

BALDOR® • ***RELIANCE***

Product Information Packet

EM7059T-I-5

20HP,3530RPM,3PH,60HZ,256T,0950M,XPFC,F1

Part Detail							
Revision:	L	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	0950M	Elec. Spec:	09WGZ695	CD Diagram:	CD0006
Enclosure:	XPFC	Mfg Plant:		Mech. Spec:	09F369	Layout:	09LYF369
Frame:	256T	Mounting:	F1	Poles:	02	Created Date:	11-20-2013
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	01-13-2017
Leads:	3#10					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP0977XPSLEV											
NO.							CC	010A			
SER.								TEMP CODE	T3C		
SPEC.	09F369Z695G2										
CAT.NO.	EM7059T-I-5										
HP	20 NEMA MG-1 PT.5,IP55										
VOLTS	575										
AMPS	17.5										
RPM	3530						MOTOR WEIGHT	400			
HERTZ	60			PH	3	CL	F	DE BRG	6309		
SER.F.	1.15			DES	A	CODE	H	ODE BRG	6208		
FRAME	256T			GREASE			POLYREX EM				
RATING	40C AMB-CONT										
USABLE AT 208V							NEMA-NOM-EFF	91		PF	91
	55C AMB @ 1.0 SF,60C RISE										

Parts List		
Part Number	Description	Quantity
SA272661	SA 09F369Z695G2	1.000 EA
RA259267	RA 09F369Z695G2	1.000 EA
37FN3002C02	EXFN, PLASTIC, 6.00 OD, 1.500 ID	1.000 EA
MJ5000A01	SEALANT, CHICO A COMPOUND	0.050 LB
09CB1003A01	CONDUIT BOX MACH. GROUP C MTRS	1.000 EA
10XN3118K24	5/16-18 X 1.50" HEX HD, GRADE 5	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
09EP1700A33E	FR ENDPLATE, MACH, XPFC W/E-COAT	1.000 EA
WD1000B25	GND LUG, BURNDY L125HP OR T&B L125HP-BB	1.000 EA
10XN3118K12	5/16-18 X .75 GRADE 5, ZINC PLATED	1.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	1.000 EA
HW3023E06	.125 X .625 SPIRAL SPRING PIN	1.000 EA
10XN3816K28	3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 EA
10XN2520K36	1/4-20 X 2.25" HX HD SCRWGRADE 5, ZINC P	4.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA
09EP1707A16E	PU E.P., MACH. W/E-COAT	1.000 EA
HW3023E06	.125 X .625 SPIRAL SPRING PIN	1.000 EA
10XN3816K28	3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
09FH1004A03	FAN COVER, MACH	1.000 EA
10XN2520K12	1/4-20 X.75 GRD 5	3.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	3.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HA2066A01	SLINGER, ALUM (AUTO)	1.000 EA
80XN1032A07	SET SCREW, HEX XOCK, ZN	1.000 EA
09CB1502A01	CONDUIT BOX LID MACH. GROUP C MTRS	1.000 EA
84XN5013J24	1/2-13 X 1-1/2 HEX SOCKET HD CAP SCREW	6.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT.,.879 OD, .509 I	6.000 EA
HW2501G25	KEY, 3/8 SQ X 2.875	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
LB1081Z	ALUM XP CAUTION LABEL (ZK PLANT ONLY-	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1000/bx) 11/14	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	2.000 EA
HW4505A02	BREATHER/DRAIN-EXP PROOF-.250-18 PTF AIS	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.080 LB
HW4500A20	1/8NPT SL PIPE PLUG	2.000 EA
HW4505A02	BREATHER/DRAIN-EXP PROOF-.250-18 PTF AIS	1.000 EA
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 EA
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 EA
MG1025G05	WILKOFASST, 789.227, MED. GRAY CHAR. MET.	0.050 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	6.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0006	CONNECTION LABEL	1.000 EA
NP0977XPSLEV	SS XP UL CSA-EEV CC CL-I GP-C&D	1.000 EA
40PA1005	PACKAGING GROUP, 09 STD	1.000 EA

AC Induction Motor Performance Data

Record # 53262 - Typical performance - not guaranteed values

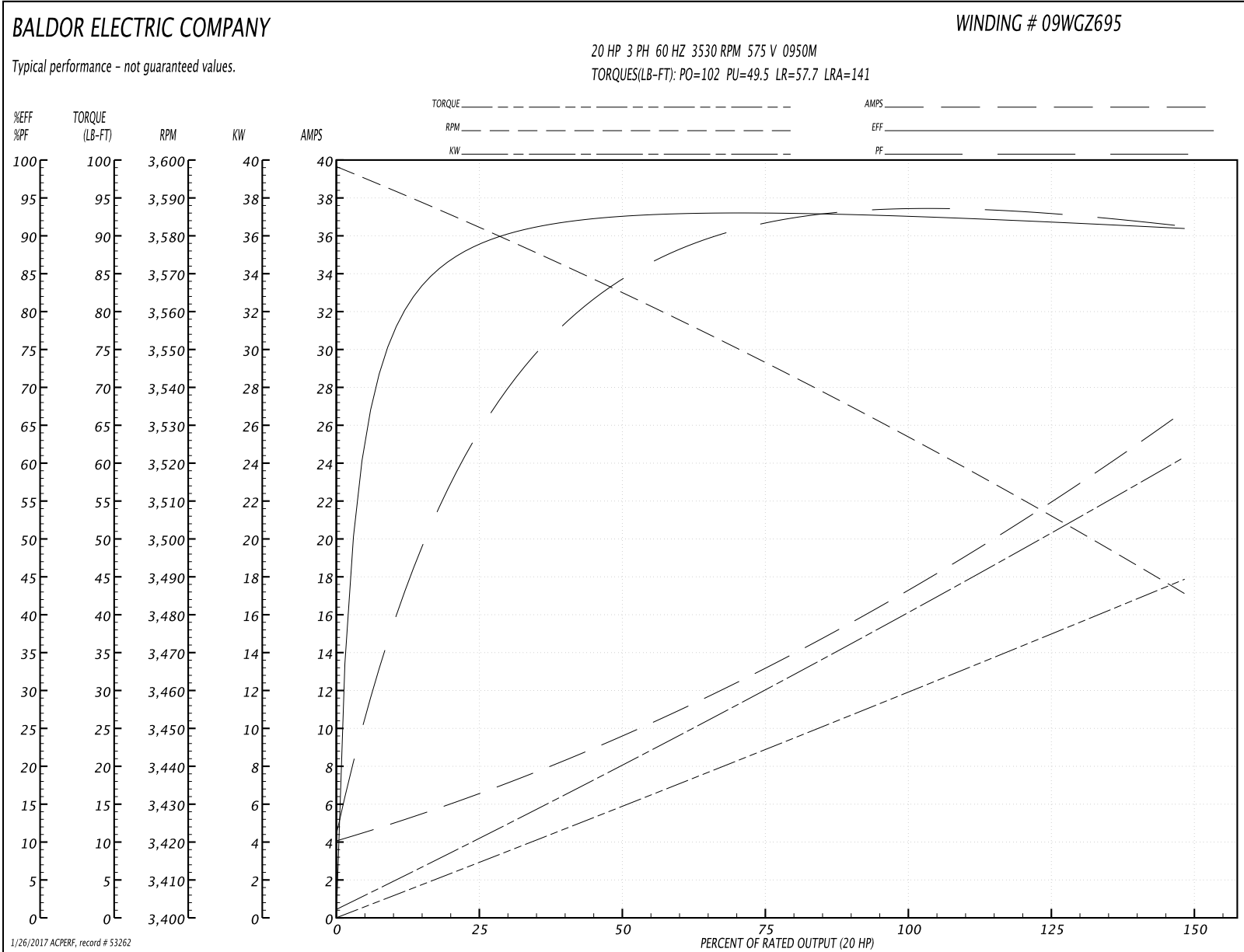
Winding: 09WGZ695-R006	Type: 0950M	Enclosure: XPFC
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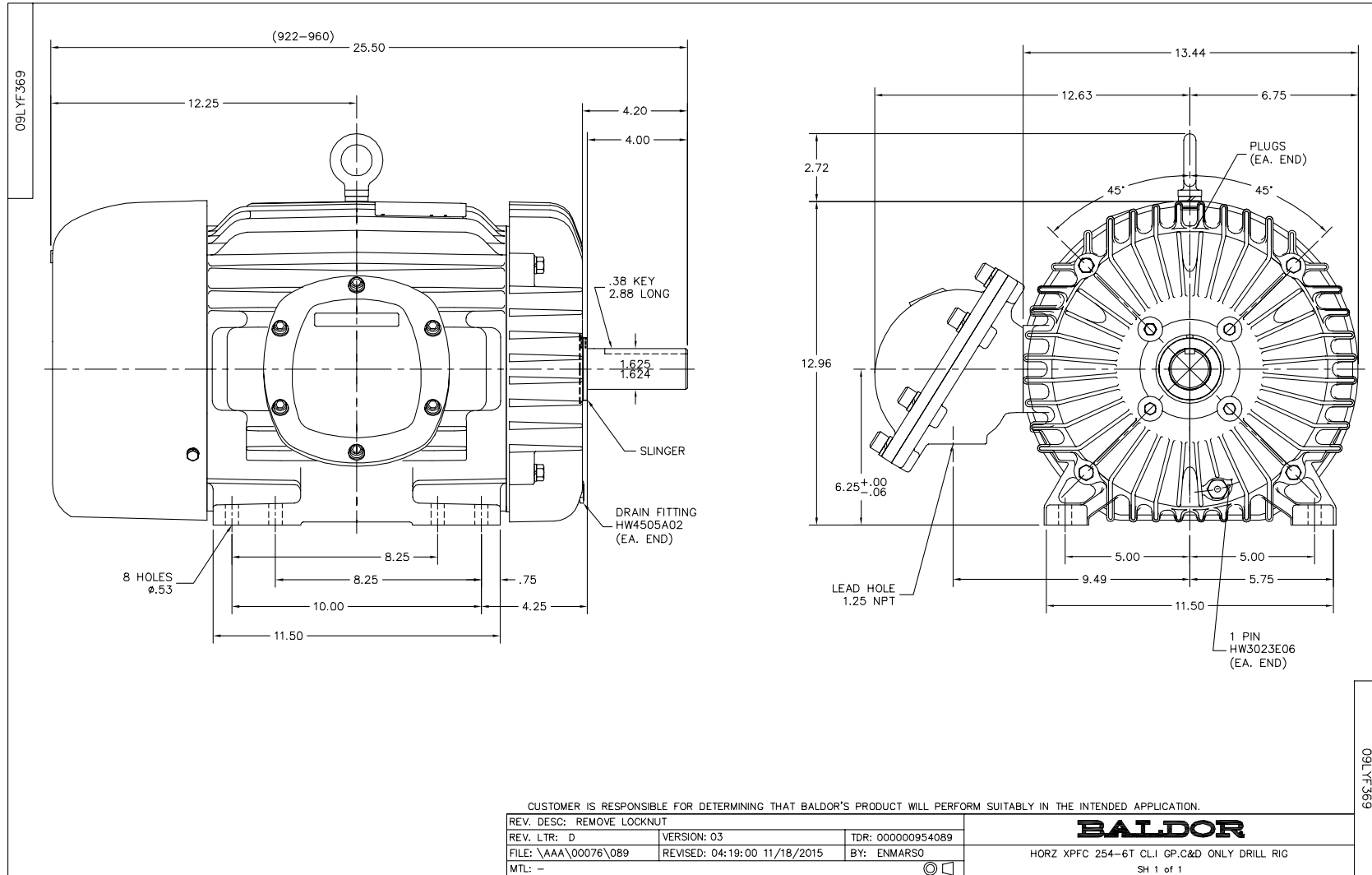
Nameplate Data				575 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	20			Full Load Torque	29.8 LB-FT
Volts	575			Start Configuration	direct on line
Full Load Amps	17.5			Breakdown Torque	102 LB-FT
R.P.M.	3530			Pull-up Torque	49.5 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	57.7 LB-FT
NEMA Design Code	A	KVA Code	H	Starting Current	141 A
Service Factor (S.F.)	1.15			No-load Current	4.34 A
NEMA Nom. Eff.	91	Power Factor	91	Line-line Res. @ 25°C	0.647 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	53°C
S.F. Amps				Temp. Rise @ S.F. Load	66°C
				Locked-rotor Power Factor	28
				Rotor inertia	1.28 LB-FT ²

Load Characteristics 575 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	69	86	91	92	92	92	92
Efficiency	88.9	92.3	93.2	92.6	91.9	90.9	92.2
Speed	3581	3564	3546	3528	3507	3485	3515
Line amperes	6.24	9.52	13.4	17.5	21.9	26.6	20.1

Performance Graph at 575V, 60Hz, 20.0HP Typical performance - Not guaranteed values





CD0006



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: D	BY: JLP	REVISED: 01/21/99 4:02	TDR: 0171435
9000D		FILE: AAA00005141	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

CD0006