

BALDOR® • RELIANCE

Product Information Packet

EM3587T

2HP,1750RPM,3PH,60HZ,145T,0527M,TEFC,F1

Part Detail							
Revision:	S	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	0528M	Elec. Spec:	05WGX095	CD Diagram:	CD0005
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	05C001	Layout:	05LYC001
Frame:	145T	Mounting:	F1	Poles:	04	Created Date:	04-26-2010
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	04-19-2016
Leads:	9#18					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP3441LUA

CAT.NO.	EM3587T												
SPEC.	05C001X095E7												
HP	2												
VOLTS	230/460												
AMP	5.8/2.9												
RPM	1750												
FRAME	145T				HZ		60				PH		3
SER.F.	1.15		CODE		L	DES		B	CL		F		
NEMA-NOM-EFF	86.5			PF		75							
RATING	40C AMB-CONT												
CC	010A			USABLE AT 208V								5.8	
DE	6205			ODE		6203							
ENCL	TEFC		SN										

 VPWM INVERTER READY
 CT6-60H(10:1)VT3-60H(20:1)

50Hz 2HP 190/380V 6.6/3.3A

SF1.0

Parts List		
Part Number	Description	Quantity
SA193950	SA 05C001X095E7	1.000 EA
RA181544	RA 05C001X095E7	1.000 EA
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 EA
06CB3000	BALDOR CONDUIT BOX CAST	1.000 EA
06GS1000	GASKET,CONDUIT BOX	1.000 EA
51XW2520A12	SCREW, HEX SER SLT HD, ZN, 1/4-20 X .75	2.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
HW3001B02	BRASS CUP WASHER W/GROUND SYMBOL TAB,	1.000 EA
35EP1100A02	FR ENDPLATE, TEFC W/GREASER	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP1102A02	PU ENDPLATE, MACH	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HA3100A37	THRUBOLT 10-32 X 8.500	4.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 EA
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
35FH4005A02	IEC FH W/GREASER - W/PRIMER	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
06CB3500	BALDOR CONDUIT BOX LID	1.000 EA
06GS1001	BALDOR CONDUIT BOX GASKET	1.000 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	2.000 EA

Parts List (continued)		
Part Number	Description	Quantity
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.022 GA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP3441LUA	ALUM SUPER-E VPWM INV READY UL	1.000 EA
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 11/14	1.000 EA

Accessories		
Part Number	Description	Multiplier
35-1300	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 32606 - Typical performance - not guaranteed values

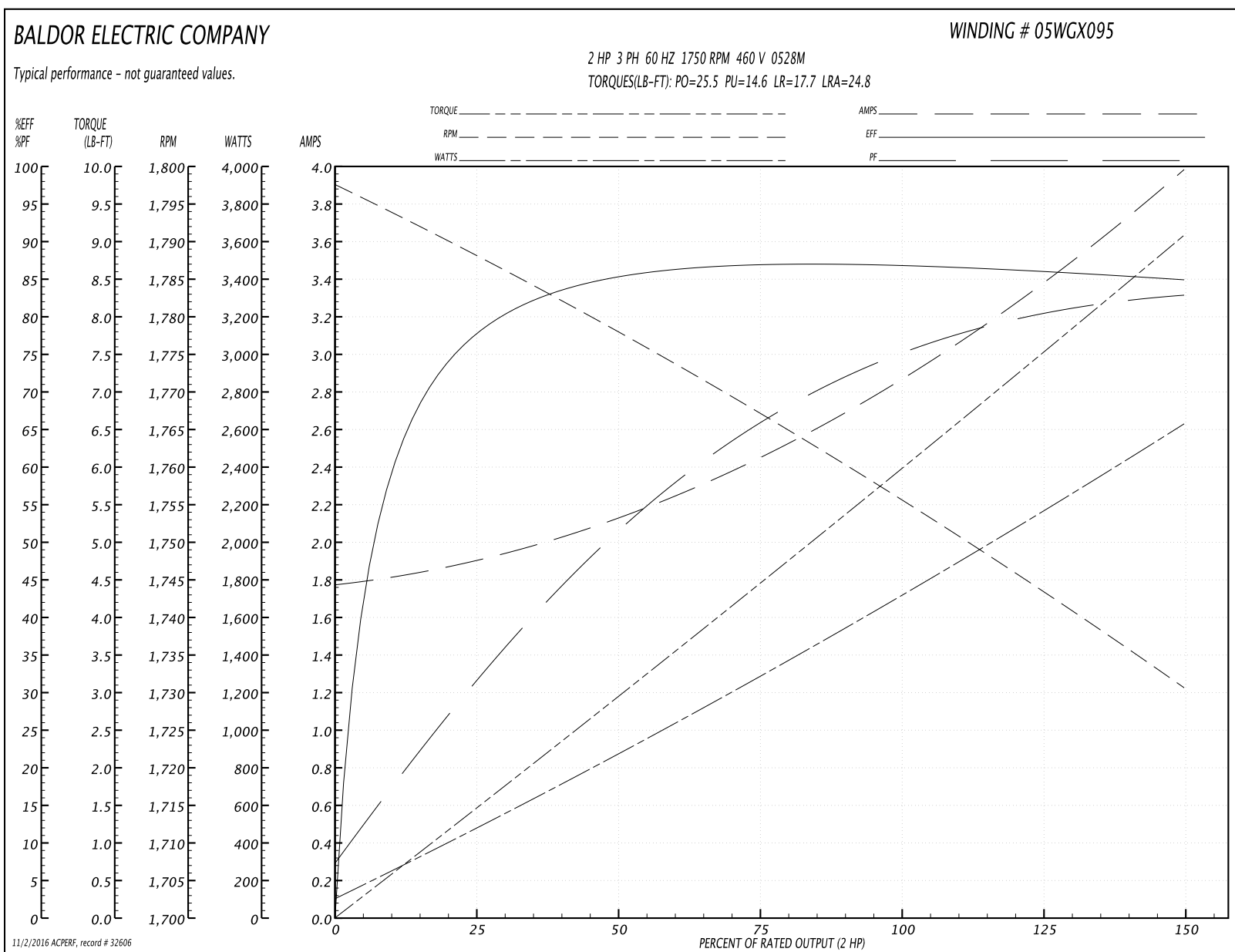
Winding: 05WGX095-R001	Type: 0528M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	2			Full Load Torque	6.01 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	5.8/2.9			Breakdown Torque	25.5 LB-FT
R.P.M.	1750			Pull-up Torque	14.6 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	17.7 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	24.8 A
Service Factor (S.F.)	1.15			No-load Current	1.8 A
NEMA Nom. Eff.	86.5	Power Factor	75	Line-line Res. @ 25°C	8.2285 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	50°C
S.F. Amps				Temp. Rise @ S.F. Load	59°C
				Rotor inertia	0.165 LB-FT ²

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	52	66	75	80	83	78
Efficiency	77.5	85.1	86.9	86.9	86.2	84.8	86.5
Speed	1788	1777	1767	1756	1744	1730	1749
Line amperes	1.87	2.11	2.47	2.9	3.39	3.97	3.19

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



AC Induction Motor Performance Data

Record # 57059 - Typical performance - not guaranteed values

Winding: 05WGX095-RXXX	Type: 0528M	Enclosure: TEFC
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Nameplate Data				480 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	2			Full Load Torque	6 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	5.8/2.9			Breakdown Torque	28.1 LB-FT
R.P.M.	1750			Pull-up Torque	16.4 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	19.9 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	26.4 A
Service Factor (S.F.)	1.15			No-load Current	2.08 A
NEMA Nom. Eff.	86.5	Power Factor	75	Line-line Res. @ 25°C	8.02 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	52°C
S.F. Amps				Temp. Rise @ S.F. Load	61°C
				Rotor inertia	0.165 LB-FT ²

Load Characteristics 480 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	28	46	60	69	76	80	73
Efficiency	74.7	83.7	85.8	86.5	86	85	86.2
Speed	1789	1778	1769	1759	1748	1736	1752
Line amperes	2.13	2.33	2.64	3.01	3.45	3.96	3.27

Performance Graph at 480V, 60Hz, 2.0HP Typical performance - Not guaranteed values

