ABB BALDOR RELIANCE

Customer information packet

ECP41003TX-50

25HP, 1470RPM, 3PH, 50HZ, 284T, 1060M, TEFC, F1
Class - CLI GP A,B,C,D
Division - Division II

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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. @ 25ºC**	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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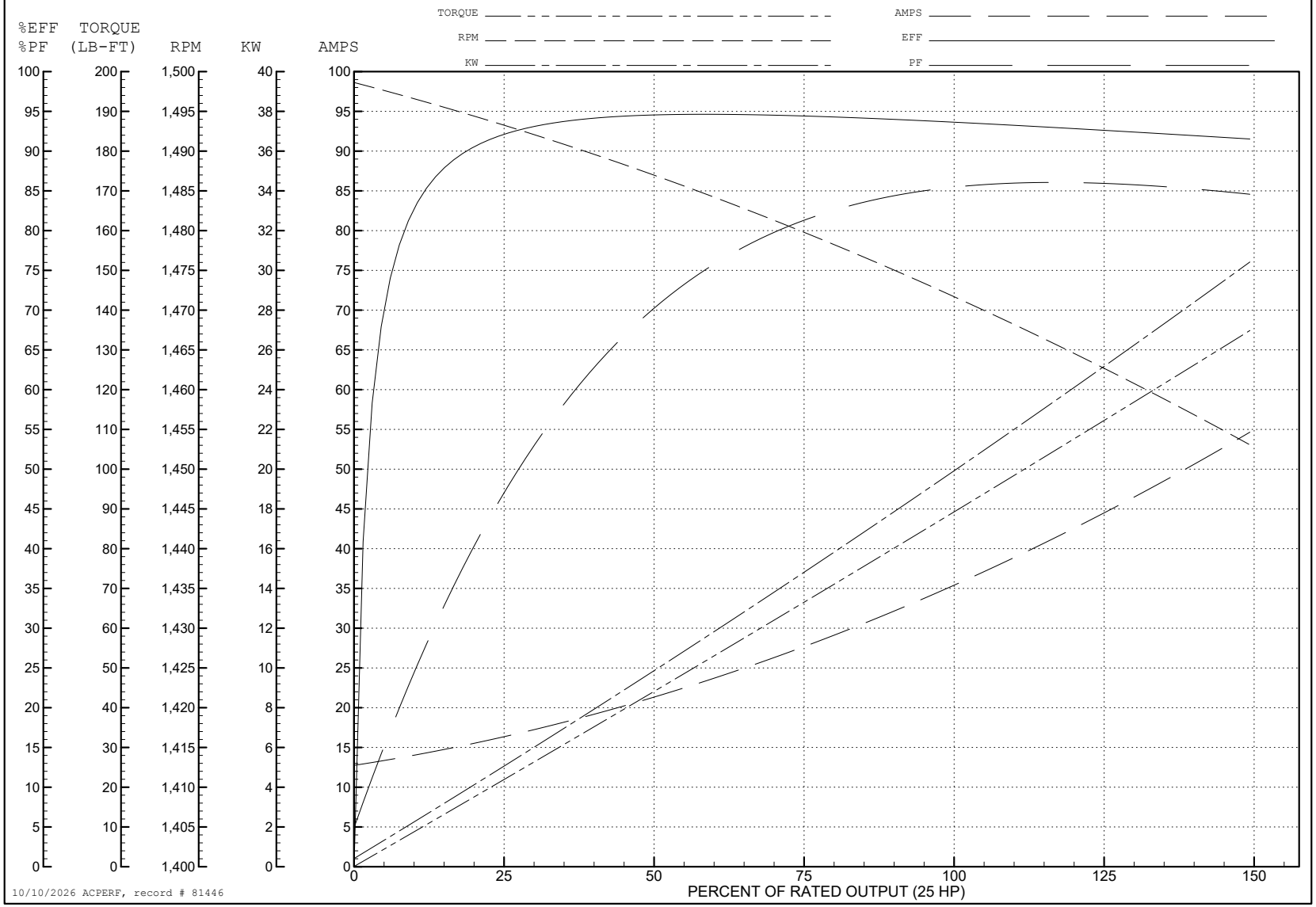
WINDING # 10WGZ438

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

Typical performance - not guaranteed values.

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. @ 25ºC**	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

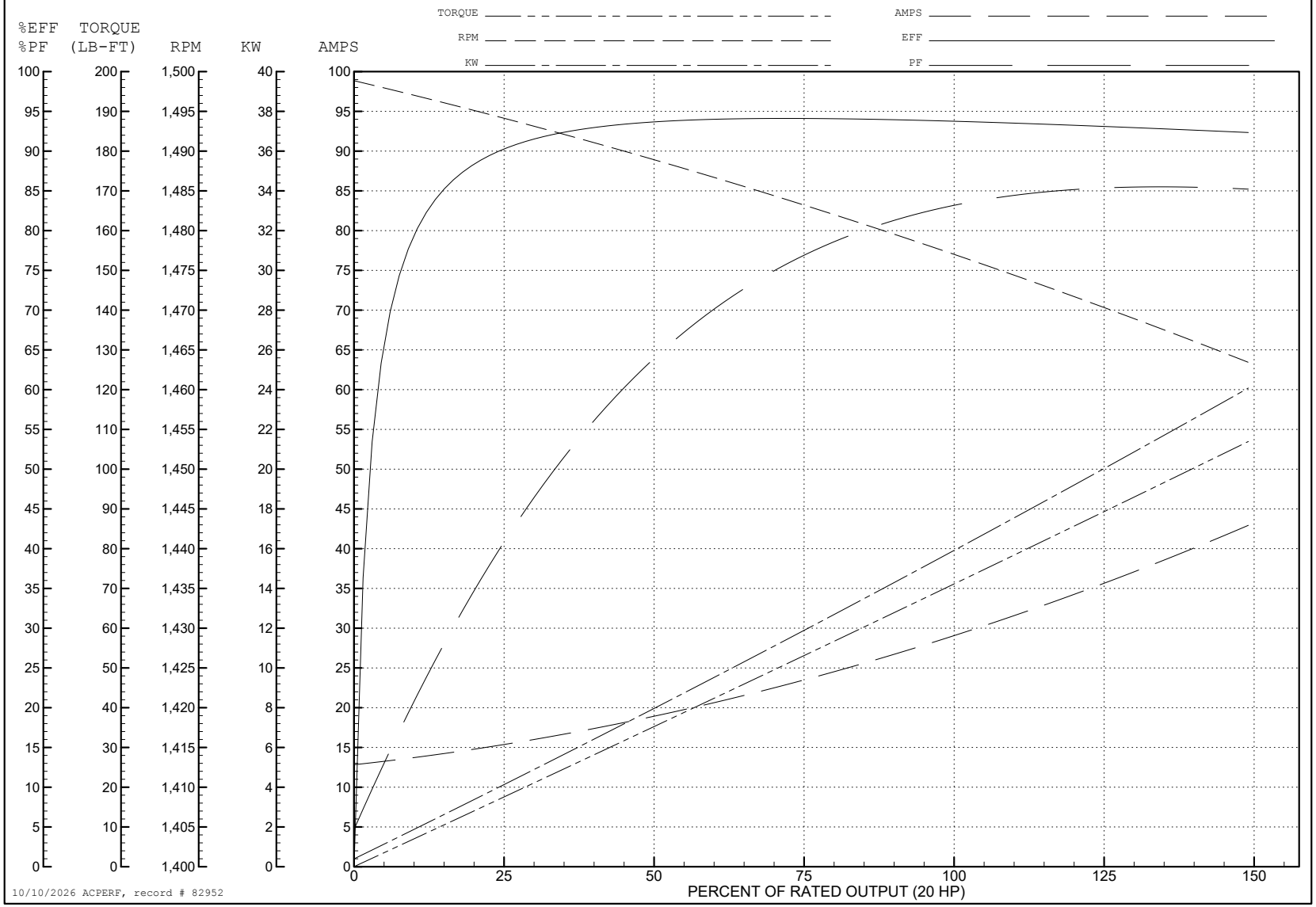
ABB Motors and Mechanical Inc.

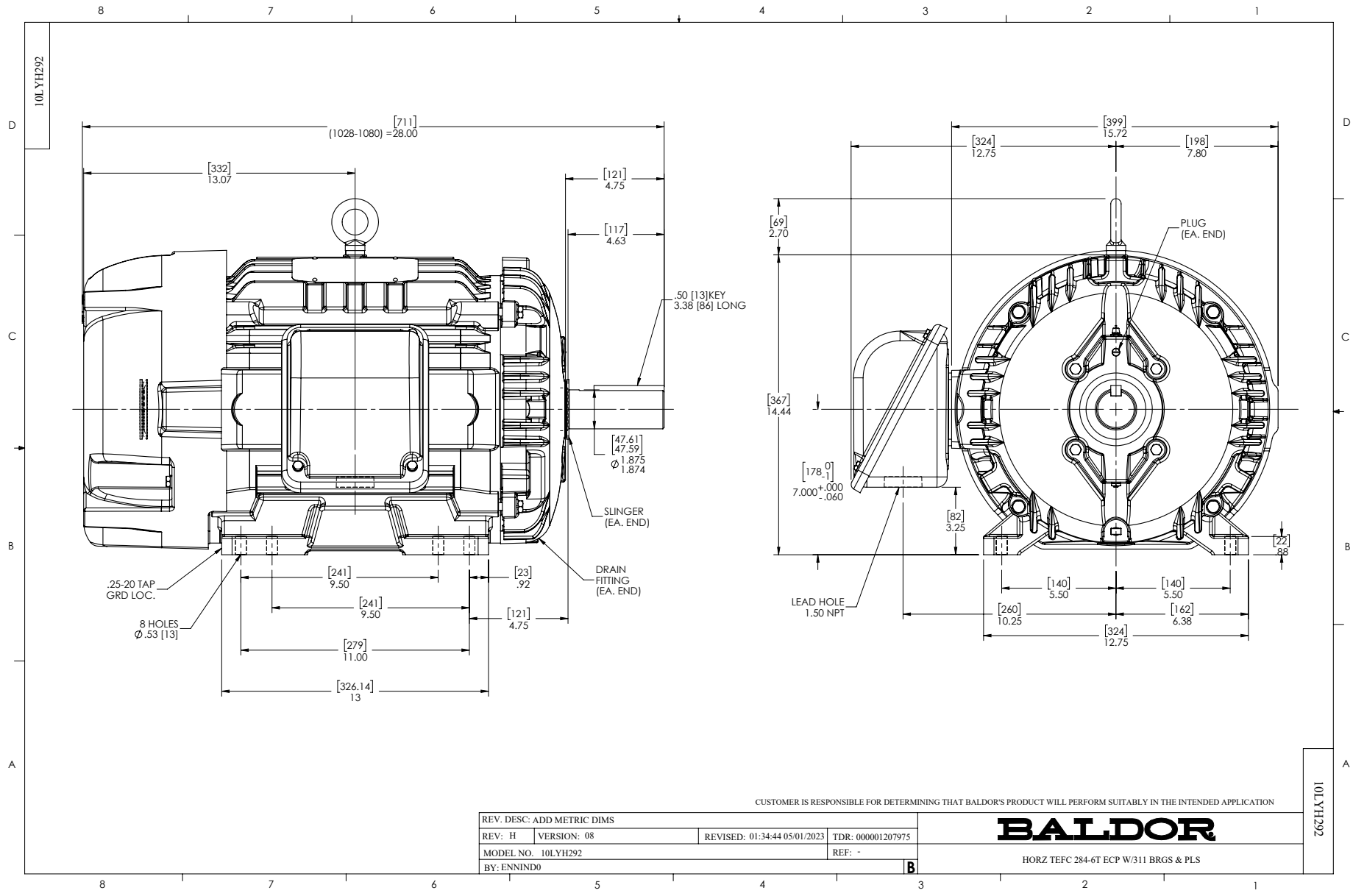
WINDING # 10WGZ438

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

Typical performance - not guaranteed values.

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

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12.75
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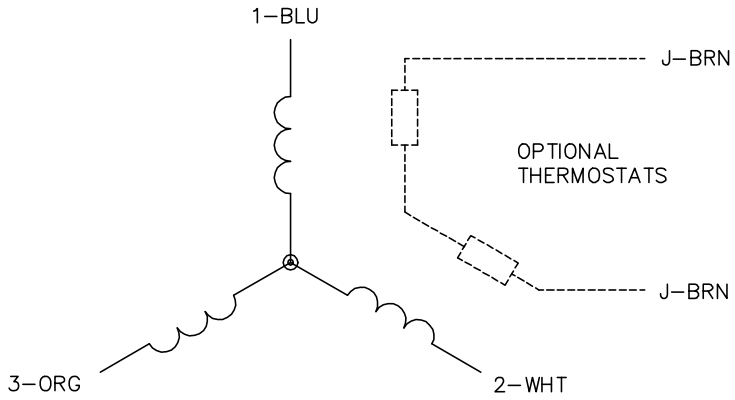
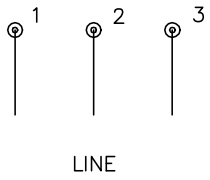
VERSION: 08
REVISED: 01:34:44 05/01/2023
TDR: 000001207975
MODEL NO. 10LYH292
REF: -
BY: ENNIND0
B
BALDOR
HORZ TEFC 284-6T ECP W/311 BRGS & PLS
10LYH292

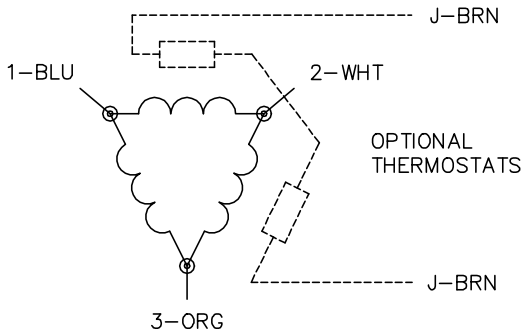
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



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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REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

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

SH 1 of 1