

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **IDXM7147T**

**7.5HP,1770RPM,3PH,60HZ,213TC,0735M,XPFC**

Part Detail							
Revision:	N	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	0738M	Elec. Spec:	07WGX790	CD Diagram:	CD0005
Enclosure:	XPFC	Mfg Plant:		Mech. Spec:	07H517	Layout:	07LYH517
Frame:	213TC	Mounting:	F1	Poles:	04	Created Date:	03-10-2006
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	04-21-2016
Leads:	9#14					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP0890XPSLEV									
NO.					CC	010A			
S/N					TEMP CODE	T2B			
SPEC.	07H517X790G1				INV. TYPE	PWM			
CAT.NO.	IDX7147T				C HP FR	60		C HP TO	90
HP	7.5				CT HZ FROM	30		CT HZ TO	60
VOLTS	230/460				VT HZ FROM	6		VT HZ TO	60
AMPS	19/9.5				MAG CUR	8.6/4.3			
RPM	1770				MX RPM	2700			
HZ	60	PH	3	CL	F	NOM.EFF.	91.7		
SER.F.	1.00		DES	A	SL HZ	1	WK2	0.934	
FRAME	213TC		RATING	40C AMB-CONT					
	75C RISE								

Parts List		
Part Number	Description	Quantity
SA140071	SA 07H517X790G1	1.000 EA
RA129509	RA 07H517X790G1	1.000 EA
37FN3002C01	EXFN, PLASTIC, 6.00 OD, 1.155 ID	1.000 EA
HA3210E08	.250X 7/8 PIN 312-57	1.000 EA
HW3201A05	3/8-16 EYEBOLT	1.000 EA
07CB1000A01	CONDUIT BOX MACH	1.000 EA
10XN3118A16	5/16-18X1 HEX HD CAP	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT .591 OD, .319 I	4.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
WD1000B17	T&B CX35TN TERMINAL	1.000 EA
07EP1707A01	STD FRONT ENDPLATE EXPLOSION PROOF	1.000 EA
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	2.000 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
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 EA
07EP1708A01	STANDARD FACE MOUNTED ENDPLATE EXPLOSEIO	1.000 EA
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	2.000 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
10XN2520A32	1/4 X 2 HEX HEAD CAP SCR, GRADE 2	4.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA
07FH1003A01	STANDARD 307 EXPLOSION PROOF FAN HOUSING	1.000 EA
10XN2520A12	O1/4-20X 3/4 HEX HEAD CAP	4.000 EA
07CB1502A01	CONDUIT BOX LID MACH (DUCTILE IRON)	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
10XN2520A16	1/4-20 X 1 HEX HEAD CAP SCR, ZINC PLATED	4.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA
HW2501F21	KEY, 5/16 SQ X 2.375	1.000 EA
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 EA
LB1081F	ALUM XP CAUTION LABEL (FS PLANT ONLY-	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 EA
MG1025G29	WILKOFASST, 789.229, DARK CHARCOAL GRAY	0.036 GA
LB1119N	WARNING LABEL	1.000 EA
LC0145B01	CONNECTION LABEL	1.000 EA
NP0890XPSLEV	SS XP INV UL CSA-EEV CC CL-I GP-D	1.000 EA
07PA1011	PKG GRP, 07 CAST IRON PK1181	1.000 EA
10XL3808A28	3/8 X 1 3/4" LAG SCREW	2.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 11/14	1.000 EA

AC Induction Motor Performance Data

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**AC Induction Motor Performance Data**

Record # 34350

Typical performance - not guaranteed values

<b>Winding:</b> 07WG X790	<b>Type:</b> 0735M	<b>Enclosure:</b> XPFC
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Nameplate Data			General Characteristics at 460 V, 60 Hz: High Volt Connection		
Rated Output (HP)	7.5		Full Load Torque	22.1 LB-FT	
Volts	230/460		Start Configuration	DOL	
Full Load Amps	19/9.5		Break Down Torque	69.8 LB-FT	
R.P.M.	1770		Pull-Up Torque	34.3 LB-FT	
Hz	60	Phase	Locked-rotor Torque	42.2 LB-FT	
NEMA Design Code	A	KVA Code	Starting Current	68 Amps	
Service Factor	1		No-load Current	4.18 Amps	
NEMA Nom. Eff.	91.7	P.F.	Line-line Res. @ 25°C.	1.43 Ohms	
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	42°C	
S.F. Amps			Temp. Rise @ S.F. Load		

Load Characteristics at 460 Volts, 60 Hz, 7.5 HP

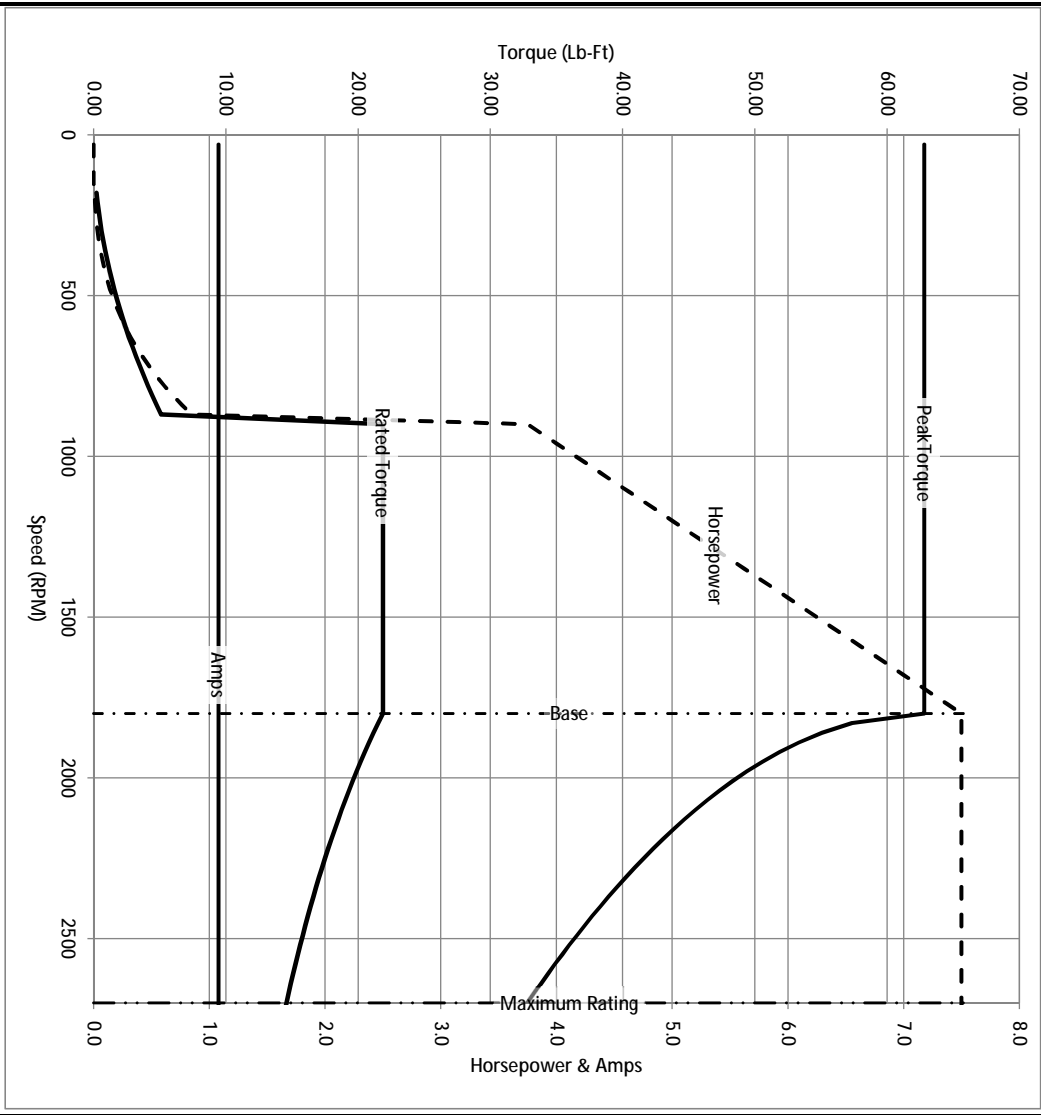
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	43	65	76	81	83	84	
Efficiency	87.4	91.6	92.3	92	91.2	90.1	
Speed	1792	1784	1777	1769	1760	1750	
Line Amperes	4.68	5.93	7.53	9.44	11.6	13.9	

Baldor Electric Company Fort Smith, Arkansas

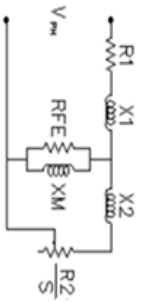


2/27/2013

Catalog	IDXM7147T	NIP VOLTS	230/460	ENCLOSURE	XPFC	WYE CONN EQ OKT OHMS PER PHASE (BASE RATING, 200°)			
FRAME	213TC	NIP AMPS	19/9.5	Base Volts	460	R1	0.700	X1	2.575
HP	7.5 HP	DUTY	Cont	Base AMPS	9.44	R2	0.423	X2	1.927
BASE SPEED	1800	MAX SAFE RPM	2700	Slip Hz	1.03			XMI	56.026
PHASE/HZ	3/60	AMB <sup>6</sup> /C/INSUL	40/F	WK <sup>2</sup> (lb-ft <sup>2</sup> )	0.861				



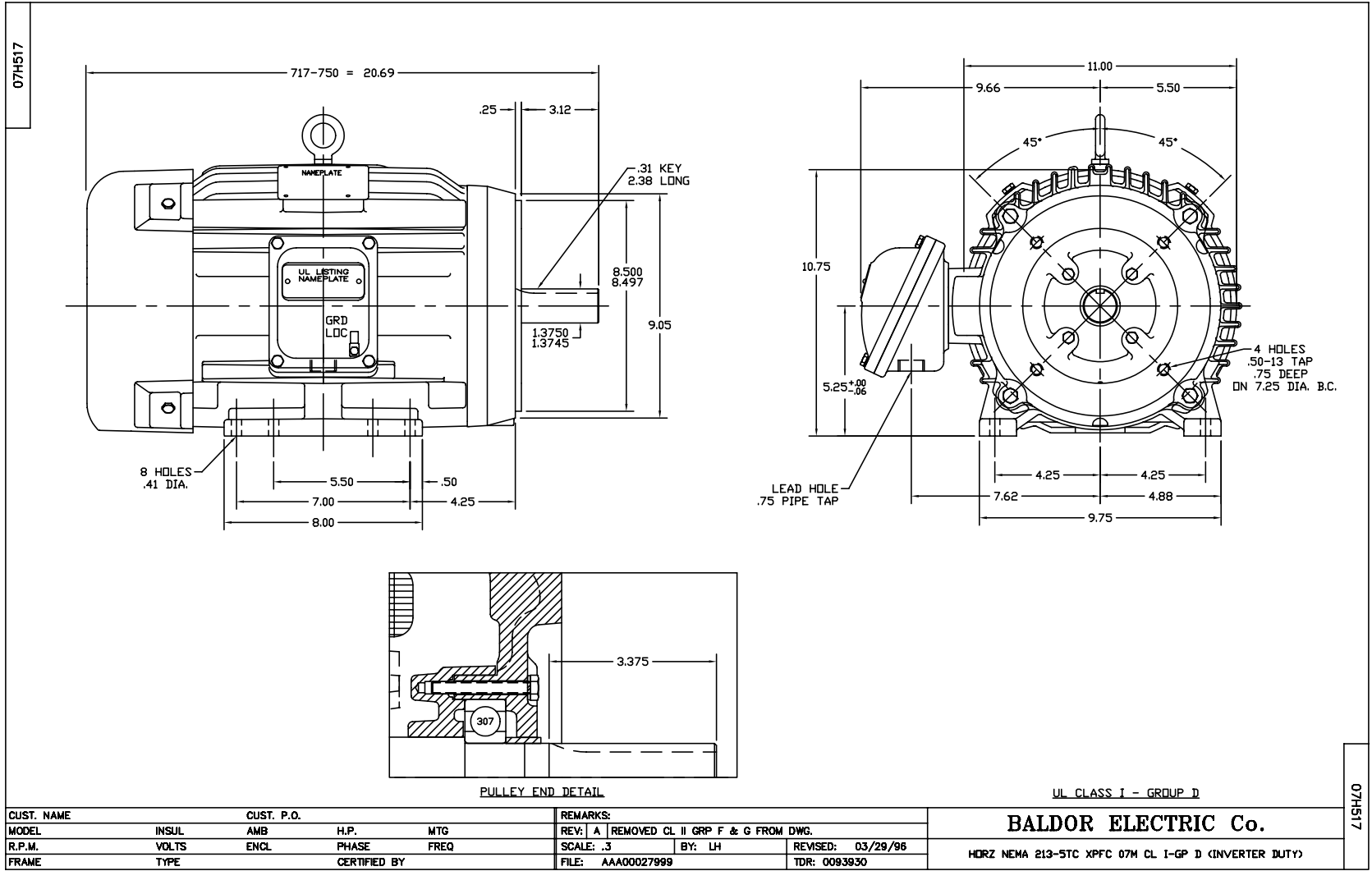
Remarks: Calculated Data



**BALDOR** DR BY ENR  
 CK BY  
 APP BY ENR  
 DATE 2/27/2013

**07HS17XY90G1**  
 A-C MOTOR  
 PERFORMANCE CURVES  
 ISSUE DATE 2/27/2013

A MEMBER OF THE ABB GROUP



CD0005

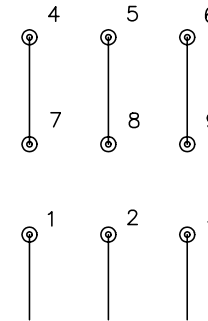


LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: E BY: JLP

REVISED: 01/19/99 10:15

TDR: 0171435

9000D

FILE: AAA00005140

MDL: -

MTL: -

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS

CD0005