ABB BALDOR RELIANCE

Customer information packet

CXM28342T

30//25HP, 1770//1470RPM, 3PH, 60//50HZ, 286T
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	286TC
Frame Material	Iron
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	25.000 HP @ 50 HZ
	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	380.0 V @ 50 HZ
	230.0 V @ 60 HZ
	190.0 V @ 50 HZ
Agency Approvals	CSA EEV
	UL
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	6
Current @ Voltage	72.000 A @ 230.0 V
	36.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGZ506
Layout	10LYE251
Eff. date	09-18-2022
CD Diagram	CD0005
Poles	04
Leads	9#10
Proprietary	False
Created date	01-08-2021

Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	36.0 a
Insulation Class	B
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1060M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.61 IN
Power Factor	84
Product Family	Hazardous Location Motor
Pulley Face Code	C-Face
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1770 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP0887XPSLEV											
NO.				**CC**	010A						
S/N				**TEMP CODE**	T3C						
SPEC.	10-0000-1919			**INV.TYPE**	PWM						
CAT.NO.	CXM28342T			**C HP FR**	60	**C HP TO**	90				
HP	30//25			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	72/36			**MAG CUR**	27.6/13.8						
RPM	1770//1470			**MX RPM**	2700						
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	93.6				
SER.F.	1.00	**DES**	B	**SL HZ**	1	**WK2**	4.79				
FRAME	286TC	**RATING**	40C AMB-CONT								
	1.15SF ON SINEWAVE										
	NEMA MG-1 PT.5,IP54										

AC Induction Motor Performance Data
Record # 66668
Typical performance - not guaranteed values

Winding: 10WGZ506-R011	**Type:** 1060M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			30	**Full Load Torque**	88.64 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			72/36	**Breakdown Torque**	267 LB-FT
R.P.M.			1770	**Pull-up Torque**	116 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	142 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	215 A
Service Factor (S.F.)			1	**No-load Current**	13.5 A
NEMA Nom. Eff.	93.6	**Power Factor**	84	**Line-line Res. @ 25ºC**	0.234 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	62°C
				Locked-rotor Power Factor	29.7
				Rotor inertia	4.77 LB-FT2

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	48	71	80	84	85	85
Efficiency	91	94	94.3	94	93.7	92
Speed	1793	1787	1779	1772	1764	1753
Line amperes	15.8	21.1	27.8	35.6	44	53.5

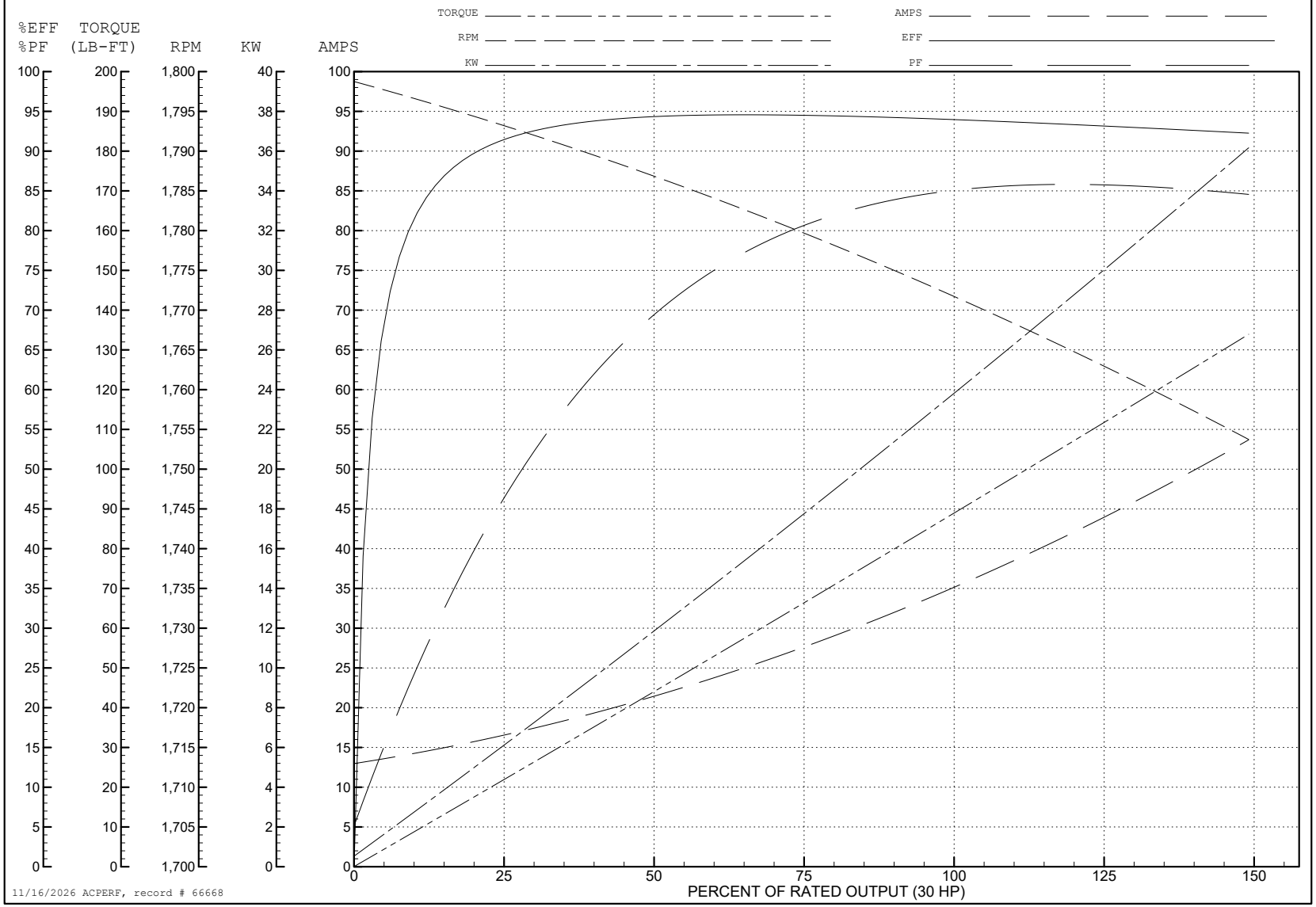
ABB Motors and Mechanical Inc.

WINDING # 10WGZ506

30 HP 3 PH 60 HZ 1770 RPM 460 V 1060M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=267 PU=116 LR=142 LRA=215



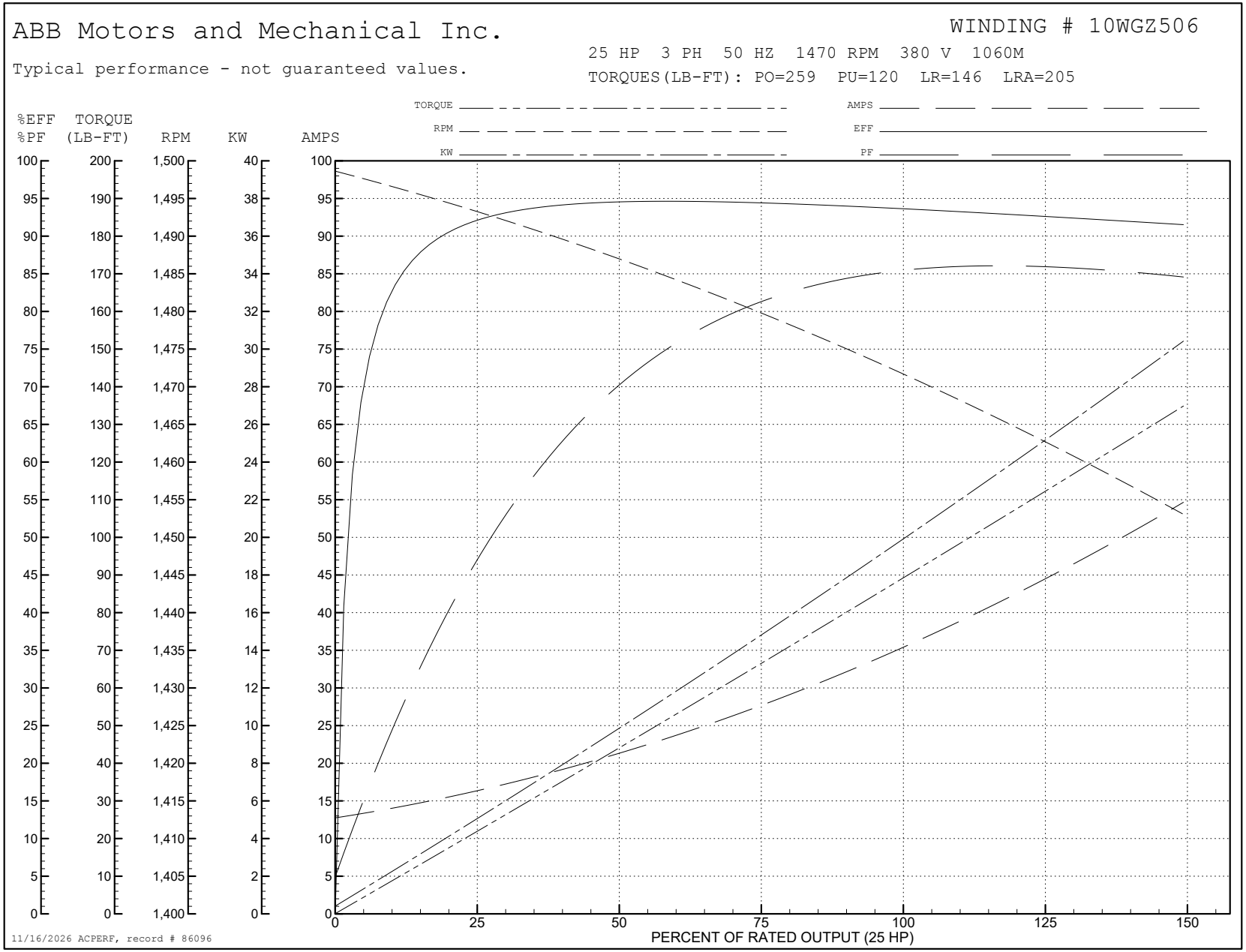
AC Induction Motor Performance Data
Record # 86096
Typical performance - not guaranteed values

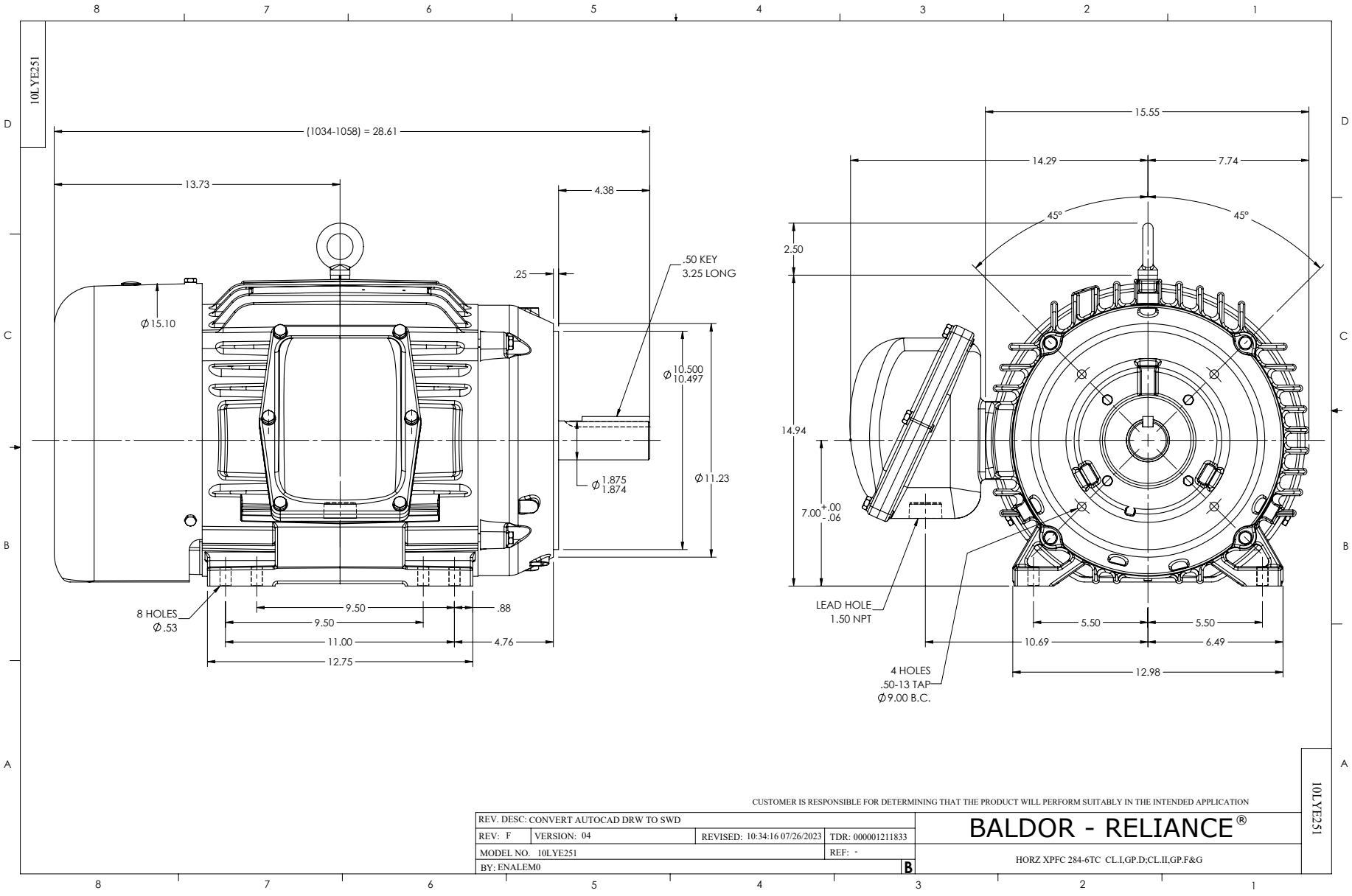
Winding: 10WGZ506-R021	**Type:** 1060M	**Enclosure:** XPFC

Nameplate Data				**380 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			25	**Full Load Torque**	88.9 LB-FT
Volts			190/380	**Start Configuration**	direct on line
Full Load Amps			72/36	**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.)			1.15	**No-load Current**	13.26 A
NEMA Nom. Eff.	92.6	**Power Factor**	84	**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

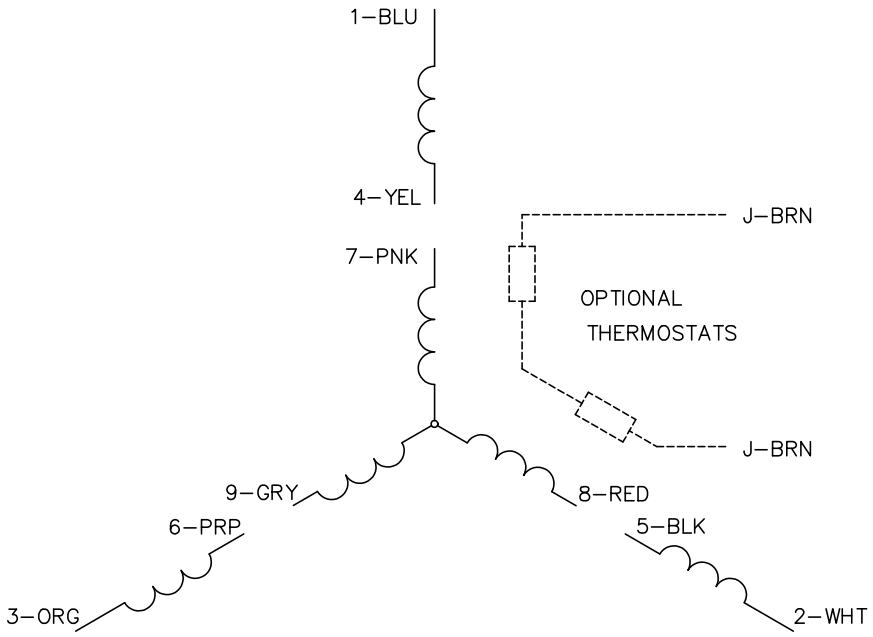
Load Characteristics 380 V, 50 Hz, 25 HP

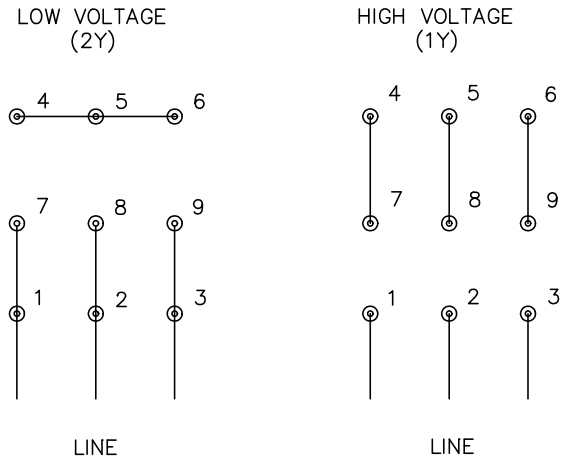
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	49	72	81	84	86	85	85
Efficiency	91.6	94.1	94.1	93.5	93.4	91.1	93.4
Speed	1493	1487	1479	1472	1464	1452	1467
Line amperes	15.58	21.02	27.86	35.89	44.62	54.56	41.1


ABB Motors and Mechanical Inc.
WINDING # 10WGZ506
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
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (25 HP)
11/16/2026 ACPERF, record # 86096


10LYE251
(1034-1058) = 28.61
13.73
4.38
.25
.50 KEY
3.25 LONG
Ø15.10
Ø 10.500
10.497
Ø 1.875
1.874
Ø11.23
8 HOLES
Ø.53
9.50
9.50
.88
11.00
4.76
12.75
15.55
14.29
7.74
45°
45°
2.50
14.94
7.00 +.00 -.06
LEAD HOLE
1.50 NPT
5.50
5.50
10.69
6.49
12.98
4 HOLES
.50-13 TAP
Ø9.00 B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD
REV: F
VERSION: 04
REVISED: 10:34:16 07/26/2023
TDR: 000001211833
MODEL NO. 10LYE251
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ XPFC 284-6TC CL.I,GP.D;CL.II,GP.F&G
10LYE251

CD0005





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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS