

ABB BALDOR RELIANCE III

Customer information packet

ECTM4110T-5G

40HP, 1775RPM, 3PH, 60HZ, 324T, 1254M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	324T
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	40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	39.000 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	Tapped & Key
Heater Indicator	Heater Included, 115 V
High Voltage Full Load Amps	39.0 a
Insulation Class	F

Part Detail

Revision	E
Type	AC
Mech. spec.	12T112
Base	
Status	PRD/A
Elec. spec.	12WGY285
Layout	12LYT112
Eff. date	03-17-2026
CD Diagram	CD0006
Poles	04
Leads	3#8
Proprietary	False
Created date	04-14-2022

Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1254M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	30.34 IN
Power Factor	82
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1775 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1260											
CAT.NO.	ECTM4110T-5G										
SPEC.	12T112Y285G1										
HP	40										
VOLTS	575										
AMP	39										
RPM	1775										
FRAME	324T		HZ	60			PH		3		
SER.F.	1.15		CODE	H		DES	A		CL		F
NEMA-NOM-EFF	94.1		PF	82							
RATING	40C AMB-CONT										
CC	010A										
DE	6312		ODE	6311							
ENCL	TEFC		SN								
	INV DUTY 20:1VT										

AC Induction Motor Performance Data

Record # 30999

Typical performance - not guaranteed values

Winding: 12WGY285-R001				Type: 1254M		Enclosure: TEFC	
Nameplate Data				575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		40		Full Load Torque		118 LB-FT	
Volts		575		Start Configuration		direct on line	
Full Load Amps		39		Breakdown Torque		367 LB-FT	
R.P.M.		1775		Pull-up Torque		174 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		185 LB-FT	
NEMA Design Code		A	KVA Code	H	Starting Current		267 A
Service Factor (S.F.)		1.15		No-load Current		15.6 A	
NEMA Nom. Eff.		94.1	Power Factor	82	Line-line Res. @ 25°C		0.232 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		54°C	
S.F. Amps				Temp. Rise @ S.F. Load		65°C	
				Locked-rotor Power Factor		27.2	
				Rotor inertia		7.19 lb-ft²	

Load Characteristics 575 V, 60 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	46	67	77	82	84	85	83
Efficiency	90.1	93.6	94.3	94.3	94.2	93.3	94.2
Speed	1795	1790	1785	1780	1774	1767	1776
Line amperes	18.3	24.1	31.1	38.7	47.6	56.3	44

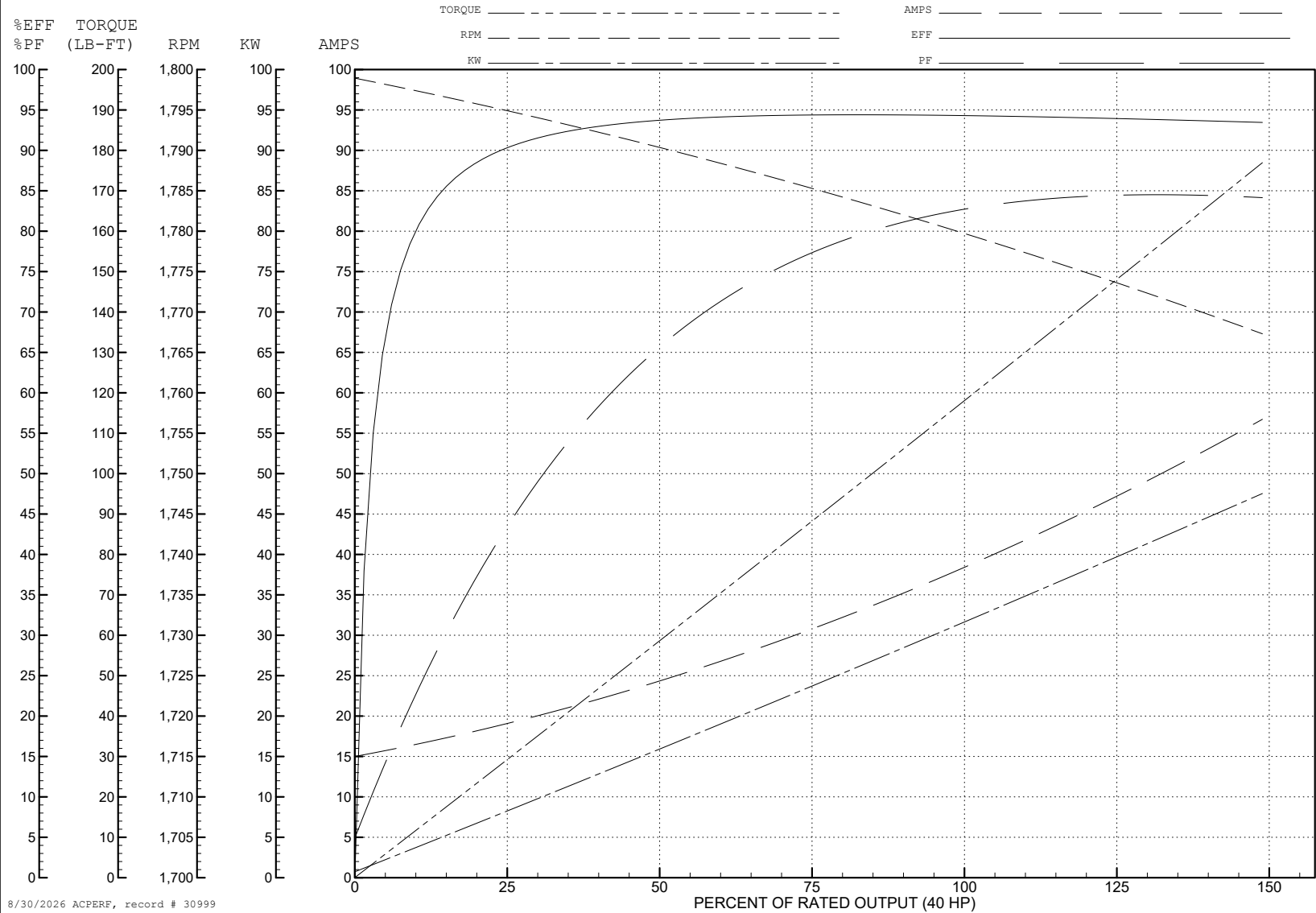
ABB Motors and Mechanical Inc.

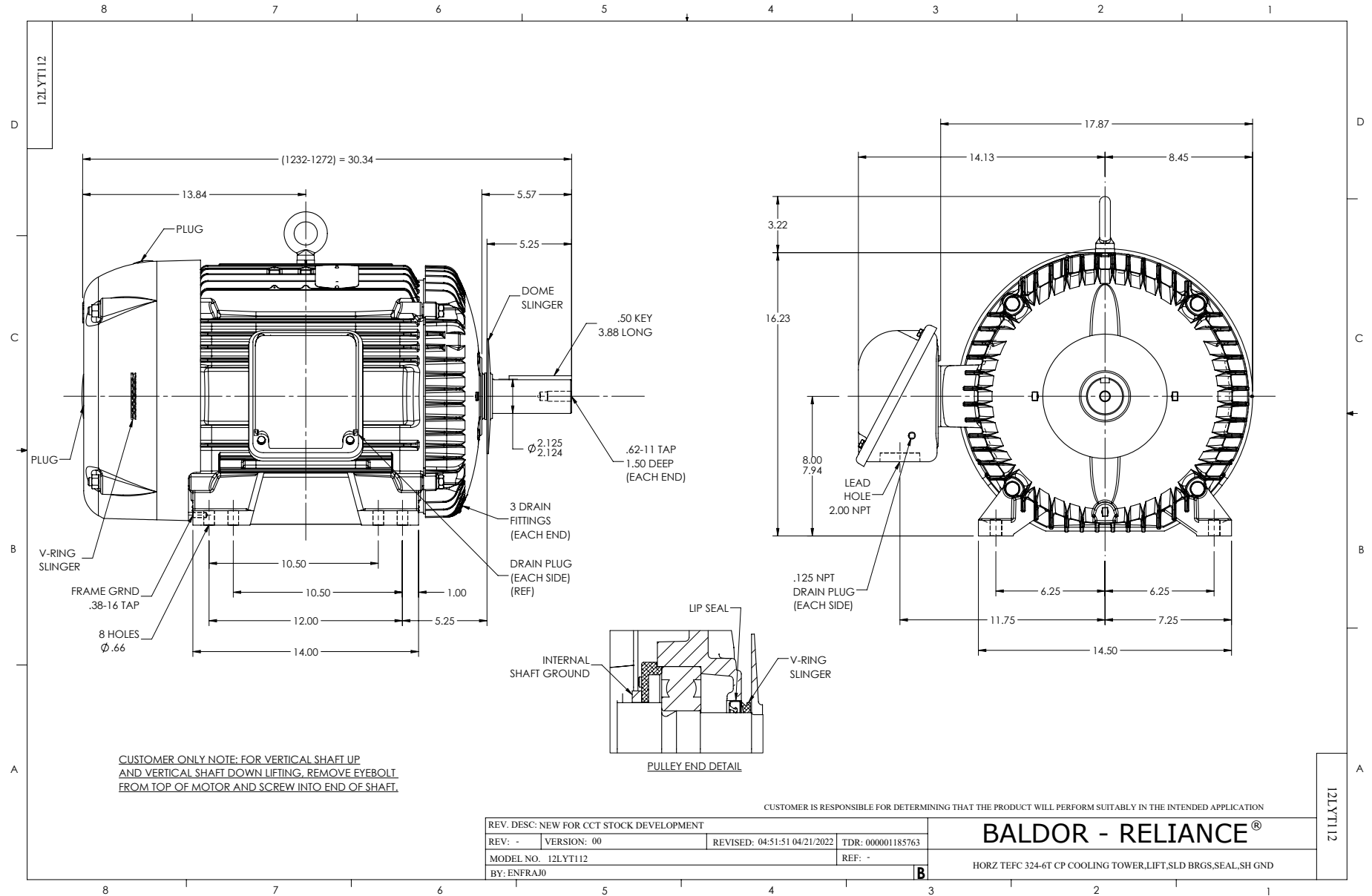
WINDING # 12WGY285

Typical performance - not guaranteed values.

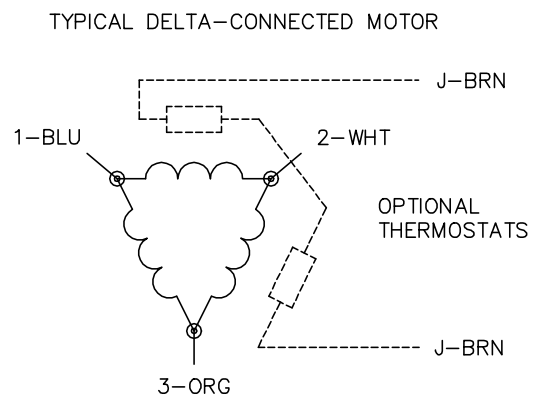
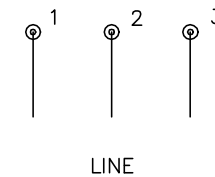
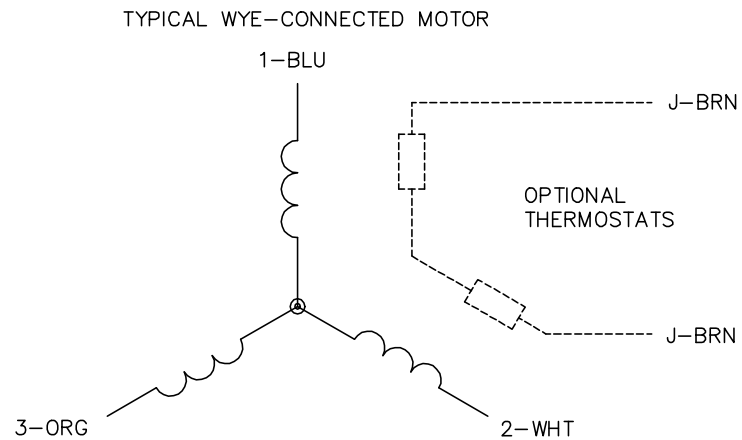
40 HP 3 PH 60 HZ 1775 RPM 575 V 1254M

TORQUES (LB-FT): PO=367 PU=174 LR=185 LRA=267





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

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10: 24: 49 02/19/2019

BY: ENBRIRO

MTL: -



BALDOR - RELIANCE®

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

SH 1 of 1