

BALDOR • RELIANCE

Customer information packet

DRX282524T-5

25HP, 3520RPM, 3PH, 60HZ, 284TS, XPFC, F1

Class - CLI GP C,D

Division - Division I

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.

10/4/2024 3:28:50 PM

Specifications

Enclosure	XPFC
Frame	284TS
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA EEV UL
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
Constant Torque Speed Range	6
Current @ Voltage	23.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	23.0 a
Insulation Class	F
Inverter Code	Inverter Duty

Part detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGZ277
Layout	10LYF284
Eff. date	07-17-2023
CD Diagram	CD0006
Poles	02
Leads	3#10
Proprietary	False
Created date	07-12-2019

IP Rating	NONE
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1048M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	27.23 IN
Power Factor	90
Product Family	Hazardous Location Motor
Pulley Face Code	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3520 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

NP1401XPSLEV

NO.		CC	010A	
S/N		TEMP CODE	T3C	
SPEC.	10-0000-0922		INV.TYPE	PWM
CAT.NO.	DRX282524T-5		C HP FR	60
HP	25		C HP TO	90
VOLTS	575		CT HZ FROM	6
AMPS	23		CT HZ TO	60
RPM	3520		VT HZ FROM	6
HZ	60	MAG CUR	5.5	
SER.F.	1.00	PH	3	MX RPM
FRAME	284TS	CL	F	5400
		NOM.EFF.	91.7	
		DES	B	
		SL HZ	1.3	WK2
		RATING	40C AMB-CONT	
	55C AMB @ 1.0 SF, 60C RISE			
	1.15SF ON SINEWAVE		NEMA MG-1 PT.5,IP55	

AC Induction Motor Performance Data

Record # 77477

Typical performance - not guaranteed values

Winding: 10WGZ277-R006		Type: 1048M		Enclosure: XPFC	
Nameplate Data			575 V, 60 Hz: Single Voltage Motor		
Rated Output (HP)	25	Full Load Torque	37.4 LB-FT		
Volts	575	Start Configuration	direct on line		
Full Load Amps	23	Breakdown Torque	101 LB-FT		
R.P.M.	3520	Pull-up Torque	41.3 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque	53 LB-FT	
NEMA Design Code	B	KVA Code	F	Starting Current	134 A
Service Factor (S.F.)	1	No-load Current	5.48 A		
NEMA Nom. Eff.	91.7	Power Factor	90	Line-line Res. @ 25°C	0.444 Ω
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	57°C	
S.F. Amps			Temp. Rise @ S.F. Load	72°C	
			Locked-rotor Power Factor	23.2	
			Rotor inertia	2.06 LB-FT ²	

Load Characteristics 575 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	69	83	88	90	90	90
Efficiency	87.9	91.5	92.2	91.7	90.9	89.7
Speed	3580	3563	3542	3520	3496	3468
Line amperes	8.03	12.3	17.4	22.7	28.5	34.9

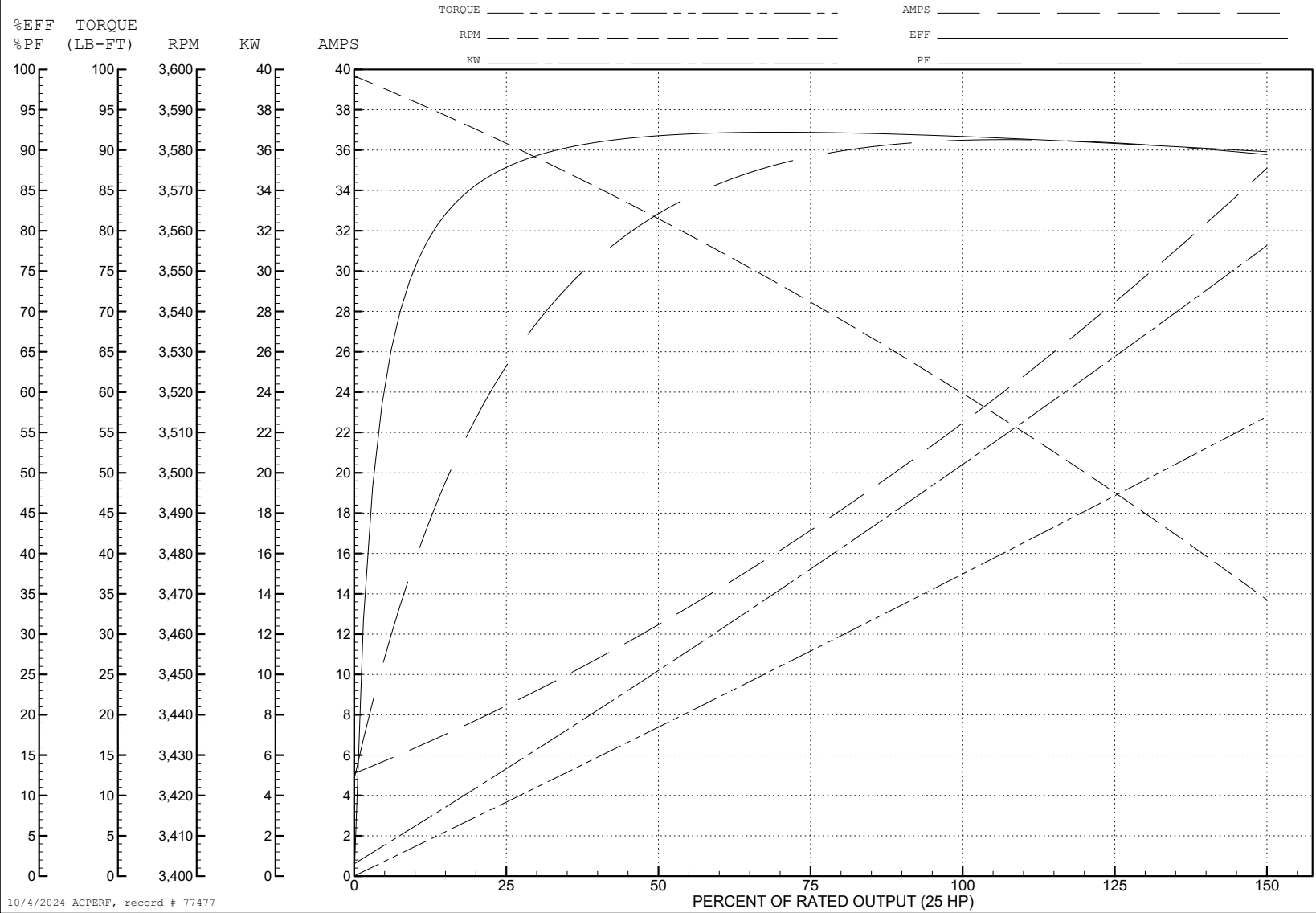
ABB Motors and Mechanical Inc.

WINDING # 10WGZ277

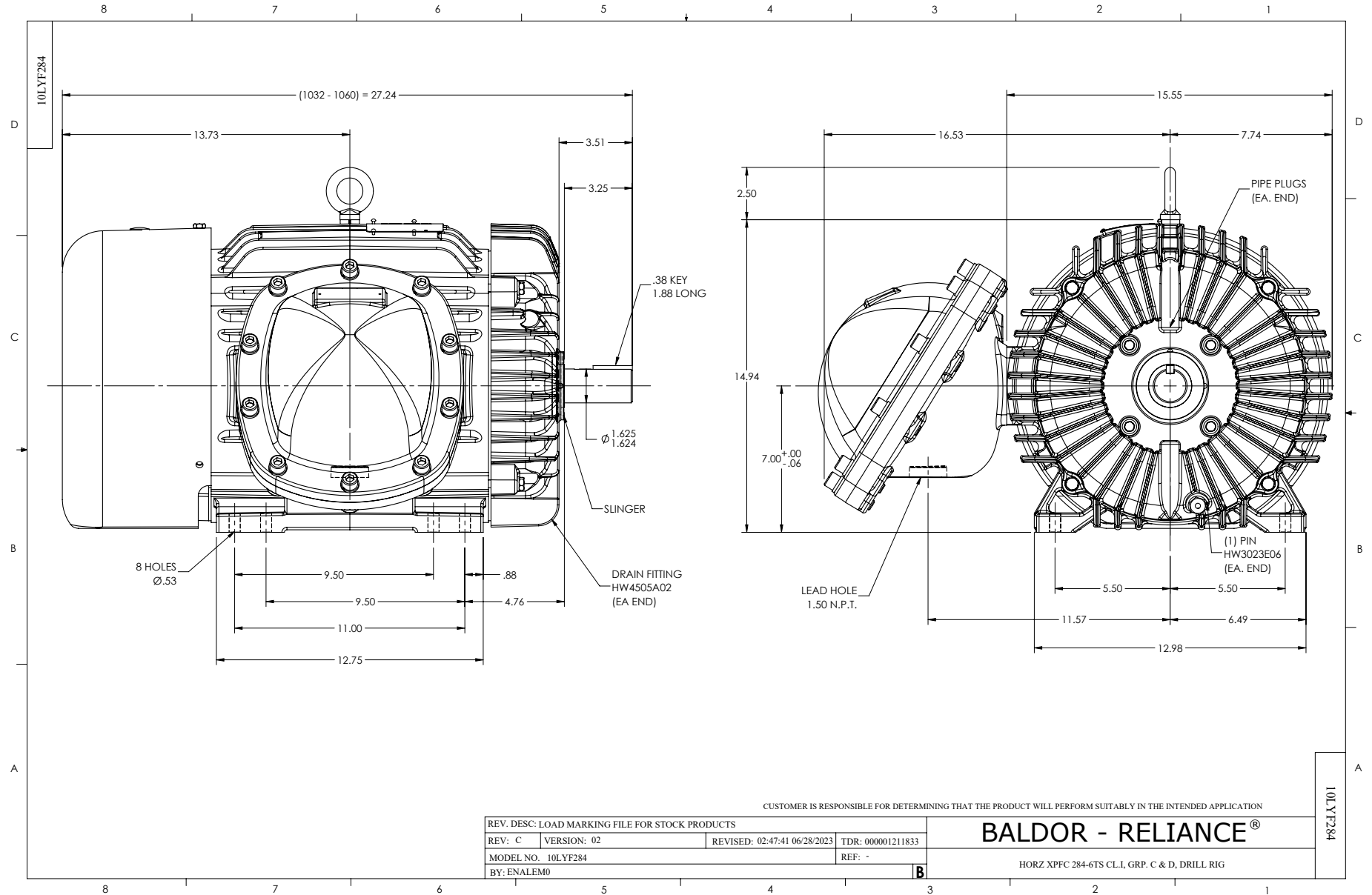
Typical performance - not guaranteed values.

25 HP 3 PH 60 HZ 3520 RPM 575 V 1048M

TORQUES (LB-FT): PO=101 PU=41.3 LR=53 LRA=134



10/4/2024 ACPERF, record # 77477



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