

**BALDOR® • RELIANCE** 

**Product Information Packet**

**ECP84104T-5**

**30HP, 1770RPM, 3PH, 60HZ, 286T, TEFC, F1**

Part Detail							
Revision:	F	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	10WGZ479	CD Diagram:	CD0006	Mfg Plant:	
Mech. Spec:		Layout:	10LYH231	Poles:	04	Created Date:	12-06-2018
Base:		Eff. Date:	08-17-2021	Leads:	3#10		

Specs			
Catalog Number:	ECP84104T-5	Inverter Code:	Inverter Duty
Enclosure:	TEFC	IP Rating:	IP56
Frame:	286T	KVA Code:	G
Frame Material:	Iron	Lifting Lugs:	Standard Lifting Lugs
Output @ Frequency:	30.000 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	3 @ 10 AWG
Voltage @ Frequency:	575.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
XP Class and Group:	CLI GP A,B,C,D	Motor Lead Termination:	Ring Terminals
XP Division:	Division II	Motor Type:	1060M
Agency Approvals:	CCSA US	Mounting Arrangement:	F1
	CSA EEV	Power Factor:	84
	UR	Product Family:	Chem Process S/P 32-8 IEEE 841
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:	1	Shaft Ground Indicator:	No Shaft Grounding

<b>Current @ Voltage:</b>	28.000 A @ 575.0 V	<b>Shaft Rotation:</b>	Reversible
<b>Design Code:</b>	B	<b>Shaft Slinger Indicator:</b>	No Slinger
<b>Drip Cover:</b>	No Drip Cover	<b>Speed Code:</b>	Single Speed
<b>Duty Rating:</b>	CONT	<b>Motor Standards:</b>	NEMA
<b>Electrically Isolated Bearing:</b>	Not Electrically Isolated	<b>Starting Method:</b>	Direct on line
<b>Enclosure Modification:</b>	841	<b>Thermal Device - Bearing:</b>	None
<b>Feedback Device:</b>	NO FEEDBACK	<b>Thermal Device - Winding:</b>	None
<b>Front Face Code:</b>	Standard	<b>Vibration Sensor Indicator:</b>	No Vibration Sensor
<b>Front Shaft Indicator:</b>	None	<b>Winding Thermal 1:</b>	None
<b>Heater Indicator:</b>	No Heater	<b>Winding Thermal 2:</b>	None
<b>Insulation Class:</b>	F	<b>XP Temp Code:</b>	T3C

Nameplate NP3190											
STK.NO.	ECP84104T-5		P/N			ENCLOSURE	TEFC				
SPEC.	10-0000-0404		CC	010A	FRAME	286T		S/N			
HP	30		CLASS	F	HZ	60		ODE BRG	6311	DE BRG	6311
RPM	1770	RPM MAX	2700		PH	3		DES	B		
VOLT	575		KVA-CODE	G		O.D.E. BRG.	55BC03X30X				
AMP	28		MOTOR WEIGHT	460		GREASE	POLYREX EM				
RATING	40C AMB-CONT		MAX. KVAR	7.4		BLANK					
NEMA-NOM-EFF	93.6	# OF ROTOR BARS	40		SER.F.	1.15		IP	56		
G.MIN.EFF	92.4	# OF STATOR SLOTS	48		PF	84		INV.TYPE	PWM		
TEMP CODE	T3C		INVERTER-TEMP-CODE	180							
TEMP =	160		C HP FR	60		C HP TO	90				
CT HZ FROM	1		CT HZ TO	60							
HTR-VOLTS			HTR-AMPS			HTR-WATTS			MAX. SPACE HEATER TEMP.		
								VT HZ FROM	O	VT HZ TO	60

Parts List		
Part Number	Description	Quantity
SA363739	SA 10-0000-0404	1.000 EA
RA353030	RA 10-0000-0404	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0006	CONNECTION LABEL	1.000 EA
LB1449	DIV-2/NEC WARNING LABEL	1.000 EA
NP3190	SS IEEE841 INV DIV-2 UL CSA-C US EEV	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA
WD1000B49	T&B C73,RING TERMINAL 10-12 AWG 3/8 STUD	3.000 EA
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	1.000 EA
80XN3816A12	SET SCREW,HEX SOCKET CUP POINT,3/8-16 X	4.000 EA
10FH1007A24GP6	FAN COVER W/1.00 SLOT @ 6:00	1.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	3.000 EA
10XN3118K20	5/16-18 X 1 1/4 GRADE 5 STEEL ZC PLATED	3.000 EA
09FN3001C02	EXTERNAL FAN, PLASTIC (COMES W/SCREW FRO	1.000 EA
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.130 LB
10XN2520K06	1/4-20 X 3/8" HX HD SCREWGRADE 5, ZINC P	1.000 EA
10EP1110A02GP6	FR ENDPLATE, MACH W/PRIMER & PAINT	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
HW4601A53	INPRO/SEAL VBXX FOR 311 BEARING/310 FRAM	1.000 EA
HW5100A13	W4627-047 WVY WSHER	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HA4017A02	.125X2.50 GREASER EXTENS.F/S	1.000 EA
HA4017A02	.125X2.50 GREASER EXTENS.F/S	1.000 EA
HW4019A01	PIPE COUPLING 1/8 NPT,STEEL,ZINC COATING	1.000 EA
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	4.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A21	1618BALEMITE FITTING 825 UNIVERSAL	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
HA4002A03	#304 S.S. DRAIN FITTING, .125 NPT (.44 H	1.000 EA
HA4002A03	#304 S.S. DRAIN FITTING, .125 NPT (.44 H	1.000 EA
10EP1110A01P	MACH'D EPOXY PRIMED EP	1.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
10XN3816K28	3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5	4.000 EA
HW4601A53	INPRO/SEAL VBXX FOR 311 BEARING/310 FRAM	1.000 EA
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	4.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
10CB1000A09P	KOBX, MACH W/1.50 NPT & PRIMER	1.000 EA
09GS1010	GASKET, DWG, LEADWIRE SEPERATOR	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 OR L70P TERMINAL LUG	1.000 EA

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59XW2520G07	.25-20X.44,HEX SER WSHR,TAPTITE 2,GREEN	1.000 EA
10CB1503A01P	CONDUIT BOX LIPPED LID, MACH W/EPXY PRMR	1.000 EA
14GS1003	GASKET CONDUIT BOX LID, NEOP	1.000 EA
10XN2520K16	1/4-20 X 1" HX HD SCRW GRADE 5, ZINC P	4.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA
MG1025N19	WILKOFAS, 778.50, RELIANCE BLUE-GREEN	0.125 GA
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.031 QT
MJ5002A01	SILICON RUBBER SEALANT, 732CL 10.3 OZ TU	0.033 EA
MJ5002A01	SILICON RUBBER SEALANT, 732CL 10.3 OZ TU	0.025 EA
10PA1000	PACKAGING GROUP COMBINED PRINT PK1023A06	1.000 EA
HW2501H28	KEY, 1/2 SQ X 3.250	1.000 EA
MJ5004A59	ADHESIVE LOCTITE #401 SURFACE INSENSITIV	0.010 EA

**AC Induction Motor Performance Data**

Record # 53760

Typical performance - not guaranteed values

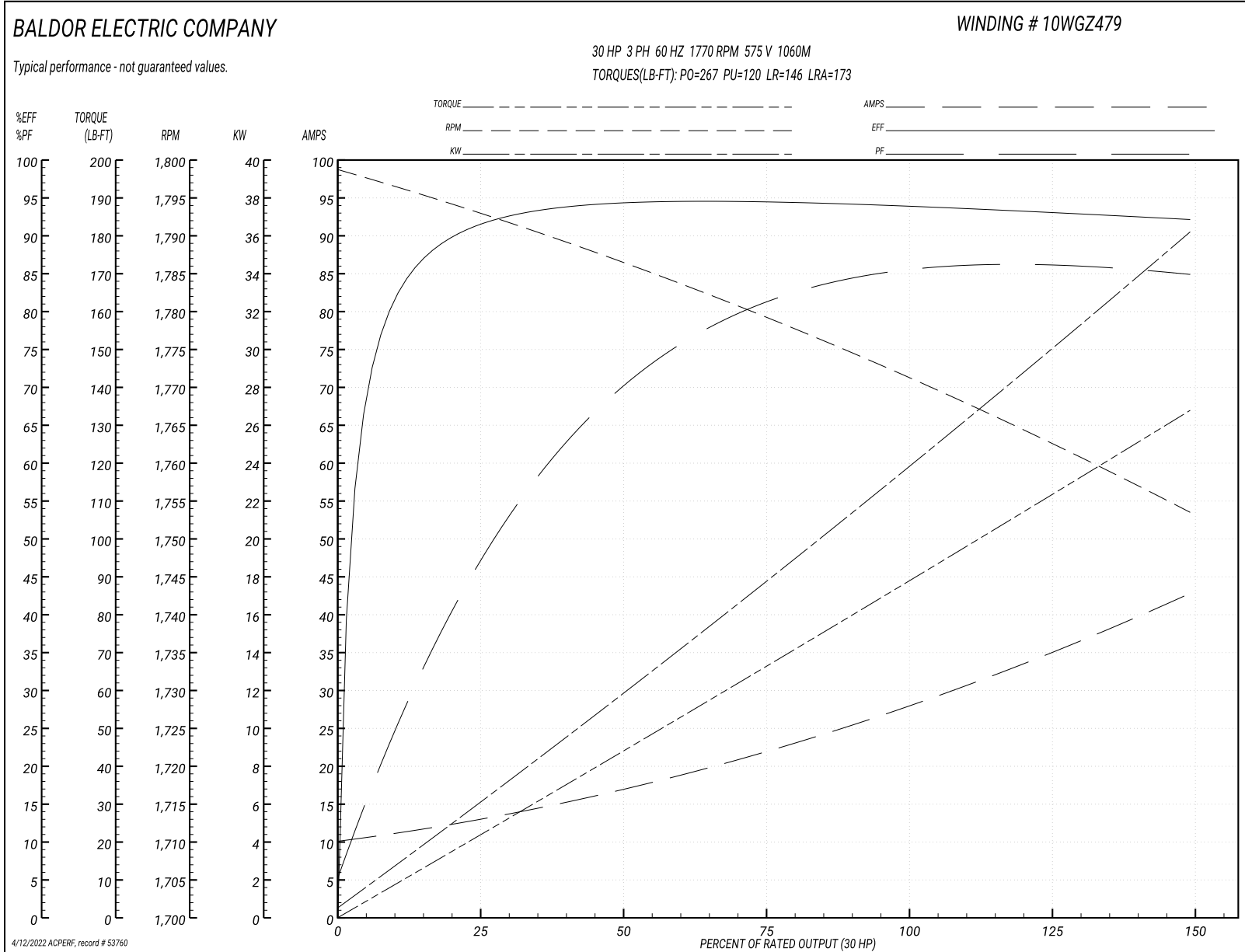
Winding: 10WGZ479-R001		Type: 1060M	Enclosure: TEFC	
<b>Nameplate Data</b>			<b>575 V, 60 Hz: Single Voltage Motor</b>	
Rated Output (HP)	30	Full Load Torque	88.65 LB-FT	
Volts	575	Start Configuration	direct on line	
Full Load Amps	28	Breakdown Torque	267 LB-FT	
R.P.M.	1770	Pull-up Torque	120 LB-FT	
Hz	60 Phase	Locked-rotor Torque	146 LB-FT	
NEMA Design Code	B KVA Code	Starting Current	173 A	
Service Factor (S.F.)	1.15	No-load Current	10.53 A	
NEMA Nom. Eff.	93.6 Power Factor	Line-line Res. @ 25°C	0.379 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	63°C	
S.F. Amps		Temp. Rise @ S.F. Load	77°C	
		Locked-rotor Power Factor	30.6	
		Rotor inertia	4.77 LB-FT <sup>2</sup>	

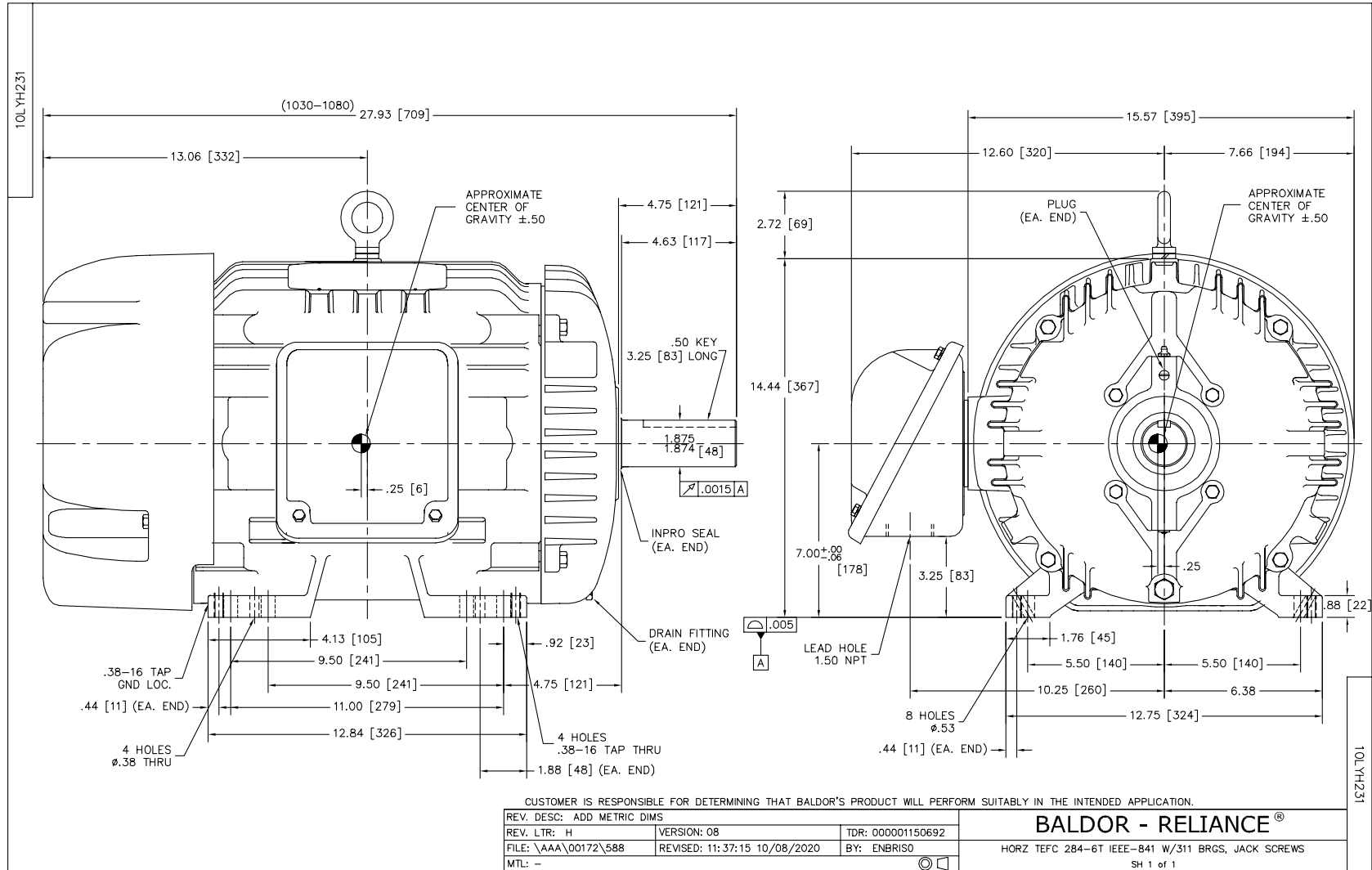
**Load Characteristics 575 V, 60 Hz, 30 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	49	72	81	84	86	85	83
Efficiency	91	94	94.3	94	93.6	91.9	93.6
Speed	1793	1786	1779	1772	1763	1753	1770
Line amperes	12.39	16.69	22.06	28.33	35.06	42.67	33.3



Performance Graph at 575V, 60Hz, 30.0HP Typical performance - Not guaranteed values





CD0006



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

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**BALDOR - RELIANCE**®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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