

ABB BALDOR RELIANCE III

Customer information packet

ECP41003TX-50

25HP, 1470RPM, 3PH, 50HZ, 284T, 1060M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	284T
Frame Material	Iron
Frequency	50.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	25.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	380.0 V @ 50 HZ
Agency Approvals	C UR US CCSA US CE CURUS UR WEEE
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
Constant Torque Speed Range	25
Current @ Voltage	36.000 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK

Part Detail

Revision	J
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGZ438
Layout	10LYH292
Eff. date	10-08-2025
CD Diagram	CD0006
Poles	04
Leads	3#10
Proprietary	False
Created date	02-13-2020

Heater Indicator	No Heater
High Voltage Full Load Amps	36.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2200 rpm
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Motor Type	1060M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.00 IN
Power Factor	82
Product Family	Chemical Processing (Not DC)
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1470 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

NP3413L									
CAT.NO.	ECP41003TX-50								
SPEC.	10-0000-1357			FRAME	284T				
HZ	50	RPM	1470	PH	3				
AMB	40C			SER.F.	1.15				
HP	@ ALTITUDE M.A.S.L.				VOLTS	AMPS	L.R. CURRENT	NOM EFF.	
	25	1750	380	36	205	92.6			
	20	3200	380	30	205	92.1			
	20	4400	380	30	205	92.1			
	20	5000	380	30	205	92.1			
	EXXON POLYREX EM								

NP4679L

CAT.NO.	ECP41003TX-50									
SPEC.	10-0000-1357						ENCL		TEFC	
FRAME	284T			H.P.		25HP/18.5KW				
VOLTS	380 IP55 209KG									
MAG. CUR.	13.3				F.L. AMPS				36	
R.P.M.	1470			R.P.M. MAX				2200		
HZ.	50		PH.		3		CLASS		F	
SER.F.	1.15		DES.		B		SL HZ		1	
NOM.EFF.	92.6				WK2		4.79			
RATING	40C AMB-S1 CONT									
DE	6311			ODE		6311				
INV TYPE	PWM	CHP	50	TO		75	I.P.		55	
CT	25	TO	50	VT		5	TO		50	
CC			SN							
	1.00 VFD									

AC Induction Motor Performance Data

Record # 81446

Typical performance - not guaranteed values

Winding: 10WGZ438-R058			Type: 1060M		Enclosure: TEFC	
Nameplate Data			380 V, 50 Hz: Single Voltage Motor			
Rated Output (HP)		25	Full Load Torque		88.9 LB-FT	
Volts		380	Start Configuration		direct on line	
Full Load Amps		35	Breakdown Torque		259 LB-FT	
R.P.M.		1470	Pull-up Torque		120 LB-FT	
Hz	50	Phase	3	Locked-rotor Torque	146 LB-FT	
NEMA Design Code	B	KVA Code	G	Starting Current	205 A	
Service Factor (S.F.)			1	No-load Current	13.26 A	
NEMA Nom. Eff.	92.6	Power Factor	82	Line-line Res. @ 25°C	0.234 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load	63°C	
S.F. Amps				Temp. Rise @ S.F. Load	79°C	
				Locked-rotor Power Factor	32.9	
				Rotor inertia	4.77 lb-ft²	

Load Characteristics 380 V, 50 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	49	72	81	84	86	85
Efficiency	91.6	94.1	94.1	93.5	93.4	91.1
Speed	1493	1487	1479	1472	1464	1452
Line amperes	15.58	21.02	27.86	35.89	44.62	54.56

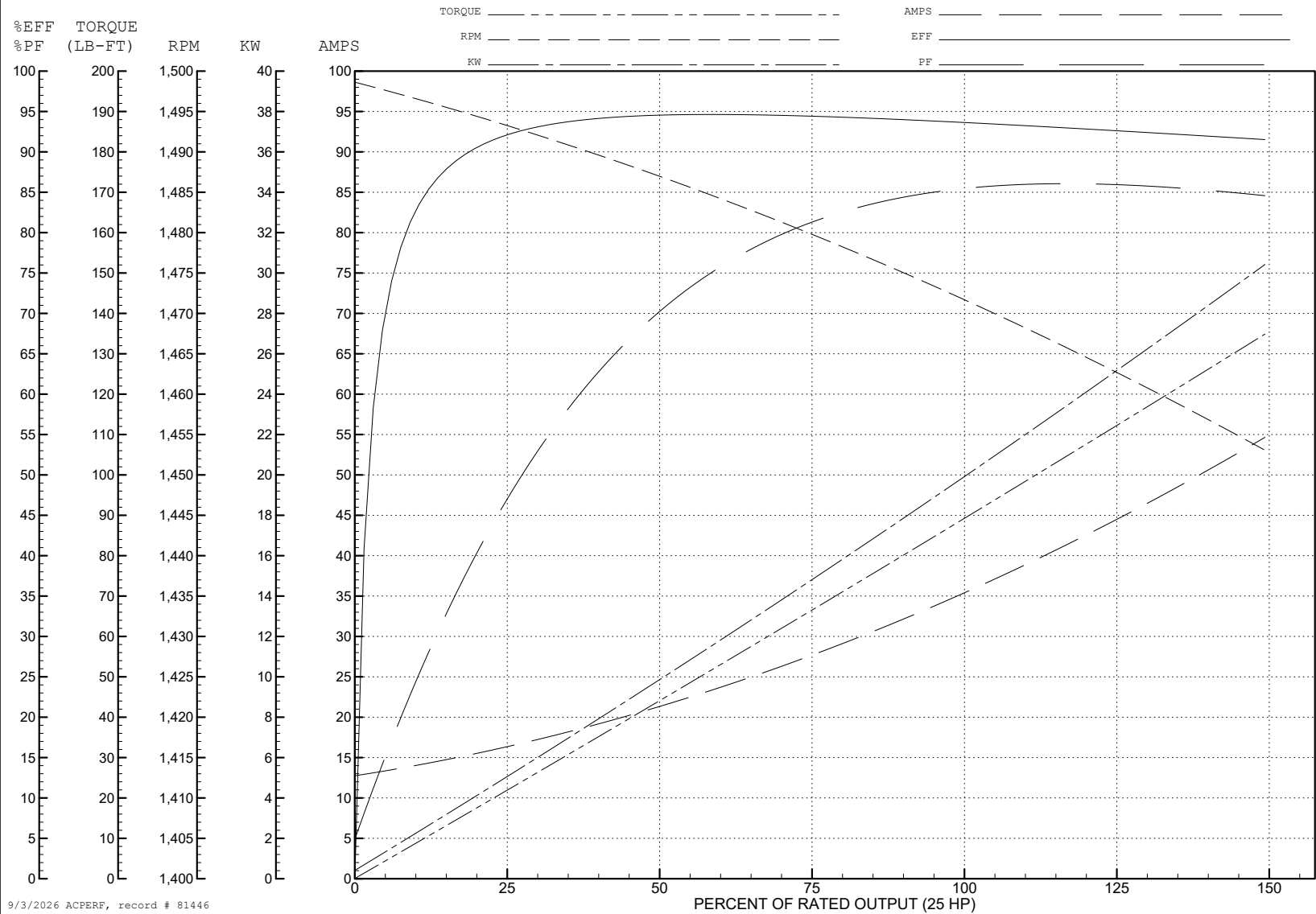
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WINDING # 10WGZ438

Typical performance - not guaranteed values.

25 HP 3 PH 50 HZ 1470 RPM 380 V 1060M

TORQUES (LB-FT): PO=259 PU=120 LR=146 LRA=205



AC Induction Motor Performance Data

Record # 82952

Typical performance - not guaranteed values

Winding: 10WGZ438-R058			Type: 1060M		Enclosure: TEFC	
Nameplate Data			380 V, 50 Hz: Single Voltage Motor			
Rated Output (HP)		25	Full Load Torque		70.84 LB-FT	
Volts		380	Start Configuration		direct on line	
Full Load Amps		36	Breakdown Torque		259 LB-FT	
R.P.M.		1470	Pull-up Torque		120 LB-FT	
Hz	50	Phase	3	Locked-rotor Torque	146 LB-FT	
NEMA Design Code	B	KVA Code	F	Starting Current	205 A	
Service Factor (S.F.)			1	No-load Current	13.26 A	
NEMA Nom. Eff.	92.6	Power Factor	82	Line-line Res. @ 25°C	0.234 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load	47°C	
S.F. Amps				Temp. Rise @ S.F. Load	57°C	
				Locked-rotor Power Factor	32.9	
				Rotor inertia	4.77 lb-ft²	

Load Characteristics 380 V, 50 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	42	65	76	82	85	86
Efficiency	89.8	93.3	93.9	93.7	93.6	92
Speed	1494	1489	1483	1477	1471	1463
Line amperes	14.8	18.61	23.56	29.46	35.78	42.72

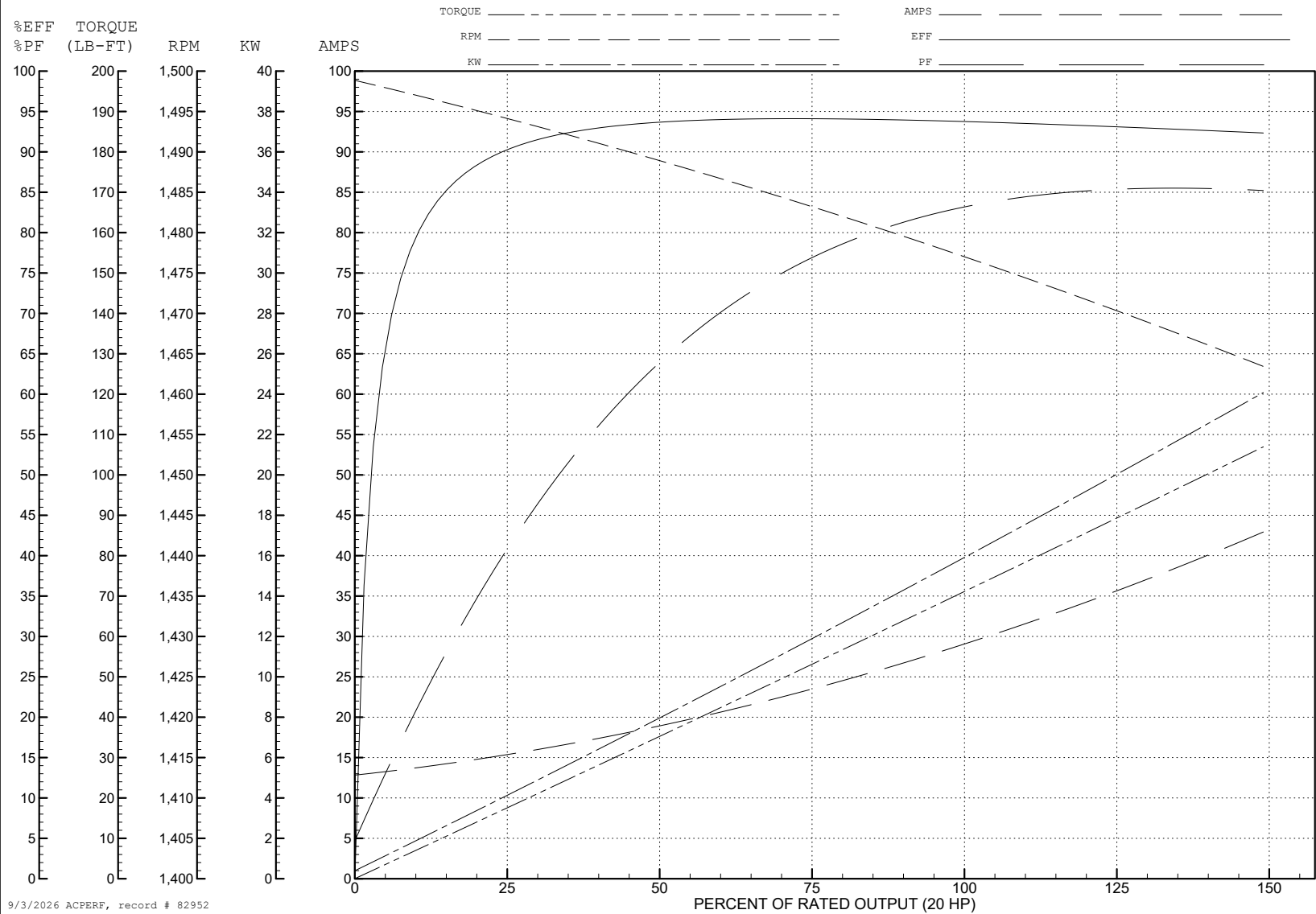
ABB Motors and Mechanical Inc.

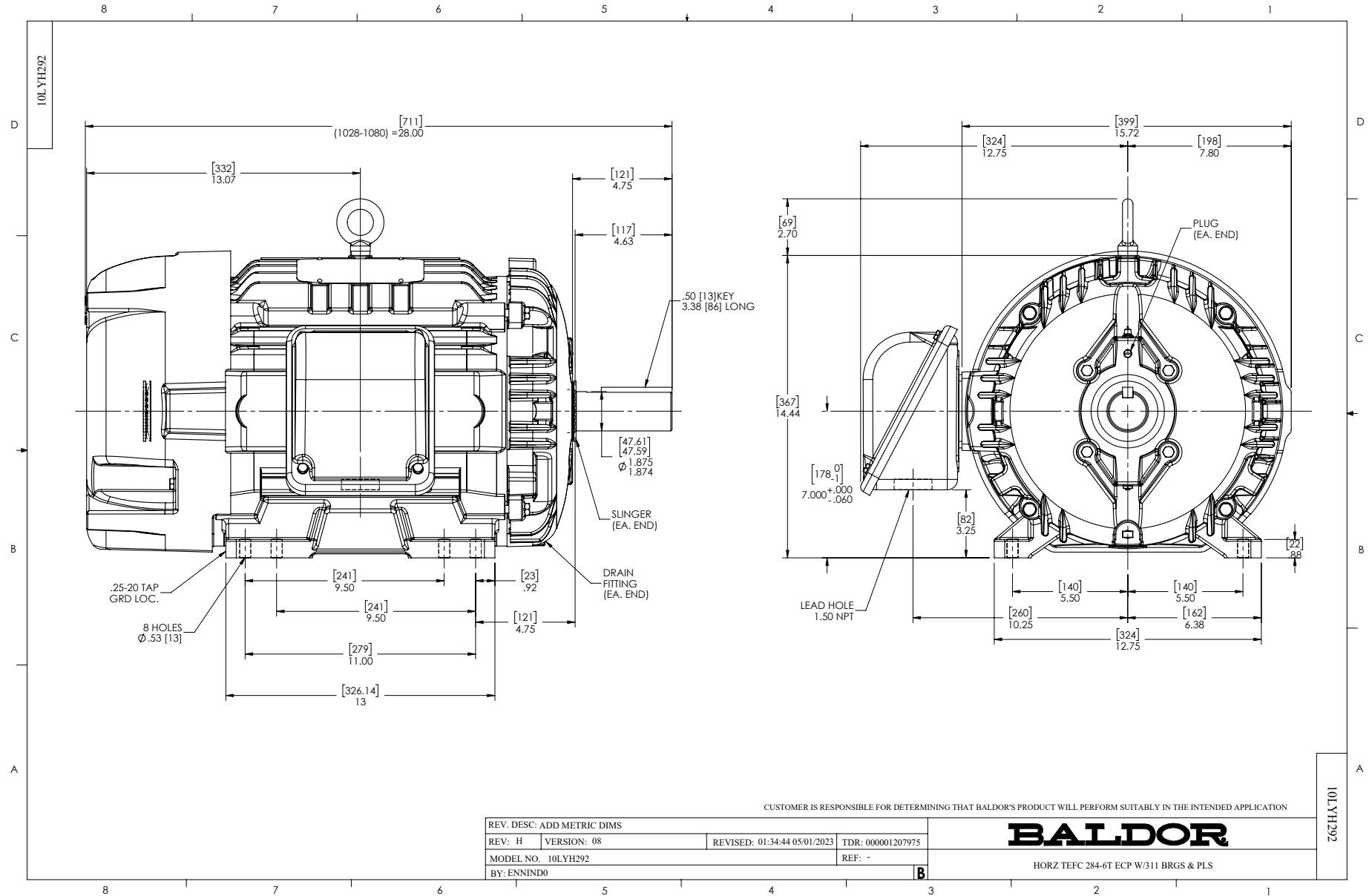
WINDING # 10WGZ438

Typical performance - not guaranteed values.

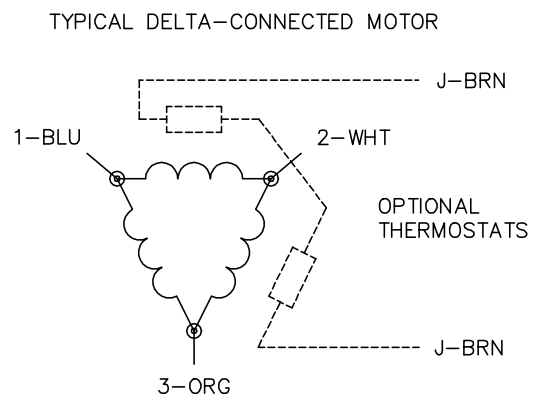
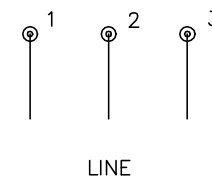
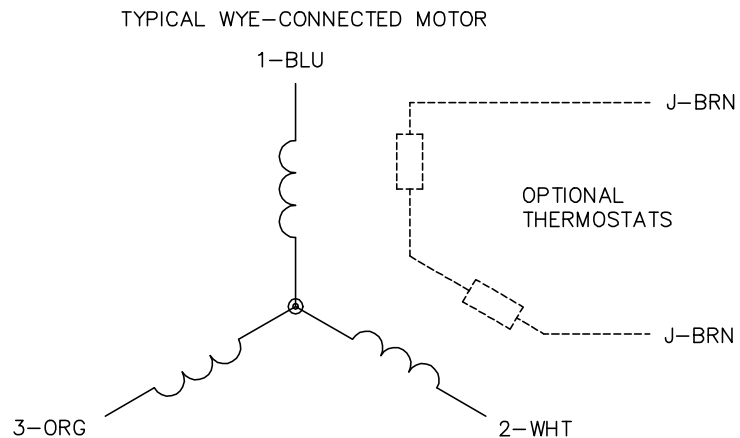
20 HP 3 PH 50 HZ 1470 RPM 380 V 1060M

TORQUES (LB-FT): PO=259 PU=120 LR=146 LRA=205





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

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