

BALDOR® • RELIANCE

Product Information Packet

EM7059T-I

15//20HP,2930//3530RPM,3PH,50//60HZ,256T

Part Detail							
Revision:	K	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	0950M	Elec. Spec:	09WGZ651	CD Diagram:	CD0180
Enclosure:	XPFC	Mfg Plant:		Mech. Spec:	09F369	Layout:	09LYF369
Frame:	256T	Mounting:	F1	Poles:	02	Created Date:	09-09-2010
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	07-30-2014
Leads:	9#10					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP0977XPSL								
NO.		CC	010A					
SER.		TEMP CODE	T3C					
SPEC.	09F369Z651G1							
CAT.NO.	EM7059T-I							
HP	20//15							
VOLTS	230/460//190/380							
AMPS	44/22//40/20							
RPM	3530//2930	MOTOR WEIGHT	393					
HERTZ	60//50	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	48	NEMA-NOM-EFF	91	PF	91			
	55C AMB @ 1.0 SF 60C RISE							

Parts List		
Part Number	Description	Quantity
SA202909	SA 09F369Z651G1	1.000 EA
RA190172	RA 09F369Z651G1	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
WD1000B25	BURNDY TERMINAL L125HP	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
09EP1700A33P	FR ENDPLATE, MACH, XPFC W/DRN HW4505A02	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
09EP1707A16P	PU E.P., MACH. W/DRAIN HW4505A02 W/PRIME	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
LB1081	ALUM XP CAUTION LABEL	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	2.000 EA
HW4505A02	BREATHER/DRAIN-EXP PROOF-.250-18 PTF AIS	1.000 EA
MJ1000A75	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	MEDIUM CHARCOAL METALLIC GREY	0.050 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	6.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 10/13	1.000 EA
LB1119N	WARNING LABEL	1.000 EA
LB1125C02	SUPER-E (STOCK CTN LABEL SUPER-E WITH FL	4.000 EA
LC0181	CONNECTION LABEL	1.000 EA
NP0977XPSL	SS XP UL CSA CC CL-I GP-C&D	1.000 EA
40PA1005	PACKAGING GROUP, 09 STD	1.000 EA

AC Induction Motor Performance Data

Record # 32298 - Typical performance - not guaranteed values

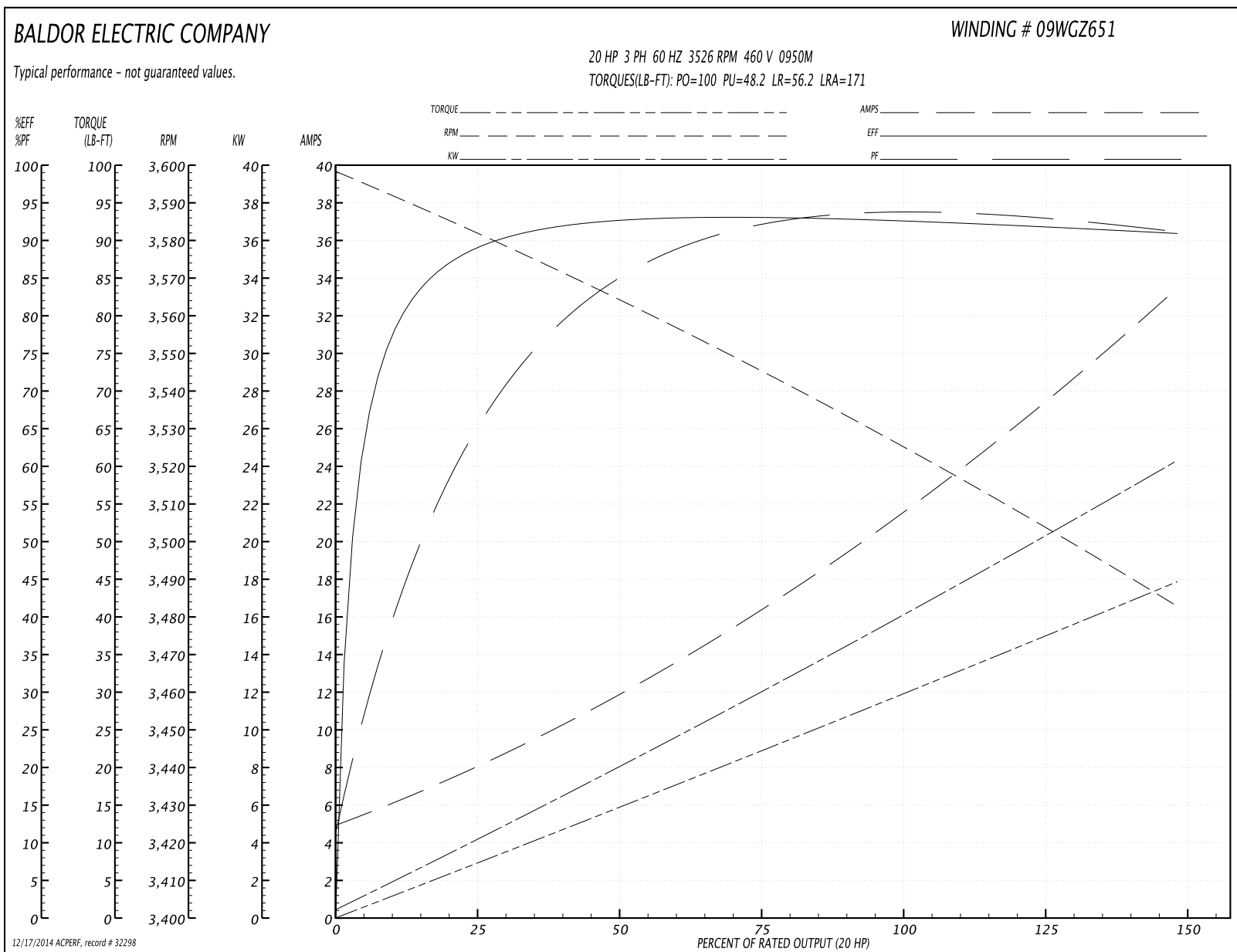
Winding: 09WGZ651-R001	Type: 0950M	Enclosure: TEFC
-------------------------------	--------------------	------------------------

Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	15//20			Full Load Torque	29.8 LB-FT
Volts	190/380//230/460			Start Configuration	direct on line
Full Load Amps	40/20//44/22			Breakdown Torque	100 LB-FT
R.P.M.	2930//3530			Pull-up Torque	48.2 LB-FT
Hz	50//60	Phase	3	Locked-rotor Torque	56.2 LB-FT
NEMA Design Code	A	KVA Code	H	Starting Current	171 A
Service Factor (S.F.)	1.15			No-load Current	5.26 A
NEMA Nom. Eff.	91	Power Factor	91	Line-line Res. @ 25°C	0.41 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	53°C
S.F. Amps				Temp. Rise @ S.F. Load	67°C
				Rotor inertia	1.28 LF ²

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	70	87	91	93	93	92	93
Efficiency	89	92.5	93	92.3	91.9	90.8	92.2
Speed	3581	3563	3545	3526	3505	3482	3513
Line amperes	7.67	11.8	16.6	21.8	27.4	33.3	25.2

Performance Graph at 460V, 60Hz, 20.0HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 32299 - Typical performance - not guaranteed values

Winding: 09WGZ651-R001	Type: 0950M	Enclosure: TEFC
-------------------------------	--------------------	------------------------

Nameplate Data				380 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	15//20			Full Load Torque	26.9 LB-FT
Volts	190/380//230/460			Start Configuration	direct on line
Full Load Amps	40/20//44/22			Breakdown Torque	96.3 LB-FT
R.P.M.	2930//3530			Pull-up Torque	51 LB-FT
Hz	50//60	Phase	3	Locked-rotor Torque	59.4 LB-FT
NEMA Design Code	A	KVA Code	H	Starting Current	167 A
Service Factor (S.F.)	1.15			No-load Current	5.2 A
NEMA Nom. Eff.	91	Power Factor	91	Line-line Res. @ 25°C	0.41 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	46°C
S.F. Amps				Temp. Rise @ S.F. Load	58°C
				Rotor inertia	1.28 LF ²

Load Characteristics 380 V, 50 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	67	85	91	92	93	92	93
Efficiency	89.2	92.8	92.8	92.6	91.6	90.5	92
Speed	2983	2967	2950	2933	2915	2894	2922
Line amperes	7.24	10.9	15.2	19.9	24.9	30.3	22.9

Performance Graph at 380V, 50Hz, 15.0HP Typical performance - Not guaranteed values

