



Customer information packet

FDEM4103T-5

25HP, 1775RPM, 3PH, 60HZ, 284T, 1054M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	284T
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	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM NEMA_PREMIUM UR CSA EEV
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
Current @ Voltage	25.000 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	25.0 a
Insulation Class	F

Part detail

Revision	E
Type	AC
Mech. spec.	10J526
Base	
Status	PRD/A
Elec. spec.	10WGZ693
Layout	10LYJ526
Eff. date	08-01-2023
CD Diagram	CD0006
Poles	04
Leads	3#10 Y
Proprietary	False
Created date	06-14-2018

Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1054M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	27.76 IN
Power Factor	81
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No 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

NP3126L									
CAT.NO.	FDEM4103T-5								
SPEC.	10J526Z693G1								
HP	25								
VOLTS	575								
AMP	25								
RPM	1775								
FRAME	284T		HZ	60		PH	3		
SER.F.	1.15	CODE	J	DES	A	CL	F		
NEMA-NOM-EFF	93.6	PF	81						
RATING	40C AMB-CONT								
CC	010A		USABLE AT 208V				N/A		
DE	6311		ODE	6309					
ENCL	TEFC	SN							

AC Induction Motor Performance Data

Record # 67433

Typical performance - not guaranteed values

Winding: 10WGZ693-R001		Type: 1054M		Enclosure: TEFC	
Nameplate Data			575 V, 60 Hz: Single Voltage Motor		
Rated Output (HP)	25	Full Load Torque	74.06 LB-FT		
Volts	575	Start Configuration	direct on line		
Full Load Amps	25	Breakdown Torque	264 LB-FT		
R.P.M.	1775	Pull-up Torque	119 LB-FT		
Hz	60	Locked-rotor Torque	143 LB-FT		
NEMA Design Code	A	Starting Current	180 A		
Service Factor (S.F.)	1.15	No-load Current	11.06 A		
NEMA Nom. Eff.	93.6	Line-line Res. @ 25°C	0.361 Ω		
Rating - Duty	40C	Temp. Rise @ Rated Load	51°C		
S.F. Amps	AMB-CONT	Temp. Rise @ S.F. Load	62°C		
		Locked-rotor Power Factor	30.6		
		Rotor inertia	4.31 LB-FT ²		

Load Characteristics 575 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	43	65	76	81	84	85	83
Efficiency	88.3	92.7	93.8	94	93.7	93.4	93.8
Speed	1794	1789	1784	1778	1771	1764	1774
Line amperes	12.42	15.58	19.81	24.6	29.86	35.67	27.8

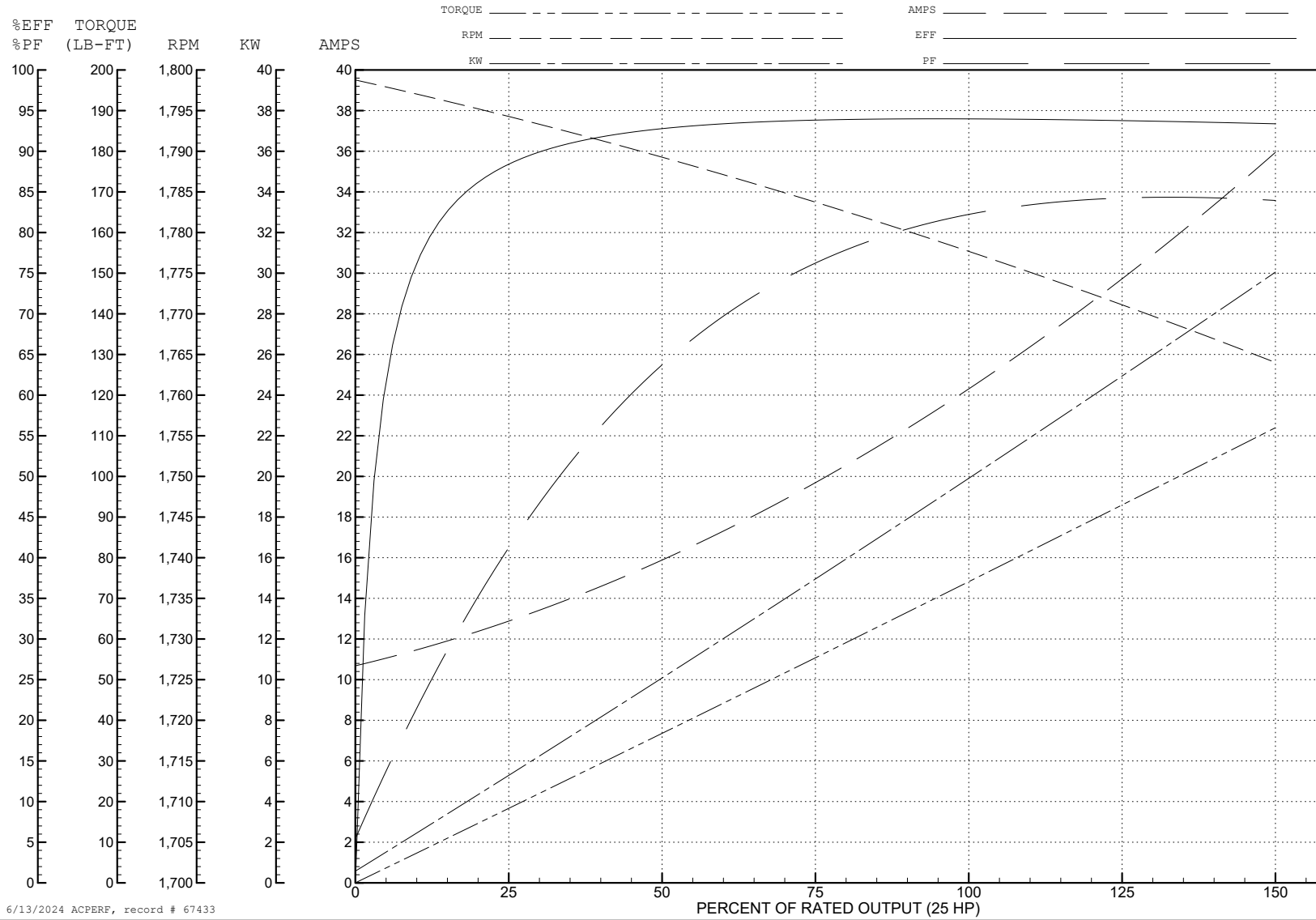
ABB Motors and Mechanical Inc.

WINDING # 10WGZ693

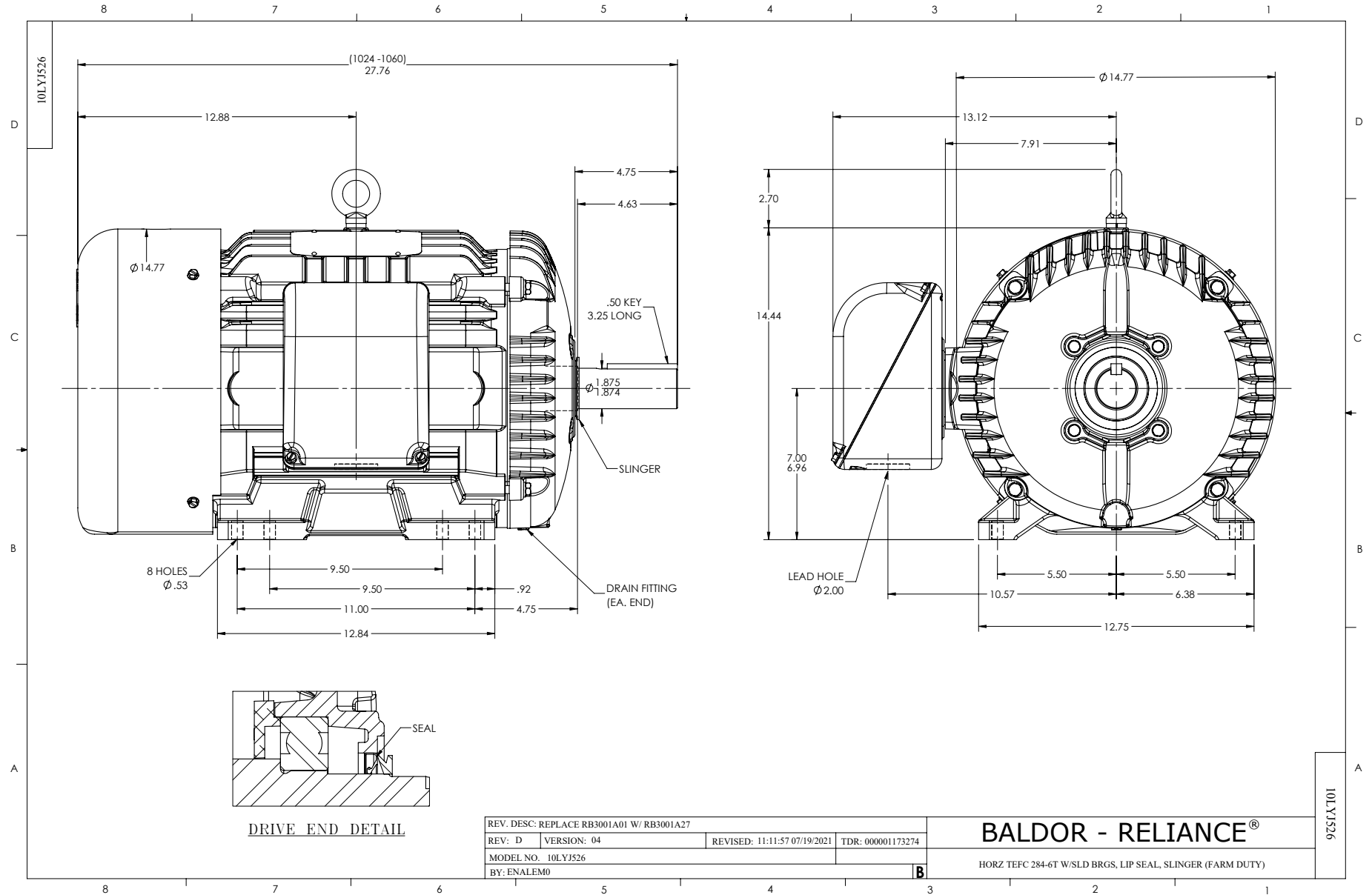
Typical performance - not guaranteed values.

25 HP 3 PH 60 HZ 1775 RPM 575 V 1054M

TORQUES (LB-FT): PO=264 PU=119 LR=143 LRA=180



6/13/2024 ACPERF, record # 67433



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

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

SH 1 of 1