

BALDOR® • RELIANCE 

Product Information Packet

M1221T

1.5/.67HP, 1725/1140RPM, 3PH, 60HZ, 182T

Part Detail							
Revision:	AA	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	36WG0456	CD Diagram:	CD0013	Mfg Plant:	
Mech. Spec:	36B001	Layout:	36LYB001	Poles:	04/06	Created Date:	
Base:	RG	Eff. Date:	01-23-2020	Leads:	6#16		

Specs			
Catalog Number:	M1221T	Insulation Class:	F
Enclosure:	OPEN	Inverter Code:	Not Inverter
Frame:	182T	KVA Code:	H
Frame Material:	Steel	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	1.500 HP @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
	.670 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	6 @ 16 AWG
Synchronous Speed @ Frequency:	1200 RPM @ 60 HZ	Motor Lead Exit:	Ko Box
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3623M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	Product Family:	General Purpose
	CSA	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Standard
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Extension Location:	Pulley End
Blower:	None	Shaft Ground Indicator:	No Shaft Grounding
Current @ Voltage:	2.200 A @ 460.0 V	Shaft Rotation:	Reversible

Design Code:	-	Shaft Slinger Indicator:	No Slinger
Drip Cover:	No Drip Cover	Speed Code:	2S-2W-VT
Duty Rating:	CONT	Motor Standards:	NEMA
Electrically Isolated Bearing:	Not Electrically Isolated	Starting Method:	Direct on line
Feedback Device:	NO FEEDBACK	Thermal Device - Bearing:	None
Front Face Code:	Standard	Thermal Device - Winding:	None
Front Shaft Indicator:	None	Vibration Sensor Indicator:	No Vibration Sensor
Heater Indicator:	No Heater	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP1256L										
CAT.NO.	M1221T									
SPEC.	36B01-456									
HP	1.5/.67									
VOLTS	460									
AMP	2.2/1.4									
RPM	1725/1140									
FRAME	182T				HZ	60			PH	3
SER.F.	1.15		CODE	H	DES	-		CLASS	F	
NEMA-NOM-EFF			PF							
RATING	40C AMB-CONT									
CC									USABLE AT 208V	
DE	6206				ODE	6205				
ENCL	OPEN		SN							

Parts List		
Part Number	Description	Quantity
SA034197	SA 36B01-456	1.000 EA
RA030225	RA 36B01-456	1.000 EA
36CB3004	36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0	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	BRASS CUP WASHER, FOR #10 SCREW	1.000 EA
36EP3204B00	MASTER ODE,205 BRG,GRSR	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 EA
36EP3205D00	MASTER DE,206 BRG,1.197SH,GRSR	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
XY2520A12	1/4-20 HEX NUT, DIRECTIONAL SERRATIONS	4.000 EA
36CB4516	36 LIPPED CB LID - GALVANNEAL	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2501E16	KEY, 1/4 SQ X 1.750	1.000 EA
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.022 GA
HA3101A23	THRUBOLT 1/4-20 X 9.625 DEMBY	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0013	CONNECTION LABEL	1.000 EA
NP1256L	ALUM UL CSA CC INDUSTRIAL MOTOR A60	1.000 EA
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 3/19	1.000 EA
PE-0000001	ZRTG PE ASSEMBLY	1.000 EA
FE-0000001	ZRTG FE ASSEMBLY	1.000 EA

Accessories		
Part Number	Description	Multiplier
36-3403	C FACE KIT	A8
36EP1405A09SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data

Record # 61306 - Typical performance - not guaranteed values

Winding: 36WG0456-R002	Type: 3623M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	1.5/.67			Full Load Torque	4.6 LB-FT
Volts	460			Start Configuration	direct on line
Full Load Amps	2.2/1.4			Breakdown Torque	16 LB-FT
R.P.M.	1725/1140			Pull-up Torque	9 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	14 LB-FT
NEMA Design Code	-	KVA Code	H	Starting Current	12.3 A
Service Factor (S.F.)	1.15			No-load Current	1 A
NEMA Nom. Eff.	0	Power Factor	0	Line-line Res. @ 25°C	20.3 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	28°C
S.F. Amps				Temp. Rise @ S.F. Load	35°C
				Locked-rotor Power Factor	73.9
				Rotor inertia	0.216 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	50	72	85	85	87	89	86
Efficiency	67	76.8	79	78.7	76.9	73.9	77.6
Speed	1779	1760	1739	1715	1687	1653	1698
Line amperes	1.1	1.3	1.6	2.1	2.6	3.1	2.4

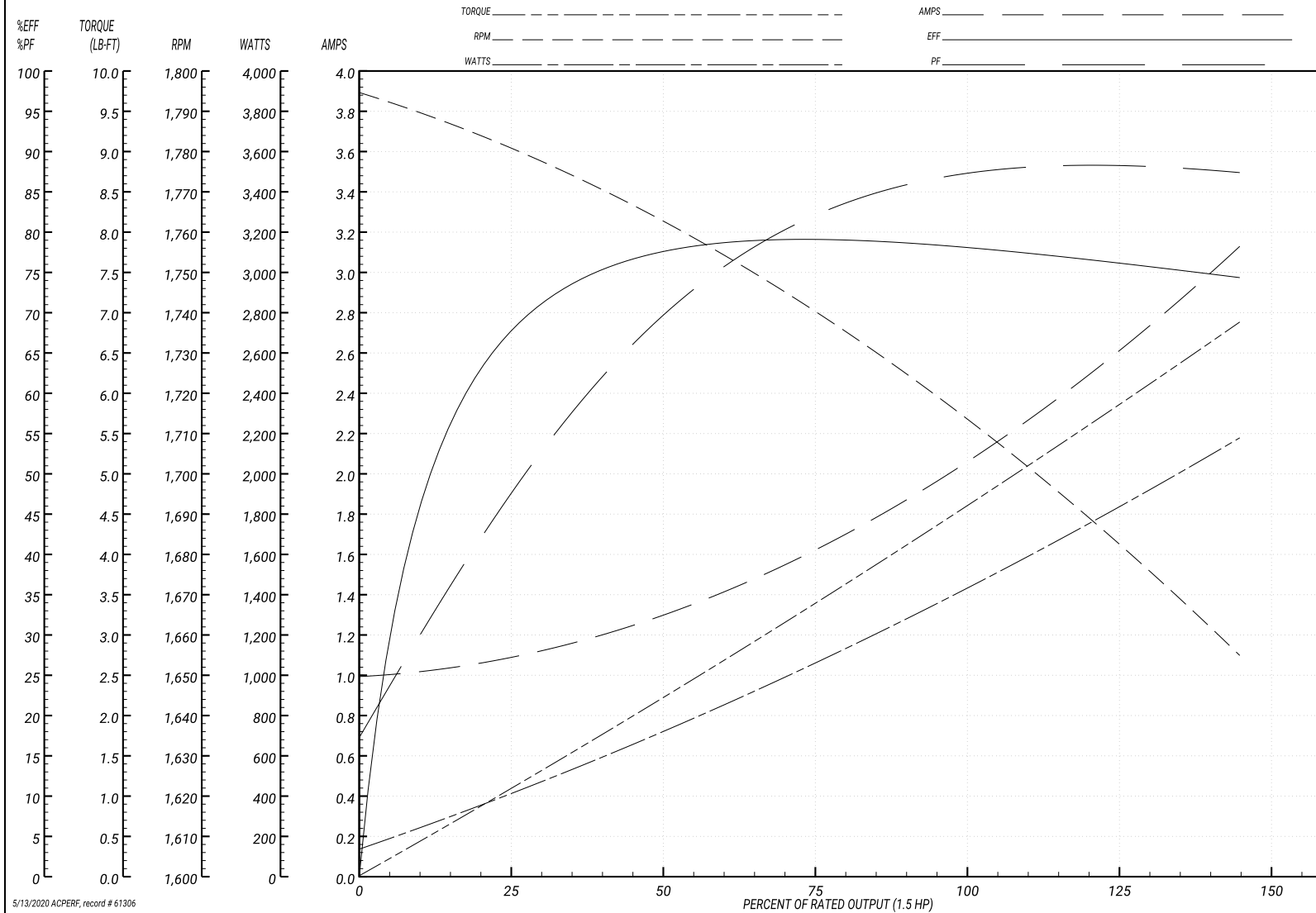
Performance Graph at 460V, 60Hz, 1.5HP Typical performance - Not guaranteed values

ABB Motors and Mechanical Inc.

WINDING # 36WG0456

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1715 RPM 460 V 3623M
 TORQUES(LB-FT): PO=16 PU=9 LR=14 LRA=12.3



5/13/2020 ACPERF, record # 61306

AC Induction Motor Performance Data

Record # 61307 - Typical performance - not guaranteed values

Winding: 36WG0456-R002	Type: 3623M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: Low Speed Connection	
Rated Output (HP)	1.5/.67			Full Load Torque	3 LB-FT
Volts	460			Start Configuration	direct on line
Full Load Amps	2.2/1.4			Breakdown Torque	10 LB-FT
R.P.M.	1725/1140			Pull-up Torque	5.5 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	7 LB-FT
NEMA Design Code	-	KVA Code	H	Starting Current	6.5 A
Service Factor (S.F.)	1.15			No-load Current	1.1 A
NEMA Nom. Eff.	0	Power Factor	0	Line-line Res. @ 25°C	35.2 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	26°C
S.F. Amps				Temp. Rise @ S.F. Load	29°C
				Locked-rotor Power Factor	72.8
				Rotor inertia	0.216 LB-FT ²

Load Characteristics 460 V, 60 Hz, 0.67 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	43	57	67	71	79	69
Efficiency	46.1	61.5	68.4	71.5	72.7	72.7	72.2
Speed	1190	1181	1173	1163	1152	1140	1156
Line amperes	1.1	1.2	1.2	1.3	1.5	1.6	1.42

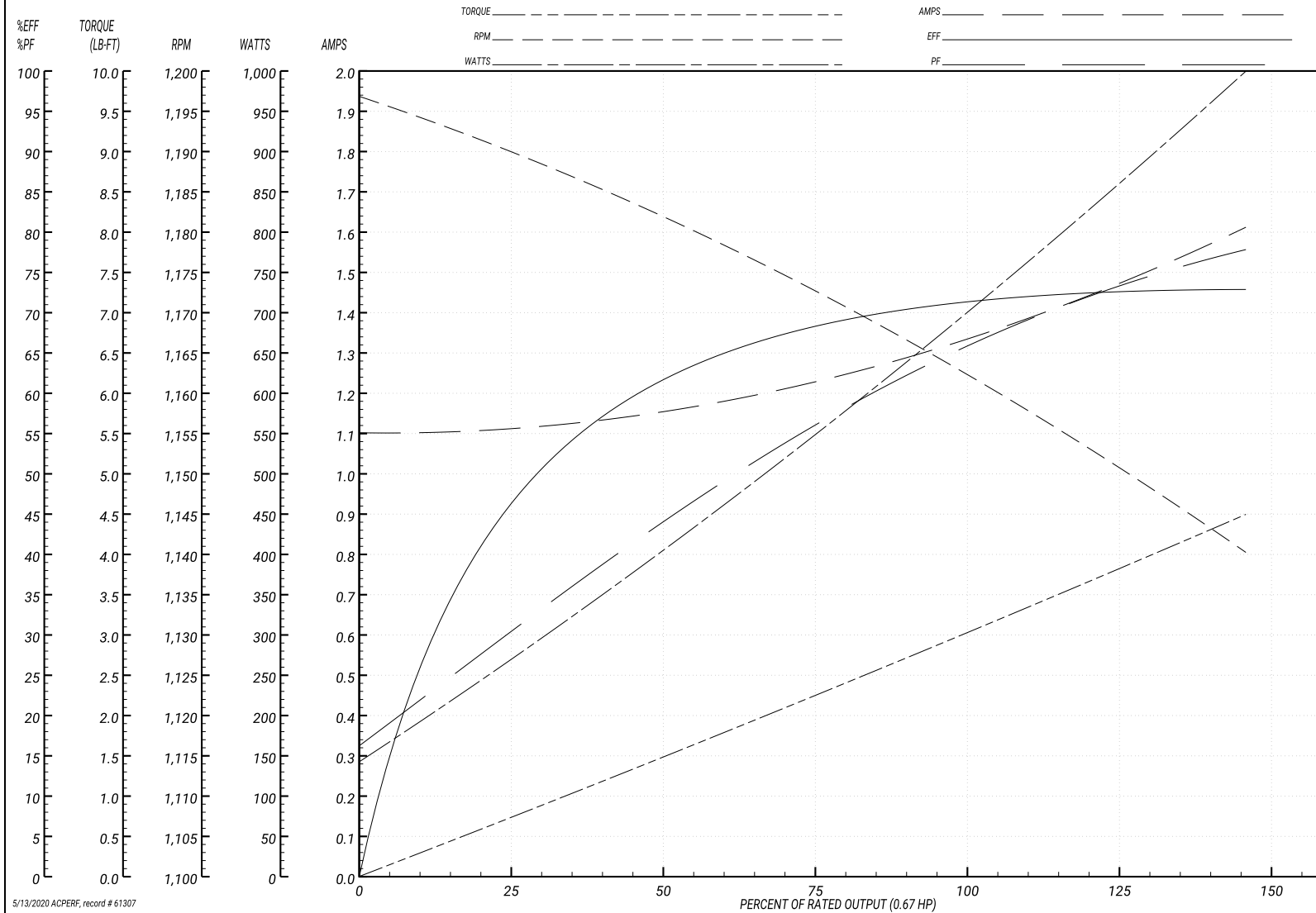
Performance Graph at 460V, 60Hz, 0.67HP Typical performance - Not guaranteed values

ABB Motors and Mechanical Inc.

WINDING # 36WG0456

Typical performance - not guaranteed values.

0.67 HP 3 PH 60 HZ 1163 RPM 460 V 3623M
 TORQUES(LB-FT): PO=10 PU=5.5 LR=7 LRA=6.5



5/13/2020 ACPERF, record # 61307

