

BALDOR® • RELIANCE

Product Information Packet

CEM7071T

1.5//2HP,2890//3490RPM,3PH,50//60HZ,145T

Part Detail							
Revision:	M	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3526M	Elec. Spec:	35WGM774	CD Diagram:	CD0005
Enclosure:	XPFC	Mfg Plant:		Mech. Spec:	35E377	Layout:	35LYE377
Frame:	145TC	Mounting:	F1	Poles:	02	Created Date:	07-26-2010
Base:	RG	Rotation:	R	Insulation:	B	Eff. Date:	01-19-2017
Leads:	9#18					Replaced By:	
Literature:		Elec. Diagram:					

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
SER.F.	1.00	DES	B
RATING	40C AMB-CONT	CL	B
FRAME	145TC	CODE	M
USABLE AT 208V	5.3	NEMA-NOM-EFF	85.5
BLANK		PF	88

Parts List		
Part Number	Description	Quantity
SA200338	SA 35E377M774G2	1.000 EA
RA187652	RA 35E377M774G2	1.000 EA
MJ5000A09	EFI KIT #1578 (400 ML CARTRIDGE OF EFI	0.050 EA
35CB3001A02SP	EXPL PROOF CONDUIT BOX, 3/4"PIPE TAP LEA	1.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
HW3001B01	BRASS CUP WASHER, FOR #8 SCREW	1.000 EA
35EP3700A01SP	FR ENDPLATE, XPFC	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3702A01SP	PU EP-205 BRG-35X-56C-143-5TC	1.000 EA
51XN1032A18	10-32 X 1 1/8 HX WS SL SR (ESKAY)	2.000 EA
HA3013A01	1/2-20X5/8 SPL.HX BOLT	2.000 EA
HW3021C06	3/32 DI X .625 PIN (F/S)	2.000 EA
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 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
35CB3500A01SP	CONDUIT BOX LID, MACH	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
NP0018W	ALUM UL XP CONDUIT BOX NAMEPLATE	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 EA
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
MG1025G29	WILKOFEST, 789.229, DARK CHARCOAL GRAY	0.014 GA
HA3104A08	THRUBOLT-5/16-18X9.375 X X	4.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1000/bx) 11/14	1.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0145B01	CONNECTION LABEL	1.000 EA
NP1426XPSLEV	SS XP UL CSA-EEV CC CL-I GP-D	1.000 EA
35PA1007	PKG GRP, PRINT PK1034A06	1.000 EA

AC Induction Motor Performance Data

Record # 31998 - Typical performance - not guaranteed values

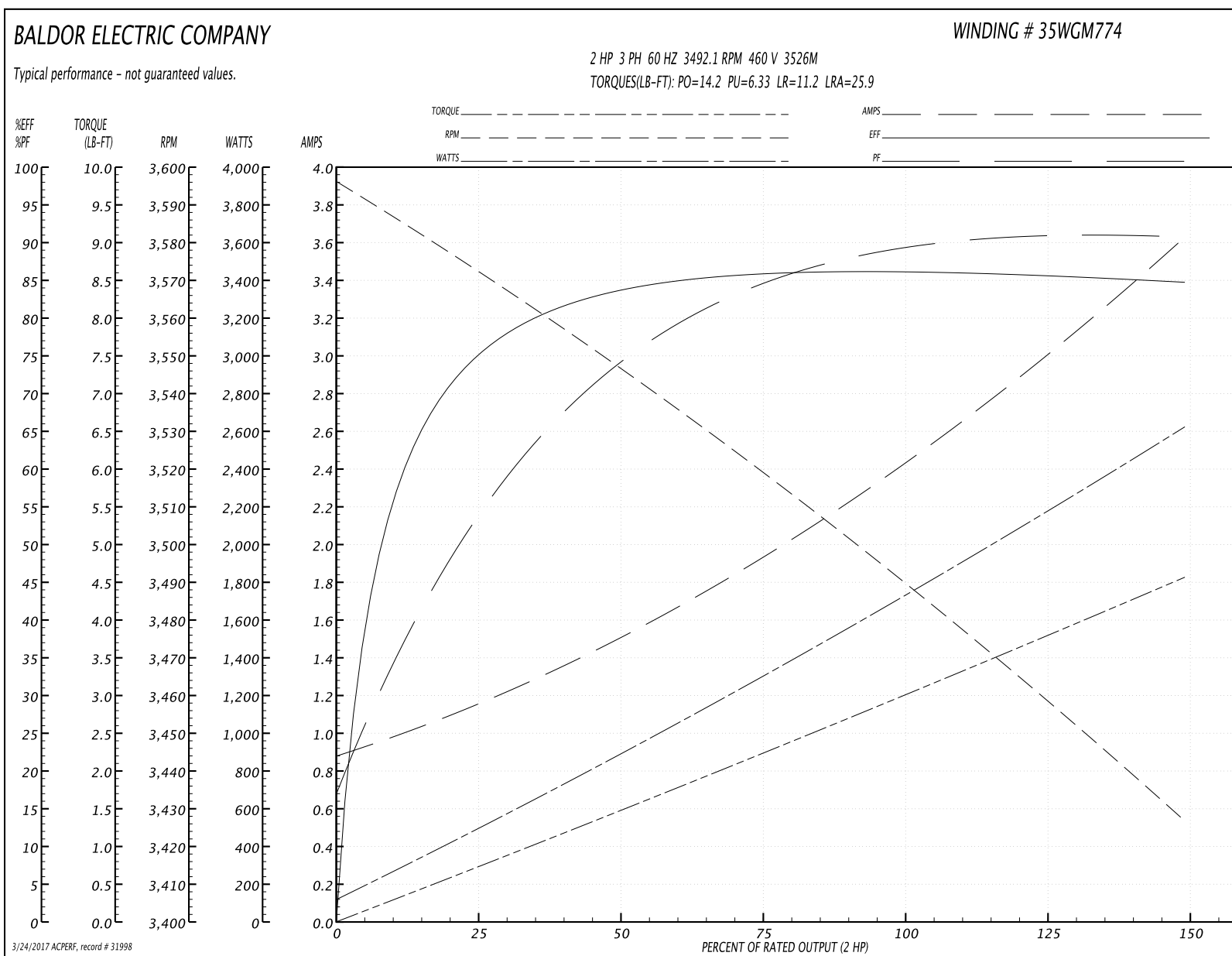
Winding: 35WGM774-R003	Type: 3526M	Enclosure: XPFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1.5//2			Full Load Torque	2.98 LB-FT
Volts	190/380//230/460			Start Configuration	direct on line
Full Load Amps	4.8/2.4//5/2.5			Breakdown Torque	14.2 LB-FT
R.P.M.	2890//3490			Pull-up Torque	6.33 LB-FT
Hz	50//60	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	6.9119 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	44°C
				Locked-rotor Power Factor	50
				Rotor inertia	0.0719 LB-FT ²

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

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



AC Induction Motor Performance Data

Record # 31999 - Typical performance - not guaranteed values

Winding: 35WGM774-R003	Type: 3526M	Enclosure: XPFC
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Nameplate Data				380 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	1.5//2			Full Load Torque	2.69 LB-FT
Volts	190/380//230/460			Start Configuration	direct on line
Full Load Amps	4.8/2.4//5/2.5			Breakdown Torque	13.2 LB-FT
R.P.M.	2890//3490			Pull-up Torque	6.62 LB-FT
Hz	50//60	Phase	3	Locked-rotor Torque	11.7 LB-FT
NEMA Design Code	B	KVA Code	M	Starting Current	24.4 A
Service Factor (S.F.)	1			No-load Current	0.893 A
NEMA Nom. Eff.	85.5	Power Factor	88	Line-line Res. @ 25°C	6.86 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	38°C
				Locked-rotor Power Factor	56
				Rotor inertia	0.0719 LB-FT ²

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

Performance Graph at 380V, 50Hz, 1.5HP Typical performance - Not guaranteed values

