

BALDOR® • RELIANCE

Product Information Packet

EM7083T

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

Part Detail							
Revision:	P	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	1042M	Elec. Spec:	10WGY805	CD Diagram:	CD0180
Enclosure:	XPFC	Mfg Plant:		Mech. Spec:	10E128	Layout:	10LYE128
Frame:	286TS	Mounting:	F1	Poles:	02	Created Date:	08-25-2010
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	01-05-2017
Leads:	9#10					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1426XPSLEV

NO.		CC	010A
SER.			
SPEC.	10E128Y805G1		
CAT.NO.	EM7083T		
HP	30//25	T. CODE	T3C
VOLTS	230/460//190/380		
AMPS	66/33//68/34		
RPM	3520//2920		
HZ	60//50	PH	3
SER.F.	1.00	DES	B
RATING	40C AMB-CONT	CL	F
FRAME	286TS	CODE	F
USABLE AT 208V		NEMA-NOM-EFF	91.7
BLANK		PF	90

Parts List		
Part Number	Description	Quantity
SA202061	SA 10E128Y805G1	1.000 EA
RA189347	RA 10E128Y805G1	1.000 EA
37FN3002C03	EXFN, PLASTIC, 6.00 OD, 1.690 ID	1.000 EA
12CB1001A01	K.O.BOX, MACH X-PROOF, 1.50 NPT HOLE	1.000 EA
10XN3118K16	5/16-18 X 1' GRADE #5, STL, ZINC PLATE	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
WD1000B16	T&B CX70TN TERMINAL	1.000 EA
10XN2520K06	1/4-20 X 3/8" HX HD SCREWGRADE 5, ZINC P	1.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	1.000 EA
10EP1701A01	FR ENDPLATE, MACH	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
10EP1709A08	PU ENDPLATE, X-PROOF W/LABYRINTH SHAFT G	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
10FH1008A01	310 FAN HOUSING X-PROOF MACH.	1.000 EA
10XN3118K12	5/16-18 X .75 GRADE 5, ZINC PLATED	3.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	3.000 EA
12CB1501A01	COND.BOX LID, MACH., X-PROOF, 310,312	1.000 EA
10XN3816K20	3/8-16 X 1.25 HEX HD CAP GRADE 5	6.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	6.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HW2501G17	KEY, 3/8 SQ X 1.875	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
LB1073	ALUM XP CAUTION LABEL	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1000/bx) 11/14	1.000 EA
WD4100A03	DE-750 HEYCO PLUG 62MP0750 MICRO PLASTIC	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	2.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.130 LB
HW4500A20	1/8NPT SL PIPE PLUG	2.000 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.	0.125 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	6.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0181	CONNECTION LABEL	1.000 EA
NP1426XPSLEV	SS XP UL CSA-EEV CC CL-I GP-D	1.000 EA
12PA1000	PACKAGING GROUP PRINT PK1024A06	1.000 EA

AC Induction Motor Performance Data

Record # 32207 - Typical performance - not guaranteed values

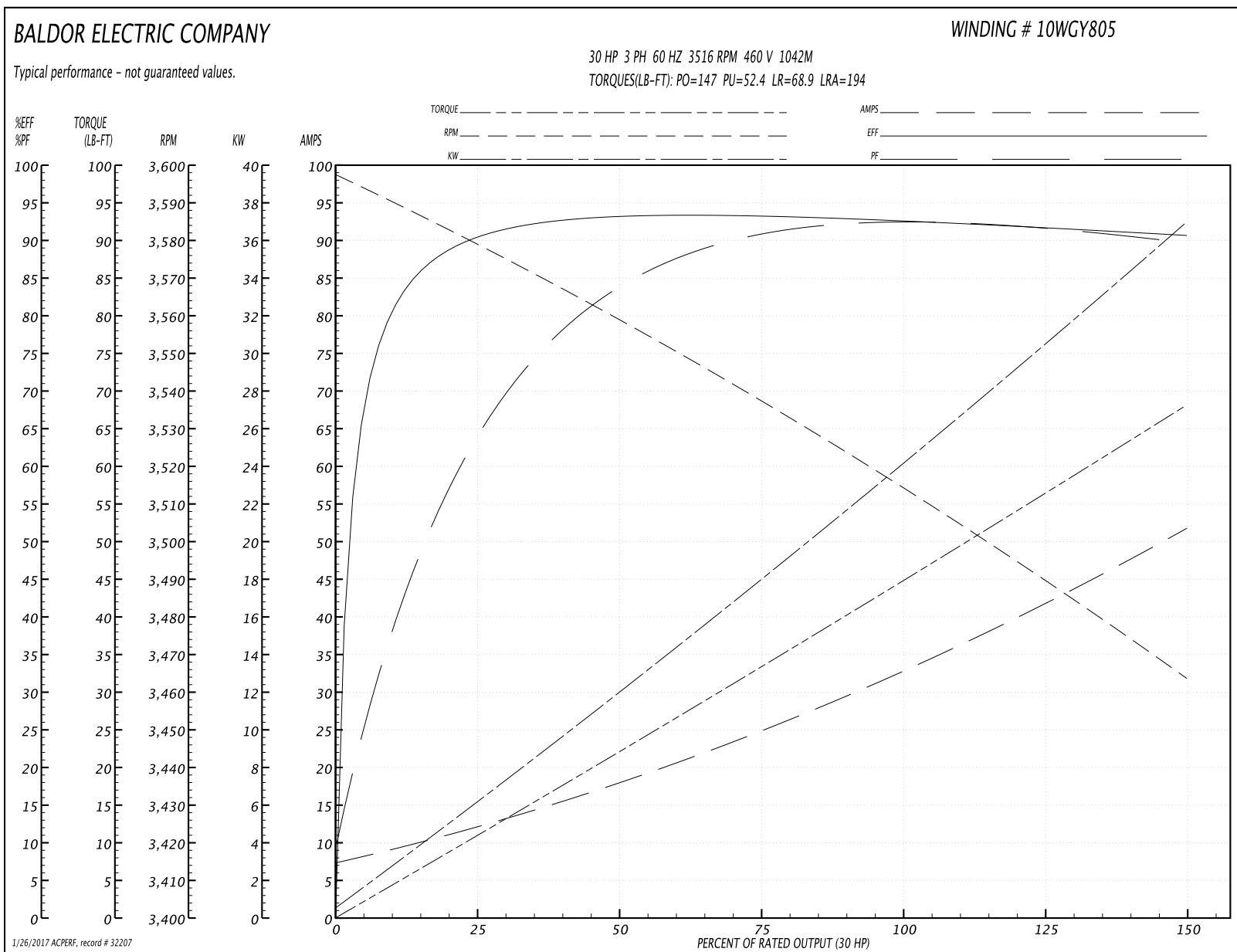
Winding: 10WGY805-R001	Type: 1042M	Enclosure: XPFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	30//25			Full Load Torque	44.6 LB-FT
Volts	230/460//190/380			Start Configuration	direct on line
Full Load Amps	66/33//68/34			Breakdown Torque	147 LB-FT
R.P.M.	3520//2920			Pull-up Torque	52.4 LB-FT
Hz	60//50	Phase	3	Locked-rotor Torque	68.9 LB-FT
NEMA Design Code	B	KVA Code	F	Starting Current	194 A
Service Factor (S.F.)	1			No-load Current	7.88 A
NEMA Nom. Eff.	91.7	Power Factor	90	Line-line Res. @ 25°C	0.258 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	63°C
				Locked-rotor Power Factor	24
				Rotor inertia	1.8 LB-FT ²

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	68	85	90	91	91	90
Efficiency	90	92.9	93.3	92.3	92	90.5
Speed	3578	3557	3538	3516	3491	3462
Line amperes	11.2	17.8	25	33.1	41.9	51.6

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



AC Induction Motor Performance Data

Record # 32208 - Typical performance - not guaranteed values

Winding: 10WGY805-R001	Type: 1042M	Enclosure: XPFC
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Nameplate Data				380 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	30//25			Full Load Torque	44.8 LB-FT
Volts	230/460//190/380			Start Configuration	direct on line
Full Load Amps	66/33//68/34			Breakdown Torque	143 LB-FT
R.P.M.	3520//2920			Pull-up Torque	55.9 LB-FT
Hz	60//50	Phase	3	Locked-rotor Torque	73.5 LB-FT
NEMA Design Code	B	KVA Code	F	Starting Current	190 A
Service Factor (S.F.)	1			No-load Current	7.76 A
NEMA Nom. Eff.	91.7	Power Factor	90	Line-line Res. @ 25°C	0.258 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	65°C
				Locked-rotor Power Factor	27
				Rotor inertia	1.8 LB-FT ²

Load Characteristics 380 V, 50 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	69	86	90	91	91	90
Efficiency	91.3	93.3	93.3	92.1	91.2	89.5
Speed	2979	2959	2940	2918	2893	2864
Line amperes	11.1	17.8	25.2	33.5	42.6	52.8

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

