

BALDOR® • RELIANCE 

Product Information Packet

ECP3771T

10HP,3500RPM,3PH,60HZ,215T,0742M,TEFC,F1

Part Detail							
Revision:	V	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	07WGY012	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	07K374	Layout:	07LYK374	Poles:	02	Created Date:	11-29-2011
Base:	RG	Eff. Date:	01-05-2022	Leads:	9#14		

Specs			
Catalog Number:	ECP3771T	Front Shaft Indicator:	None
Enclosure:	TEFC	Heater Indicator:	No Heater
Frame:	215T	Insulation Class:	F
Frame Material:	Iron	Inverter Code:	Inverter Duty
Output @ Frequency:	10.000 HP @ 60 HZ	KVA Code:	H
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Lifting Lugs:	Standard Lifting Lugs
Voltage @ Frequency:	460.0 V @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
	230.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 14 AWG
XP Class and Group:	CLI GP A,B,C,D	Motor Lead Exit:	Ko Box
XP Division:	Division II	Motor Lead Termination:	Flying Leads
Agency Approvals:	CCSA US	Motor Type:	0742M
	CSA	Mounting Arrangement:	F1
	CSA EEV	Power Factor:	90
	UR	Product Family:	Chemical Processing (Not DC)
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	Standard
Base Indicator:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None

Blower:	None	Shaft Extension Location:	Pulley End
Constant Torque Speed Range:	6	Shaft Ground Indicator:	No Shaft Grounding
Current @ Voltage:	24.500 A @ 208.0 V	Shaft Rotation:	Reversible
	22.000 A @ 230.0 V	Shaft Slinger Indicator:	Shaft Slinger
	11.000 A @ 460.0 V	Speed Code:	Single Speed
Design Code:	B	Motor Standards:	NEMA
Drip Cover:	No Drip Cover	Starting Method:	Direct on line
Duty Rating:	CONT	Thermal Device - Bearing:	None
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Winding:	None
Enclosure Modification:	Severe Duty Features	Vibration Sensor Indicator:	No Vibration Sensor
Feedback Device:	NO FEEDBACK	Winding Thermal 1:	None
Front Face Code:	Standard	Winding Thermal 2:	None
		XP Temp Code:	T3C

Nameplate NP3257E			
CAT.NO.	ECP3771T		
SPEC.	07K374Y012G1		
HP	10	TE	
VOLTS	230/460		
AMP	22/11		
RPM	3500		
FRAME	215T	HZ	60
SER.F.	1.15	CODE	H DES B
RATING	40C AMB-CONT		
SN			
DE	6307	ODE	6307
NEMA-NOM-EFF	92.4	PF	90
G.MIN.EFF	91.0	CC	010A
T. CODE	T3C	T=	160
		PH	3
		CL	F

Nameplate NP3260E			
SPEC.	07K374Y012G1		
D.E. BRG.	35BC03XP30X		
O.D.E. BRG.	35BC03XP30X		
GREASE	POLYREX EM		
RPM MAX	5400	MAX. KVAR	N/A
BLANK			
INV. TYPE	PWM		
T=	160		
C HP FR	60	C HP TO	90
CT HZ FROM	6	CT HZ TO	60
VT HZ FROM	3	VT HZ TO	60
HTR-VOLTS		HTR-AMPS	
HTR-WATTS		MAX. SPACE HEATER TEMP.	

Parts List		
Part Number	Description	Quantity
SA235039	SA 07K374Y012G1	1.000 EA
RA222002	RA 07K374Y012G1	1.000 EA
36FN3000C02SP	EXFN, PLASTIC, 5.25 OD, 1.175 ID	1.000 EA
HW3201A05	3/8-16 EYEBOLT	1.000 EA
09CB1001A03G	CONDUIT BOX, MACH GRAY	1.000 EA
RM1017	LEAD SEPERATOR GASKET MODEL 307 1/8" THK	1.000 EA
19XW2520A16	SCREW,1/4-20X1 TAPTITE-II OR ROLOC 91	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 EA
10XN2520S06	1/4 20X3/8 HX HD CAP S.S.	2.000 EA
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	1.000 EA
37EP1101C43G	TEFC 307 BRG, GRSR,RELIEF,.25-20 FH TAPS	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 EA
37EP1101A32G	PU ENDPLATE MACH	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 EA
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
07FH1001A01G	SPL FAN HOUSING, 307, W/GREASER, GRAY EP	1.000 EA
10XN2520A28	1/4-20X 1 3/4 HEX HD	3.000 EA
WD4100A02	DP-1000 HEYCO PLUG OR 62MP1000 MICRO PL	1.000 EA
09CB1504A01G	LIPPED CONDUIT BOX LID, MACH GRAY EPOXY	1.000 EA
09GS1001A01	GASKET, BOX LID, 1/8 THICK BLACK NEOPREN	1.000 EA
10XN2520A12	1/4-20 X 3/4 HEX HEAD CAP	2.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 EA
HA1005A07	SLINGER, OD 2.25, ID 1.344, 307 BRG	1.000 EA
HW4600B33	V-RING SLINGER 1.375 X 1.890 X .35 VITON	1.000 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
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 QT
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
LB1002N	LABEL,MARINE DUTY (ON ROLLS)	1.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB
HA3104A32	THRUBOLT- 5/16-18 X12.750	4.000 EA
MG1025N19	WILKOFASST, 778.50, RELIANCE BLUE-GREEN	0.036 GA
LB1449	DIV-2/NEC WARNING LABEL	1.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP3257E	SS CP SUPER-E DIV-2 UL CSA-C US EEV PREM	1.000 EA
NP3260E	SS CP SUPER-E AUX DATA INFORMATION	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
07PA1011	PKG GRP, 07 CAST IRON PK1181	1.000 EA

MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA
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AC Induction Motor Performance Data

Record # 47063

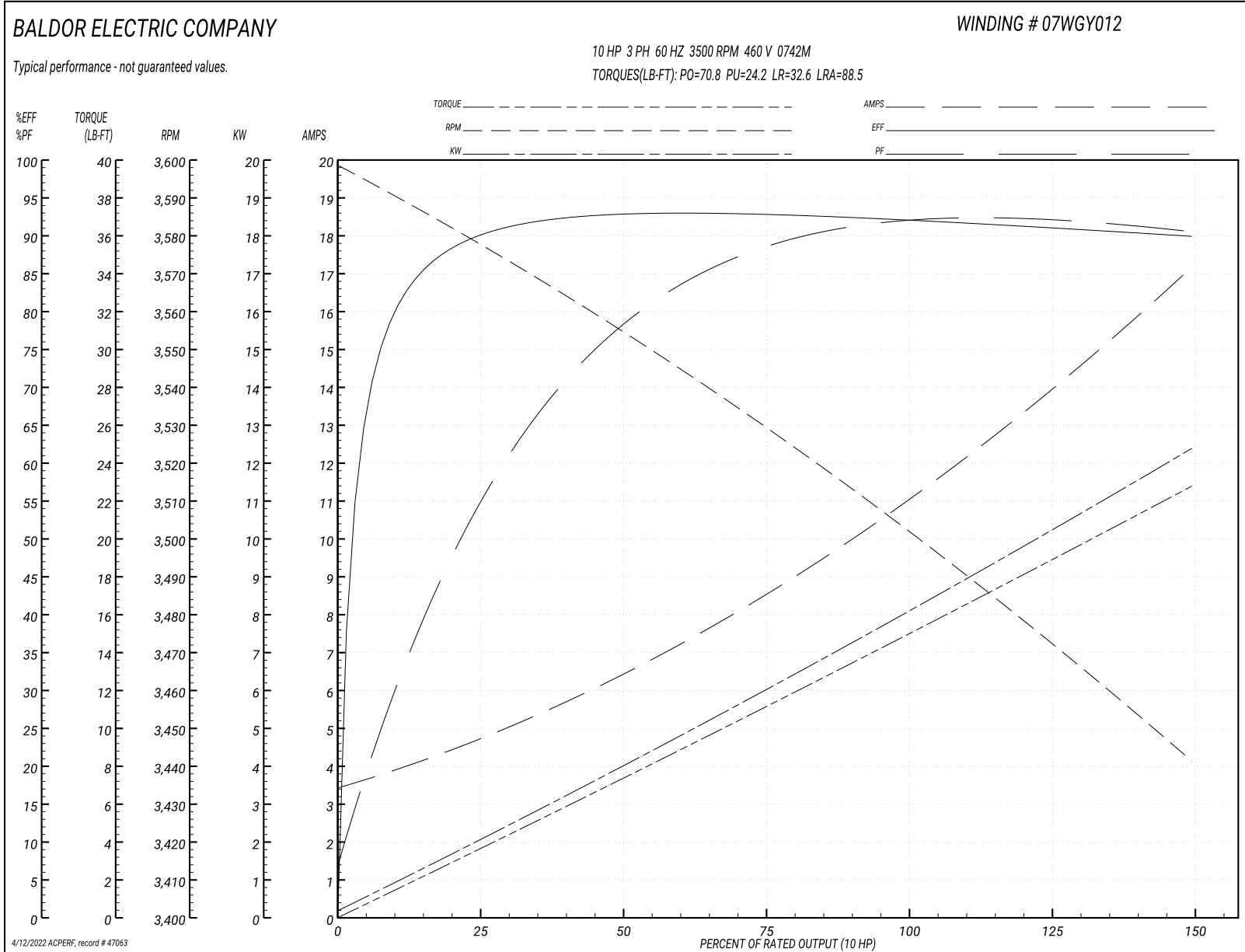
Typical performance - not guaranteed values

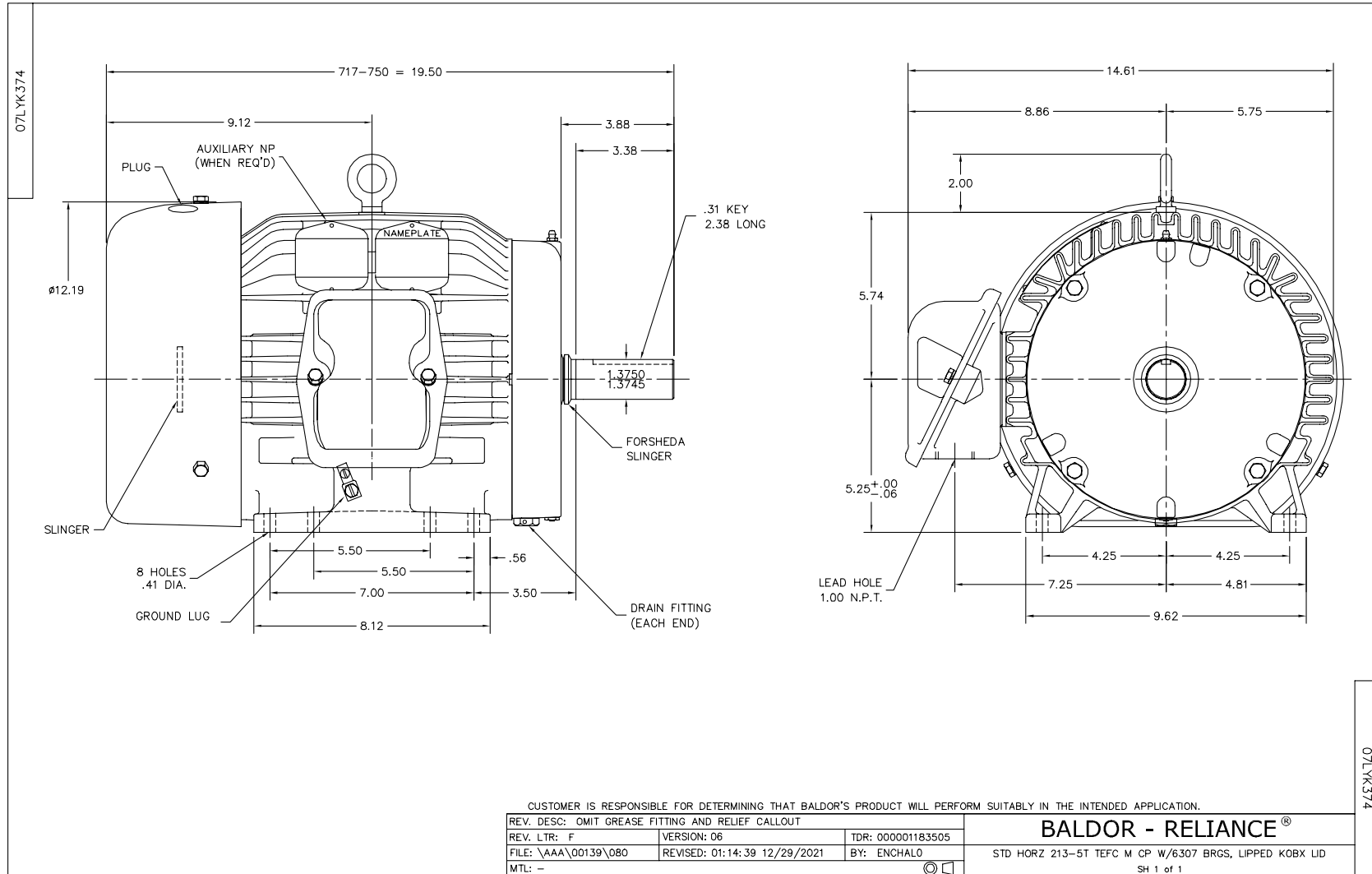
Winding: 07WGY012-R046		Type: 0742M	Enclosure: TEFC
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	10	Full Load Torque	14.9 LB-FT
Volts	230/460	Start Configuration	direct on line
Full Load Amps	22/11	Breakdown Torque	70.8 LB-FT
R.P.M.	3500	Pull-up Torque	24.2 LB-FT
Hz	60 Phase	Locked-rotor Torque	32.6 LB-FT
NEMA Design Code	B KVA Code	Starting Current	88.5 A
Service Factor (S.F.)	1.15	No-load Current	3.61 A
NEMA Nom. Eff.	92.4 Power Factor	Line-line Res. @ 25°C	0.776 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	40°C
S.F. Amps		Temp. Rise @ S.F. Load	51°C
		Rotor inertia	0.383 LB-FT ²

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	58	79	88	90	92	91	91
Efficiency	90.1	93	93.2	92.5	91.4	90	91.8
Speed	3578.4	3554.5	3528.7	3503.4	3473.7	3440.8	3486
Line amperes	4.43	6.32	8.64	11.1	13.9	17.1	12.8

Performance Graph at 460V, 60Hz, 10.0HP Typical performance - Not guaranteed values

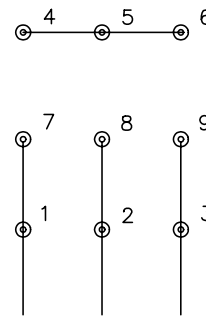




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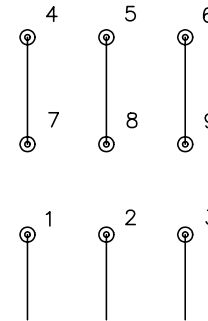


LOW VOLTAGE
(2Y)



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