//4.8/2.4
RPM	3490//2890
HZ	60//50 PH 3 CL B
SER.F.	1.00 DES B CODE M
RATING	40C AMB-CONT
FRAME	143T NEMA-NOM-EFF 85.5
USABLE AT 208V	5.3 PF 88
BLANK	[ ]

Parts List		
Part Number	Description	Quantity
SA199920	SA 35E362M774G1	1.000 EA
RA187242	RA 35E362M774G1	1.000 EA
35CB3001A02G	EXPL PROOF CONDUIT BOX,3/4"PIPE TAP LEAD	1.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 EA
35EP3700A01SP	FR ENDPLATE, XPFC	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3701A01	PU ENDPLATE, XPFC - 205 BRG	1.000 EA
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 EA
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
35FH4005A01SP	IEC FH NO GREASER W/PRIMED	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
35CB3500A01G	CONDUIT BOX LID, MACH W/FLUIDIZED GRAY	1.000 EA
51XN2520A16	SCREW, HEX WS SLT, ZN, 1/4-20 X 1.00	4.000 EA
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	6.000 EA
NP0018F	ALUM UL XP CONDUIT BOX NAMEPLATE	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 EA
MG1025G29	WILKOFAS, 789.229, DARK CHARCOAL GRAY	0.014 GA
HA3104A08	THRUBOLT-5/16-18X9.375 X X	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0145B01	CONNECTION LABEL	1.000 EA

<b>Parts List (continued)</b>		
<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 5/18	1.000 EA
NP1426XPSLEV	SS XP UL CSA-EEV CC CL-I GP-D	1.000 EA
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA

**AC Induction Motor Performance Data**

Record # 50806 - Typical performance - not guaranteed values

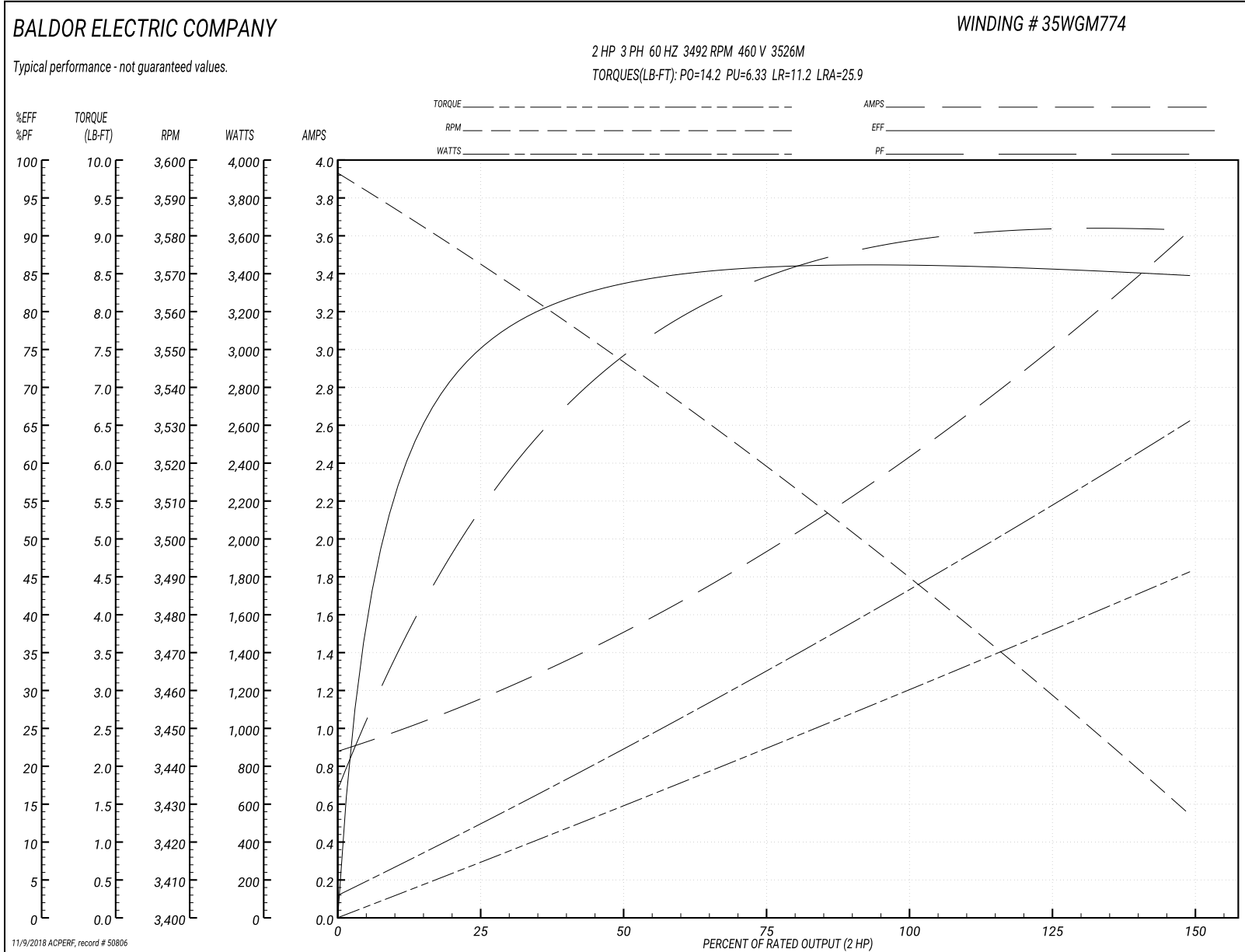
<b>Winding:</b> 35WGM774-R055	<b>Type:</b> 3526M	<b>Enclosure:</b> XPFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	2//1.5			Full Load Torque	2.98 LB-FT
Volts	230/460//190/380			Start Configuration	direct on line
Full Load Amps	5/2.5//4.8/2.4			Breakdown Torque	14.2 LB-FT
R.P.M.	3490//2890			Pull-up Torque	6.33 LB-FT
Hz	60//50	Phase	3	Locked-rotor Torque	11.2 LB-FT
NEMA Design Code	B	KVA Code	M	Starting Current	25.9 A
Service Factor (S.F.)	1			No-load Current	0.912 A
NEMA Nom. Eff.	85.5	Power Factor	88	Line-line Res. @ 25°C	6.88 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	44°C
				Locked-rotor Power Factor	49.9
				Rotor inertia	0.0719 LB-FT <sup>2</sup>

Load Characteristics 460 V, 60 Hz, 2 HP

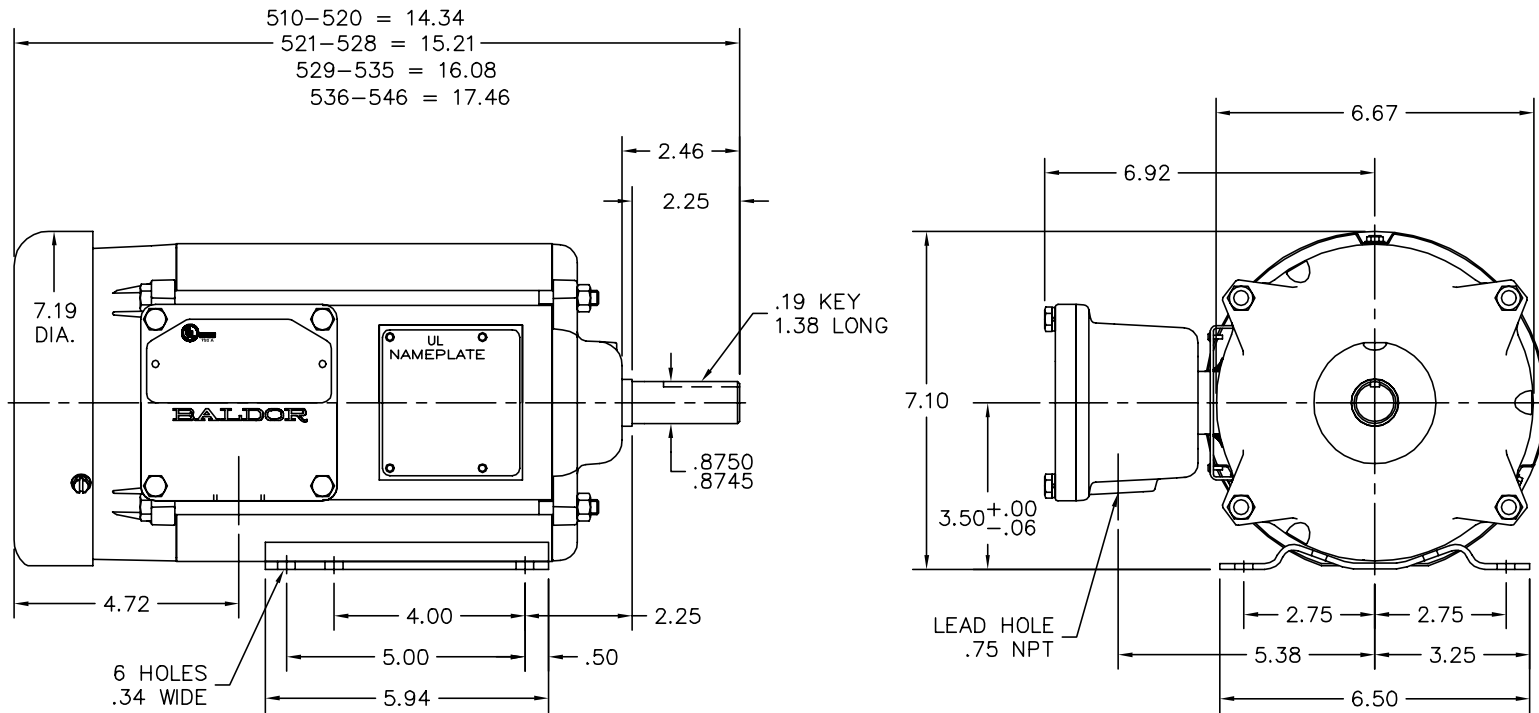
% of Rated Load	25	50	75	100	125	150
Power Factor	55	75	84	88	90	91
Efficiency	73.4	83.6	85.8	86.3	85.8	84.7
Speed	3572	3547	3520	3492	3461	3426
Line amperes	1.1	1.47	1.93	2.44	3	3.61

Performance Graph at 460V, 60Hz, 2.0HP Typical performance - Not guaranteed values





35LYE362



CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: UPDATE PARTS TO MATCH MECH BOM		
REV. LTR: J	VERSION: 03	TDR: 000001040388
FILE: \AAA\00005\337	REVISED: 09: 37: 05 08/23/2017	BY: ENMAIYO
MTL: -		

**BALDOR**

STD HORZ NEMA 143-5T XPFC X35M CL-I GP-D CL-II GP-F&G

SH 1 of 1

35LYE362

CD0005

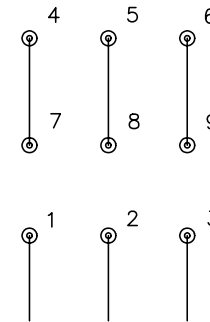


LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
9000D		FILE: AAA00005140	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS

CD0005