

BALDOR® • RELIANCE

Product Information Packet

EM7083T-I

30//25HP,3520//2920RPM,3PH,60//50HZ,286T

Part Detail							
Revision:	Q	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	1046M	Elec. Spec:	10WGZ035	CD Diagram:	CD0180
Enclosure:	XPFC	Mfg Plant:		Mech. Spec:	10F284	Layout:	10LYF284
Frame:	286TS	Mounting:	F1	Poles:	02	Created Date:	06-04-2012
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	01-04-2017
Leads:	9#10					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP0977XPSLEV

NO.				CC	010A	
SER.				TEMP CODE	T3C	
SPEC.	10F284Z035G1					
CAT.NO.	EM7083T-I					
HP	30//25 NEMA MG-1 PT.5,IP55					
VOLTS	230/460//190/380					
AMPS	66/33//68/34					
RPM	3520//2920			MOTOR WEIGHT	495	
HERTZ	60//50	PH	3	CL	F	
SER.F.	1.15	DES	B	CODE	G	
FRAME	286TS	GREASE	POLYREX EM			
RATING	40C AMB-CONT			DE BRG	6311	
USABLE AT 208V	72	ODE BRG	6309			
	55C AMB @ 1.0 SF 60C RISE			NEMA-NOM-EFF	91.7	
				PF	90	

Parts List		
Part Number	Description	Quantity
SA245986	SA 10F284Z035G1	1.000 EA
RA232873	RA 10F284Z035G1	1.000 EA
37FN3002B03	EXFN, PLASTIC, 7.50 OD, 1.690 ID	1.000 EA
12CB1003A02	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
WD1000B19	TERMINAL BURNDY L250HP	1.000 EA
10XN3816K12	3/8-16 X 3/4 HEX HD CAP GRADE 5	1.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	1.000 EA
10EP1701A25P	FR ENDPLATE, MACH W/PRIMER	1.000 EA
HW3023E06	.125 X .625 SPIRAL SPRING PIN	1.000 EA
HA3050A03	3/8-16 X 2.25" GRADE 8 BOLT	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
HW5100A11	W3917-042 WVY WSHR (WB)	1.000 EA
10XN2520K40	1/4-20 X 2-1/2 HEX HD CAPSCREW, GRADE 5,Z	4.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA
10EP1709A12P	PUEP, XP (CL.I,GP.D ONLY) AL SLNGR, HW45	1.000 EA
HW3023E06	.125 X .625 SPIRAL SPRING PIN	1.000 EA
HA3050A03	3/8-16 X 2.25" GRADE 8 BOLT	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
HA2067A01	ALUM SLINGER (AUTO)	1.000 EA
80XN1032A06	10-32 X 3/8 SET SC HEX SOCK	2.000 EA
10FH1008A01	310 FAN HOUSING X-PROOF MACH.	1.000 EA
10XN3118K12	5/16-18 X .75 GRADE 5, ZINC PLATED	3.000 EA

Parts List (continued)		
Part Number	Description	Quantity
12CB1502A01	CONDUIT BOX LID MACH. GROUP C MTRS	1.000 EA
84XN5013J32	SOCKET HD.CAP SCR,1/2-13 X 2"LG,ALLOY ST	10.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT.,.879 OD, .509 I	10.000 EA
HW2501G17	KEY, 3/8 SQ X 1.875	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
WD4100A03	DE-750 HEYCO PLUG 62MP0750 MICRO PLASTIC	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)	0.130 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	WILKOFAS, 789.227, MED. GRAY CHAR. MET.	0.125 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	6.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0181	CONNECTION LABEL	1.000 EA
NP0977XPSLEV	SS XP UL CSA-EEV CC CL-I GP-C&D	1.000 EA
14PA1000	PACKAGING 314 GROUP COMBINED PRINT	1.000 EA

AC Induction Motor Performance Data

Record # 53267 - Typical performance - not guaranteed values

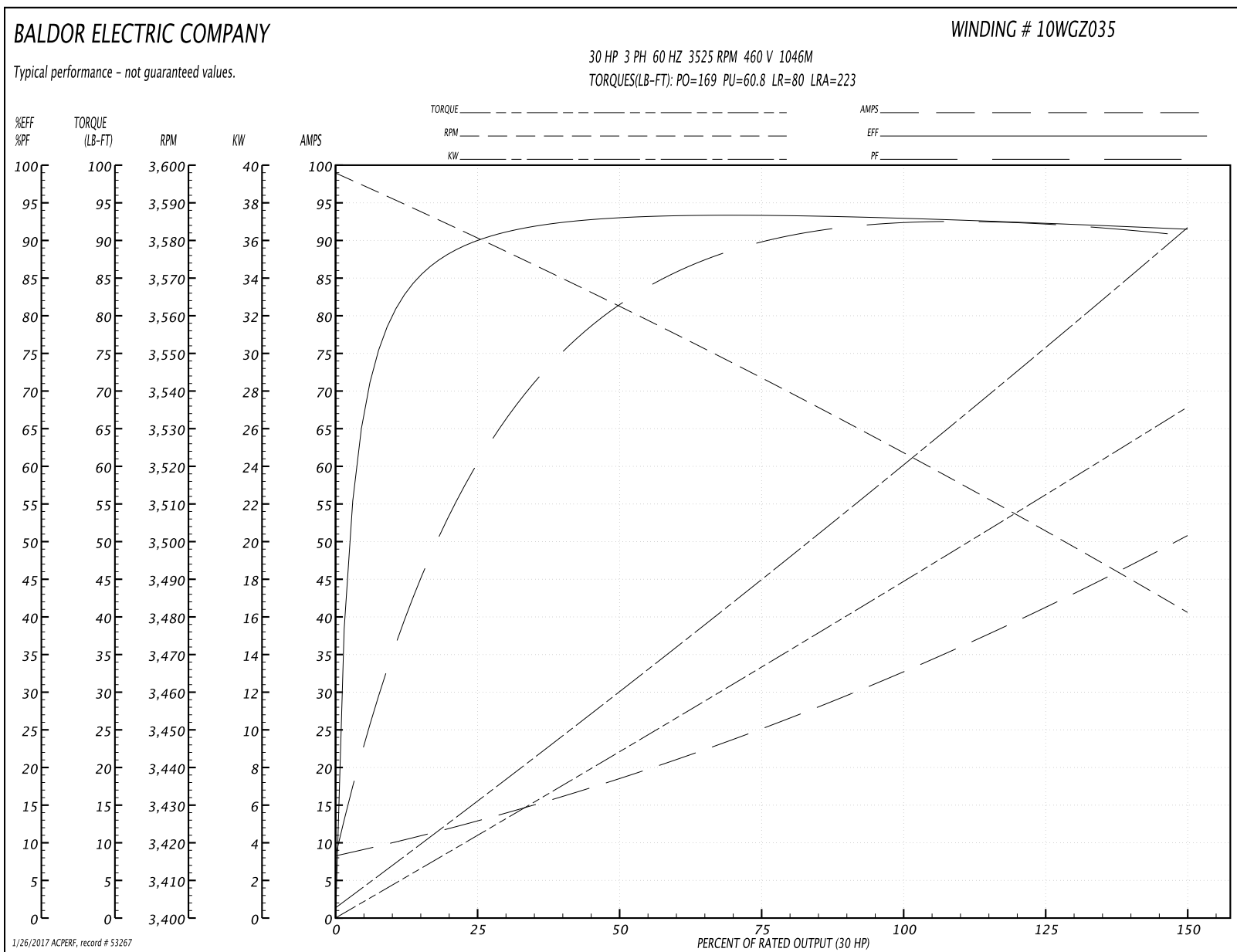
Winding: 10WGZ035-R003	Type: 1046M	Enclosure: XPFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	30//25			Full Load Torque	44.4 LB-FT
Volts	230/460//190/380			Start Configuration	direct on line
Full Load Amps	66/33//68/34			Breakdown Torque	169 LB-FT
R.P.M.	3520//2920			Pull-up Torque	60.8 LB-FT
Hz	60//50	Phase	3	Locked-rotor Torque	80 LB-FT
NEMA Design Code	B	KVA Code	G	Starting Current	223 A
Service Factor (S.F.)	1.15			No-load Current	8.85 A
NEMA Nom. Eff.	91.7	Power Factor	90	Line-line Res. @ 25°C	0.217 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	58°C
S.F. Amps				Temp. Rise @ S.F. Load	72°C
				Locked-rotor Power Factor	24
				Rotor inertia	1.97 LB-FT ²

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	64	83	89	91	92	91	92
Efficiency	89.7	92.9	93.6	92.8	92.5	91.5	92.6
Speed	3580	3561	3544	3525	3504	3480	3512
Line amperes	12	18.3	25.2	33	41.5	50.5	38.1

Performance Graph at 460V, 60Hz, 30.0HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 53268 - Typical performance - not guaranteed values

Winding: 10WGZ035-R003	Type: 1046M	Enclosure: XPFC
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Nameplate Data				380 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	30//25			Full Load Torque	44.7 LB-FT
Volts	230/460//190/380			Start Configuration	direct on line
Full Load Amps	66/33//68/34			Breakdown Torque	164 LB-FT
R.P.M.	3520//2920			Pull-up Torque	64.7 LB-FT
Hz	60//50	Phase	3	Locked-rotor Torque	85.2 LB-FT
NEMA Design Code	B	KVA Code	G	Starting Current	219 A
Service Factor (S.F.)	1.15			No-load Current	8.74 A
NEMA Nom. Eff.	91.7	Power Factor	90	Line-line Res. @ 25°C	0.217 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	59°C
S.F. Amps				Temp. Rise @ S.F. Load	74°C
				Locked-rotor Power Factor	27
				Rotor inertia	1.97 LB-FT ²

Load Characteristics 380 V, 50 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	65	84	89	91	92	91	92
Efficiency	88.5	92.3	92.8	92	91.4	90.2	91.6
Speed	2981	2963	2946	2927	2906	2883	2914
Line amperes	12	18.5	25.5	33.6	42.3	51.7	38.8

Performance Graph at 380V, 50Hz, 25.0HP Typical performance - Not guaranteed values

