



Customer information packet

EM4104T-12

30HP, 1760RPM, 3PH, 60HZ, 286T, 1056M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	286T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	36.000 A @ 460.0 V 72.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part detail

Revision	X
Type	AC
Mech. spec.	10C151
Base	
Status	PRD/A
Elec. spec.	10WGY773
Layout	10LYC151
Eff. date	06-27-2024
CD Diagram	CD0104
Poles	04
Leads	12#8
Proprietary	False
Created date	08-03-2010

Heater Indicator	No Heater
High Voltage Full Load Amps	36.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	12 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1056M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	27.76 IN
Power Factor	85
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1760 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

Winding Thermal 2

None

Nameplate

NP3443L

CAT.NO.	EM4104T-12	CUST. P/N				ENCL	TEFC
SPEC.	10C151Y773G1	CC	010A	FRAME	286T	SER.NO.	
HP	30	CLASS		F	HZ	60	
R.P.M.	1760	PH	3	DES	A		
VOLTS	230/460	CODE		H	ODE BRG	6309	DE BRG 6311
AMPS	72/36						
RATING	40C AMB-CONT	NEMA NOM. EFF.			93.6	GREASE	POLYREX EM
P.F.	85	SER.F.	1.15	VPWM INVERTER READY			
HTR-VOLTS		HTR-AMPS		HTR-WATTS			

AC Induction Motor Performance Data

Record # 31378

Typical performance - not guaranteed values

Winding: 10WGY773-R001		Type: 1056M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	30	Full Load Torque	88.8 LB-FT		
Volts	230/460	Start Configuration	direct on line		
Full Load Amps	72/36	Breakdown Torque	298 LB-FT		
R.P.M.	1760	Pull-up Torque	124 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque	156 LB-FT	
NEMA Design Code	B	KVA Code	H	Starting Current	238 A
Service Factor (S.F.)	1.15	No-load Current	14 A		
NEMA Nom. Eff.	93.6	Power Factor	85	Line-line Res. @ 25°C	0.22 Ω
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	65°C	
S.F. Amps			Temp. Rise @ S.F. Load	79°C	
			Locked-rotor Power Factor	31	
			Rotor inertia	4.47 LB-FT ²	

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	49	72	80	85	86	87	86
Efficiency	88.4	92.5	93.5	93.6	92.9	92	93.1
Speed	1792	1787	1781	1774	1767	1758	1770
Line amperes	16.2	21.2	28.2	35.5	44	54.1	40.6

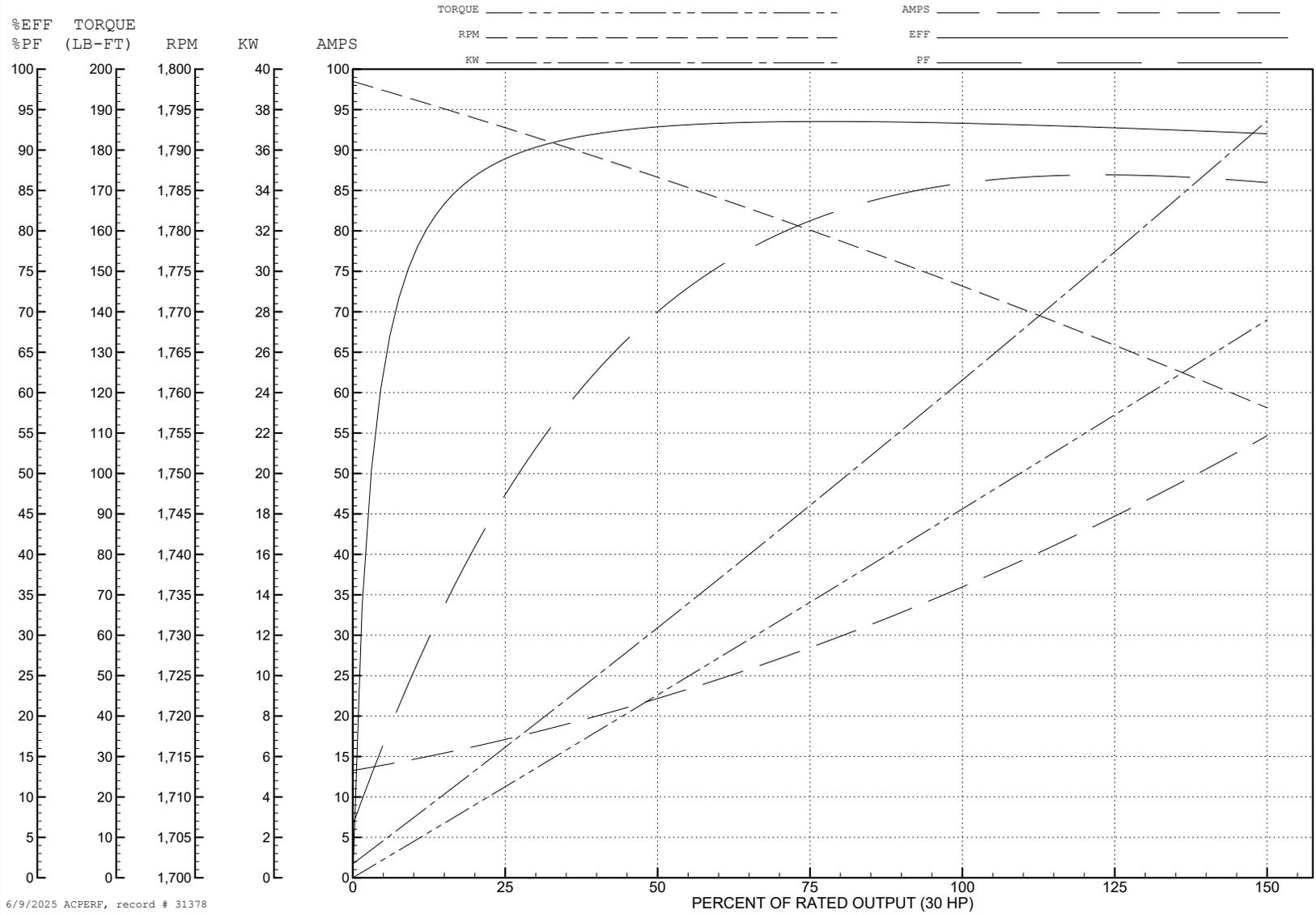
ABB Motors and Mechanical Inc.

WINDING # 10WGY773

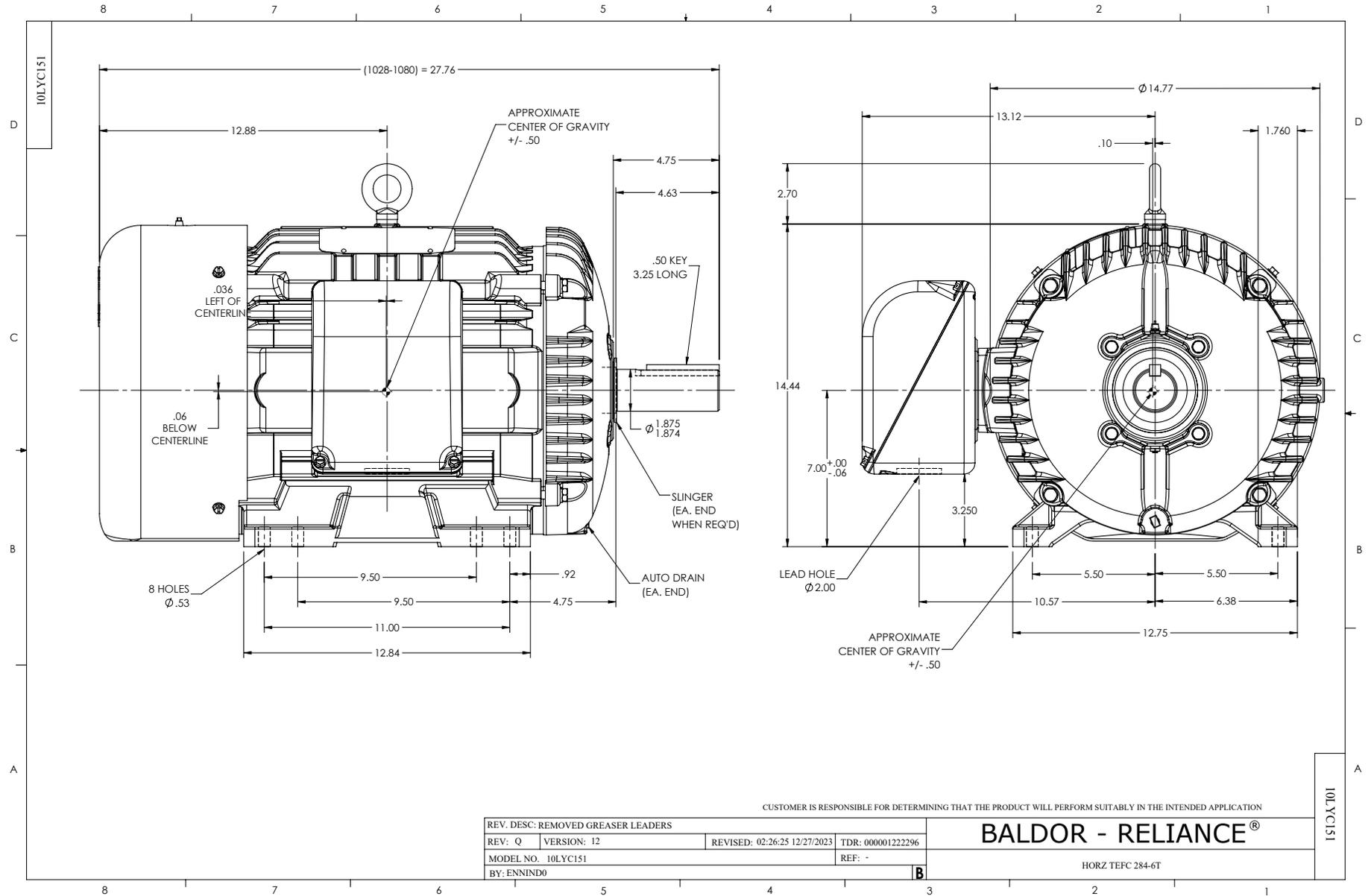
Typical performance - not guaranteed values.

30 HP 3 PH 60 HZ 1760 RPM 460 V 1056M

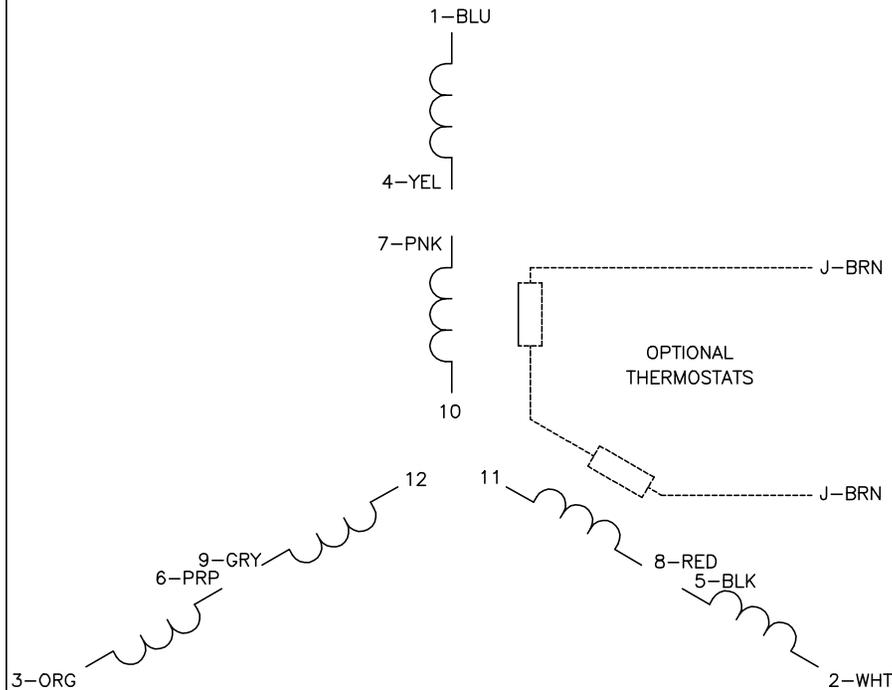
TORQUES (LB-FT): PO=298 PU=124 LR=156 LRA=238



6/9/2025 ACPERF, record # 31378

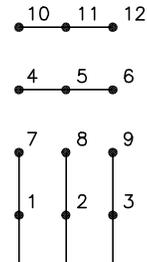


CD0104



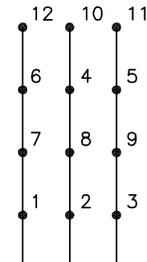
LOW VOLTAGE

START (2Y)



LINE

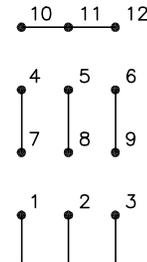
RUN (2D)



LINE

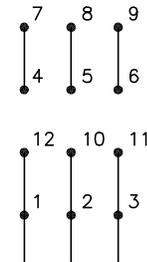
HIGH VOLTAGE

START (1Y)



LINE

RUN (1D)



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.

CD0104

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REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00008\377	REVISED: 09:02:55 02/19/2019	BY: ENBRIRO
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3PH, DV, 12 LEADS, Y START/D RUN

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