



Product Information Packet

CFM3166A

1.5HP AIROVER, 1140RPM, 3PH, 60HZ, 56YZ, OPAO

Part Detail							
Revision:	AM	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGY797	CD Diagram:	CD0007	Mfg Plant:	
Mech. Spec:	35K306	Layout:	35LYK306	Poles:	06	Created Date:	
Base:	N	Eff. Date:	04-26-2018	Leads:	12#18		

Specs			
Catalog Number:	CFM3166A	Insulation Class:	F
Enclosure:	OPAO	Inverter Code:	Not Inverter
Frame:	56YZ	KVA Code:	J
Frame Material:	Steel	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	1.500 HP @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
Synchronous Speed @ Frequency:	1200 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	12 @ 18 AWG
Voltage @ Frequency:	208.0 V @ 60 HZ	Motor Lead Exit:	Terminal Panel
	230.0 V @ 60 HZ	Motor Lead Termination:	None
	460.0 V @ 60 HZ	Motor Type:	3534M
XP Class and Group:	None	Mounting Arrangement:	F1
XP Division:	Not Applicable	Power Factor:	72
Agency Approvals:	UR	Product Family:	General Purpose
	CSA	Pulley End Bearing Type:	Sealed Bearing
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Terminal Panel
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Key And Flat
Base Indicator:	No Mounting	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	RoHS Status:	ROHS COMPLIANT
Blower:	None	Shaft Extension Location:	Pulley End

Current @ Voltage:	2.500 A @ 460.0 V	Shaft Ground Indicator:	No Shaft Grounding
	5.000 A @ 230.0 V	Shaft Rotation:	Reversible
	5.500 A @ 208.0 V	Shaft Slinger Indicator:	No Slinger
Design Code:	B	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Bearing:	NONE (OLD)
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	Do Not Use Eve-Not Valid
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	Automatic Thermal Overload
Heater Indicator:	No Heater	Winding Thermal 1 Location:	SB
		Winding Thermal 2:	None

Nameplate NP1257L

CAT.NO.	CFM3166A														
SPEC.	35K306Y797														
HP	1.5 AIR OVER														
VOLTS	208-230/460														
AMP	5.5-5/2.5														
RPM	1140														
FRAME	56YZ				HZ			60		PH		3			
SER.F.	1.15			CODE		J		DES		B		CL		F	
NEMA-NOM-EFF	76			PF		72									
RATING	60C AMB-CONT														
CC				USABLE AT 208V							5.5				
DE	6203			ODE		6205									
ENCL	OPAO		SN												

Parts List		
Part Number	Description	Quantity
SA026294	SA 35K306Y797	1.000 EA
RA022344	RA 35K306Y797	1.000 EA
TPMYJ43KR	THERMAL 3PH .75 AUT 135 X	1.000 EA
RM1001A01	GROMMET "MIDSTATES"	1.000 EA
53XT0832G07	8-32X7/16 PN STD SR TY23G X	1.000 EA
HA6001A01	THERMAL RETAINER (PLATED)	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 EA
35EP3210B00	MASTER DE,205 BRG,1.000SH	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 EA
MJ5004A05	#242-21 LOCTITE GENERAL PURPOSE MED. STR	0.010 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3102B42	PUEP SH THRU HOLE .50 NPT, 2 #26 DRILL F	1.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 EA
35CB4500SP	TERMINAL BOX LID STAMPED	1.000 EA
HA1041A01	CUPPED SLINGER KENCO	1.000 EA
HW2501D40	KEY, 3/16 SQ X 4.750	1.000 EA
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
10XN2520A06	1/4 20X3/8 HX HD CAP	3.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
35GS1002A02	GASKET,1/16 THICK NEOPRE.FT.SMITH MADE	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 EA
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.017 GA
SP5079A02	MODEL 35 3PH TERM PANEL CONN 12LD DUAL V	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HA3100A41	THRUBOLT 10-32 X 10.500	4.000 EA
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 EA
LC0007A01	CONN LABEL TYPE M,DV,REV,12LD 2Y/1Y TERM	1.000 EA
NP1257L	ALUM UL CSA CC THERMAL REV MTG	1.000 EA
G7PA1000	PKG GRP, PRINT PK1034A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 5/18	1.000 EA

AC Induction Motor Performance Data

Record # 61269 - Typical performance - not guaranteed values

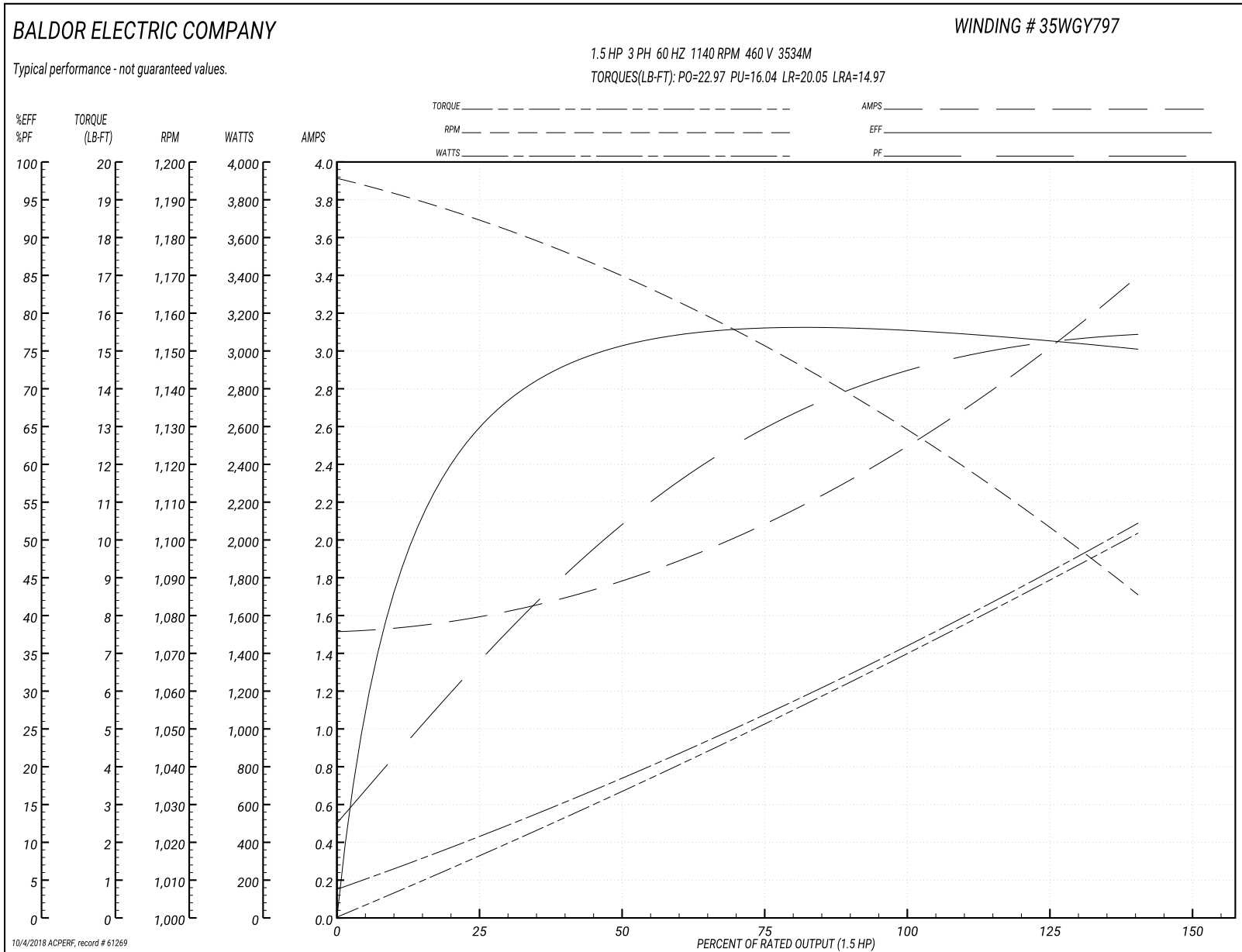
Winding: 35WGY797-R003	Type: 3534M	Enclosure: OPAO
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1.5 AIR OVER			Full Load Torque	6.8 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	5.5-5/2.5			Breakdown Torque	22.97 LB-FT
R.P.M.	1140			Pull-up Torque	16.04 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	20.05 LB-FT
NEMA Design Code	B	KVA Code	J	Starting Current	14.97 A
Service Factor (S.F.)	1.15			No-load Current	1.5 A
NEMA Nom. Eff.	76	Power Factor	72	Line-line Res. @ 25°C	13.7 Ω
Rating - Duty	60C AMB-CONT			Temp. Rise @ Rated Load	54°C
S.F. Amps				Temp. Rise @ S.F. Load	66°C
				Locked-rotor Power Factor	57
				Rotor inertia	0.202 LB-FT ²

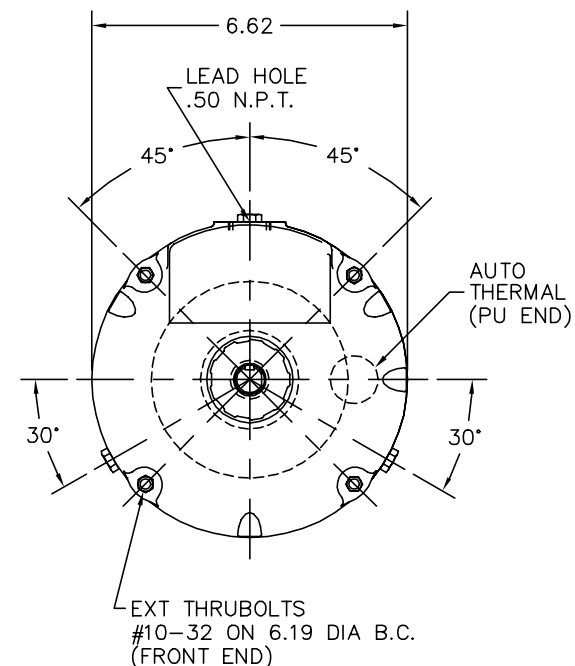
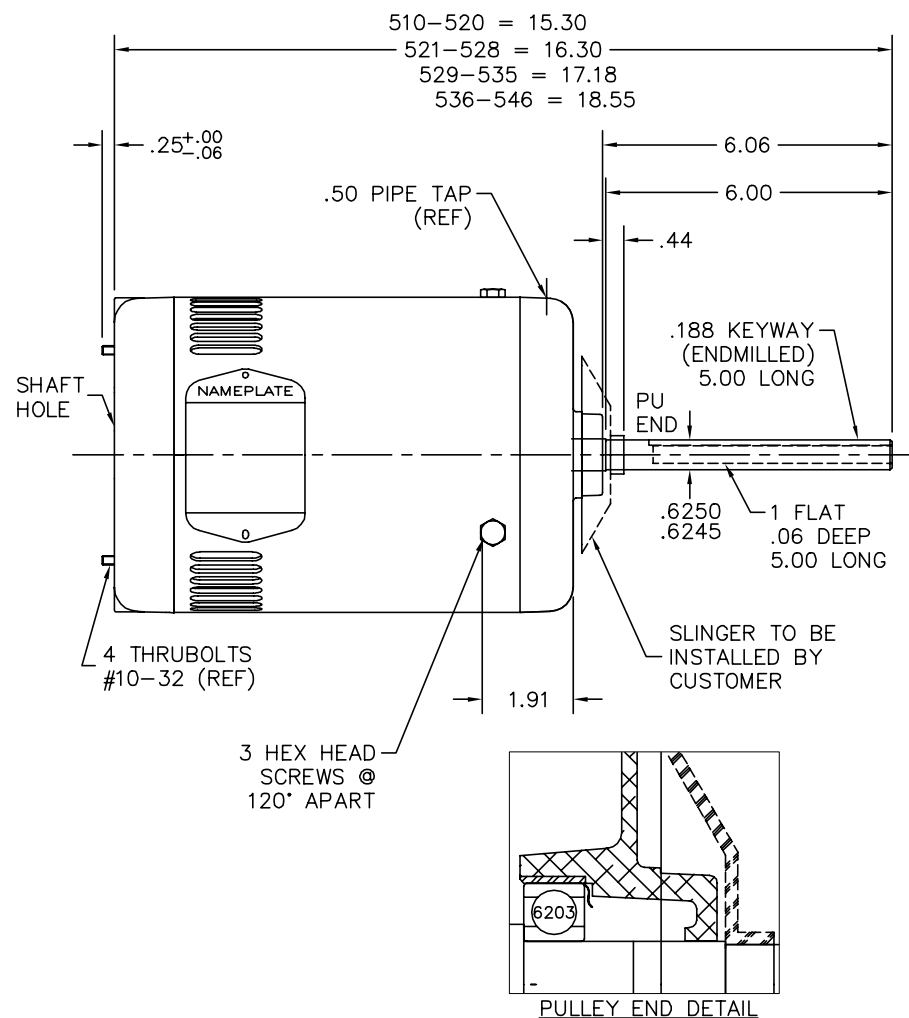
Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	52	64	73	75	77	78
Efficiency	63.9	75	78	78.5	76.9	74.9	77.6
Speed	1183	1168	1152	1133	1110	1084	1120
Line amperes	1.61	1.8	2.1	2.4	2.91	3.41	2.7

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



35LYK306



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

REV. DESC: REPLACE ENDPLATES

REV. LTR: M

VERSION: 02

TDR: 000001041474

FILE: \AAA\00015\695

REVISED: 10:26:02 08/30/2017

BY: USJOBUR22

MTL: -


BALDOR

HOR LESS BASE 56YZ OPEN 35M TP. ENCL PUEP

SH 1 of 1

35LYK306

