

BALDOR® • RELIANCE

Product Information Packet

CM8004

1.5HP,1735RPM,3PH,60HZ,56C,3520M,TEFC,F1

Part Detail							
Revision:	D	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3520M	Elec. Spec:	35WGP801	CD Diagram:	CD0005
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	35E629	Layout:	35LYE629
Frame:	56C	Mounting:	F1	Poles:	04	Created Date:	08-10-2010
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	09-15-2014
Leads:	9#18					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1261E										
CAT.NO.	CM8004									
SPEC.	35E629P801G1									
HP	1.5									
VOLTS	208-230/460									
AMP	5-4.6/2.3									
RPM	1735									
FRAME	56C	HZ			60	PH		3		
SER.F.	1.15	CODE			L	DES		B	CL	F
NEMA-NOM-EFF	81.5	PF			74					
RATING	40C AMB-CONT									
CC		USABLE AT 208V								
DE	6205	ODE			6203					
ENCL	TEFC	SN								

Parts List		
Part Number	Description	Quantity
SA201719	SA 35E629P801G1	1.000 EA
RA189014	RA 35E629P801G1	1.000 EA
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB1001A01G	SPL CONDUIT BOX, MACHINED	1.000 EA
35GS1022A02	GASKET BOX .06 THK NEOP BLK HDN 30-40 DU	1.000 EA
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
HW3001B01	003SS CUP WASHER, FOR #8 SCREW	1.000 EA
35EP1100A01WP	FREP, MACH, WHITE PRIMER POWDER COAT	1.000 EA
HA4067A01	PUSH IN DRAIN FITTING (BLACK)	1.000 EA
HW5100A03SP	WAVY WASHER (W1543-017)	1.000 EA
35EP1300A01G	PU ENDPLATE, MACH, GRAY	1.000 EA
HA4067A01	PUSH IN DRAIN FITTING (BLACK)	1.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 EA
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
35FH4005A01SP	IEC FH NO GREASER W/AUTOPHORETIC PRIMER	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
35CB4516	CONDUIT BOX LID, AUTOPHORETIC	1.000 EA
36GS1002	GASKET, 1/16" NEOPRENE CONDUIT BOX LID	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HA1005A05SP	SLINGER, OD 1.50, ID .659, 203 BRG	1.000 EA
HW4600B32SP	V-RING SLINGER 1.000 X 1.540 X 0.240	1.000 EA
HW2502D13	SS KEY, 3/16 SQ X 1.375	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 EA
MJ5001A27	32220KN GRAY SEALER	0.001 QT
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
LB1000	LABEL, DIRTY DUTY	1.000 EA
MJ1000A75	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
MG1025G29	MUNSELL 4.5Y 5.3/0.7 DARK CHARCOAL GREY	0.017 GA
MG1500Y02	PRIMER,347.29+347.29C ACTIVATOR WILKOPON	0.017 GA
HA3100A12	THRUBOLT 10-32 X 7.375	4.000 EA
LB1125C01	STD (STOCK) CARTON LABEL BALDOR WITH FLA	1.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP1261E	SS UL CSA CC	1.000 EA
PA1000	PACKING GROUP 3500 SHORT	1.000 EA
LB1506	LABEL "AMERICAN MADE" 1.50 X 1.00	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 10/13	1.000 EA

AC Induction Motor Performance Data

Record # 44110 - Typical performance - not guaranteed values

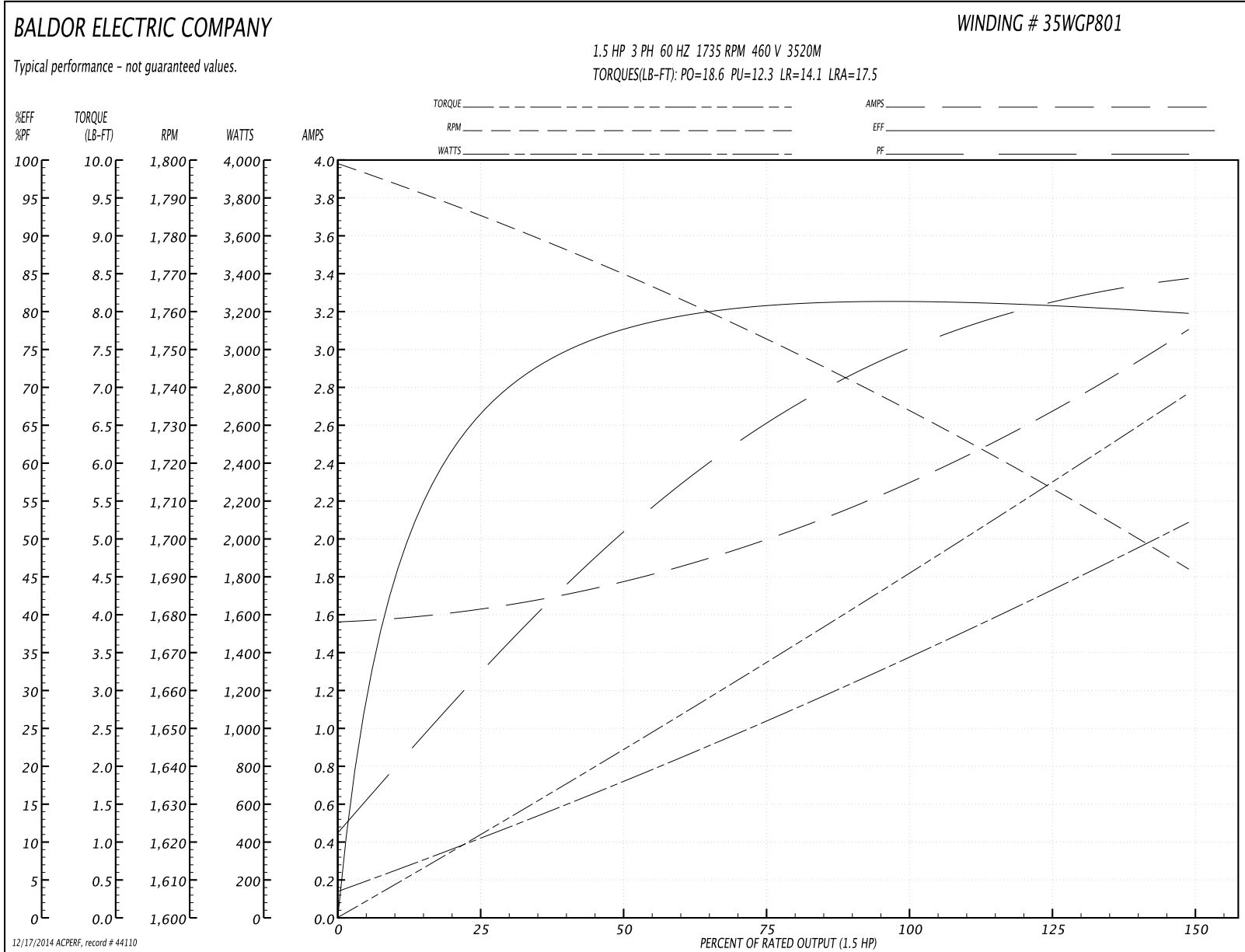
Winding: 35WGP801-R001	Type: 3520M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	1.5			Full Load Torque	4.5 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	5-4.6/2.3			Breakdown Torque	18.6 LB-FT
R.P.M.	1735			Pull-up Torque	12.3 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	14.1 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	17.5 A
Service Factor (S.F.)	1.15			No-load Current	1.57 A
NEMA Nom. Eff.	81.5	Power Factor	74	Line-line Res. @ 25°C	12.1 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	71°C
S.F. Amps				Temp. Rise @ S.F. Load	81°C
				Rotor inertia	0.118 LF ²

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	51	65	74	81	85	78
Efficiency	65.9	77	80.9	81.5	81	79.7	81.2
Speed	1786	1770	1753	1735	1714	1692	1722
Line amperes	1.62	1.76	1.99	2.3	2.66	3.1	2.52

Performance Graph at 460V, 60Hz, 1.5HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 44111 - Typical performance - not guaranteed values

Winding: 35WGP801-R001	Type: 3520M	Enclosure: TEFC
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Nameplate Data				400 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	1.5			Full Load Torque	4.54 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	5-4.6/2.3			Breakdown Torque	13.9 LB-FT
R.P.M.	1735			Pull-up Torque	9.06 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	10.4 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	15 A
Service Factor (S.F.)	1.15			No-load Current	1.18 A
NEMA Nom. Eff.	81.5	Power Factor	74	Line-line Res. @ 25°C	12.1 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	65°C
S.F. Amps				Temp. Rise @ S.F. Load	79°C
				Rotor inertia	0.118 LF ²

Load Characteristics 400 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	65	80	86	91	92	89
Efficiency	74.1	82.1	83.7	82.7	80.7	78.2	81.5
Speed	1782	1762	1740	1717	1689	1659	1700
Line amperes	1.26	1.48	1.81	2.24	2.74	3.34	2.54

Performance Graph at 400V, 60Hz, 1.5HP Typical performance - Not guaranteed values

