ABB BALDOR RELIANCE

Customer information packet

CEM4107T-G

25HP, 3520RPM, 3PH, 60HZ, 284TSC, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	284TSC
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	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	NEMA PREMIUM
	UR
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
Current @ Voltage	62.000 A @ 208.0 V
	56.000 A @ 230.0 V
	28.000 A @ 460.0 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
Heater Indicator	No Heater

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGZ273
Layout	10LYJ281
Eff. date	06-27-2024
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	12-16-2019

High Voltage Full Load Amps	28.0 a
Insulation Class	H
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1048M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	26.39 IN
Power Factor	90
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	3520 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

NP3443LUA											
CAT.NO.	CEM4107T-G			**CUST. P/N**						**ENCL**	TEFC
SPEC.	10-0000587	**CC**	010A	**FRAME**	284TSC		**SER.NO.**				
HP	25		**CLASS**	H	**HZ**	60					
R.P.M.	3520		**PH.**	3	**DES.**	B					
VOLTS	230/460			**CODE**	F	**ODE BRG**	6309	**DE BRG**	6311		
AMPS	56/28										
RATING	40C AMB-CONT			**NEMA NOM. EFF.**	91.7		**GREASE**	POLYREX EM			
P.F.	90	**SER.F.**	1.15	**CT6-60H(10:1)VT3-60H(20:1**							
USABLE AT	50HZ 20HP 190/380V 56/28A			SF1.0							
VOLTS	**AMPS**		**MAX. SPACE HEATER TEMP.**								

AC Induction Motor Performance Data
Record # 45880
Typical performance - not guaranteed values

Winding: 10WGZ273-R001	**Type:** 1048M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			25	**Full Load Torque**	37.3 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			56/28	**Breakdown Torque**	103 LB-FT
R.P.M.			3520	**Pull-up Torque**	42.1 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	54 LB-FT
NEMA Design Code	B	**KVA Code**	F	**Starting Current**	171 A
Service Factor (S.F.)			1.15	**No-load Current**	6.99 A
NEMA Nom. Eff.	91.7	**Power Factor**	90	**Line-line Res. @ 25ºC**	0.29072 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	57°C
S.F. Amps				**Temp. Rise @ S.F. Load**	70°C
				Locked-rotor Power Factor	23
				Rotor inertia	2.06 LB-FT2

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	69	83	89	90	90	90	90
Efficiency	87.8	91.6	92.2	91.8	90.9	89.7	91.3
Speed	3580.1	3563.2	3542.7	3521.3	3497	3469.9	3507
Line amperes	10.1	15.4	21.7	28.3	35.7	43.5	32.7

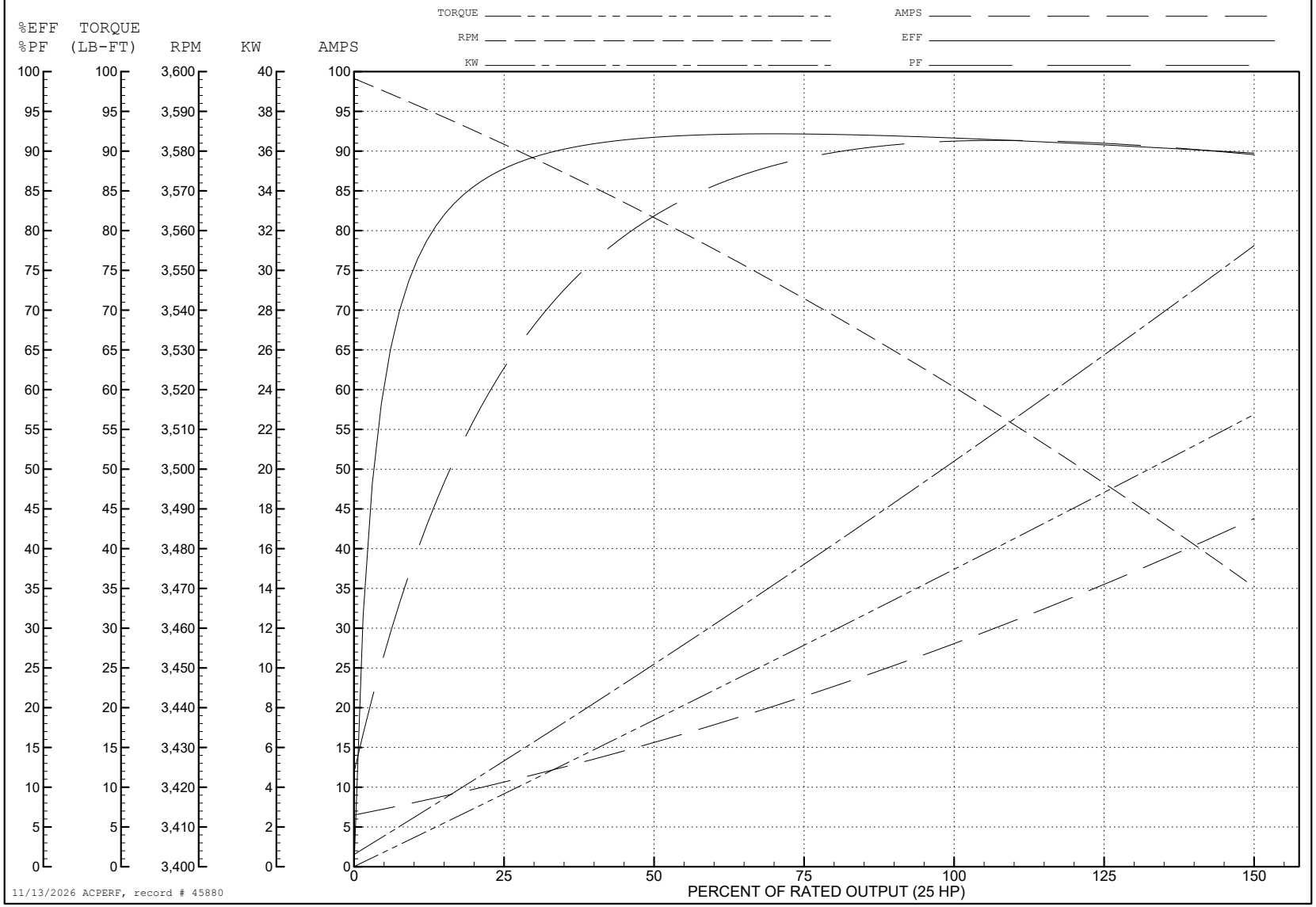
ABB Motors and Mechanical Inc.

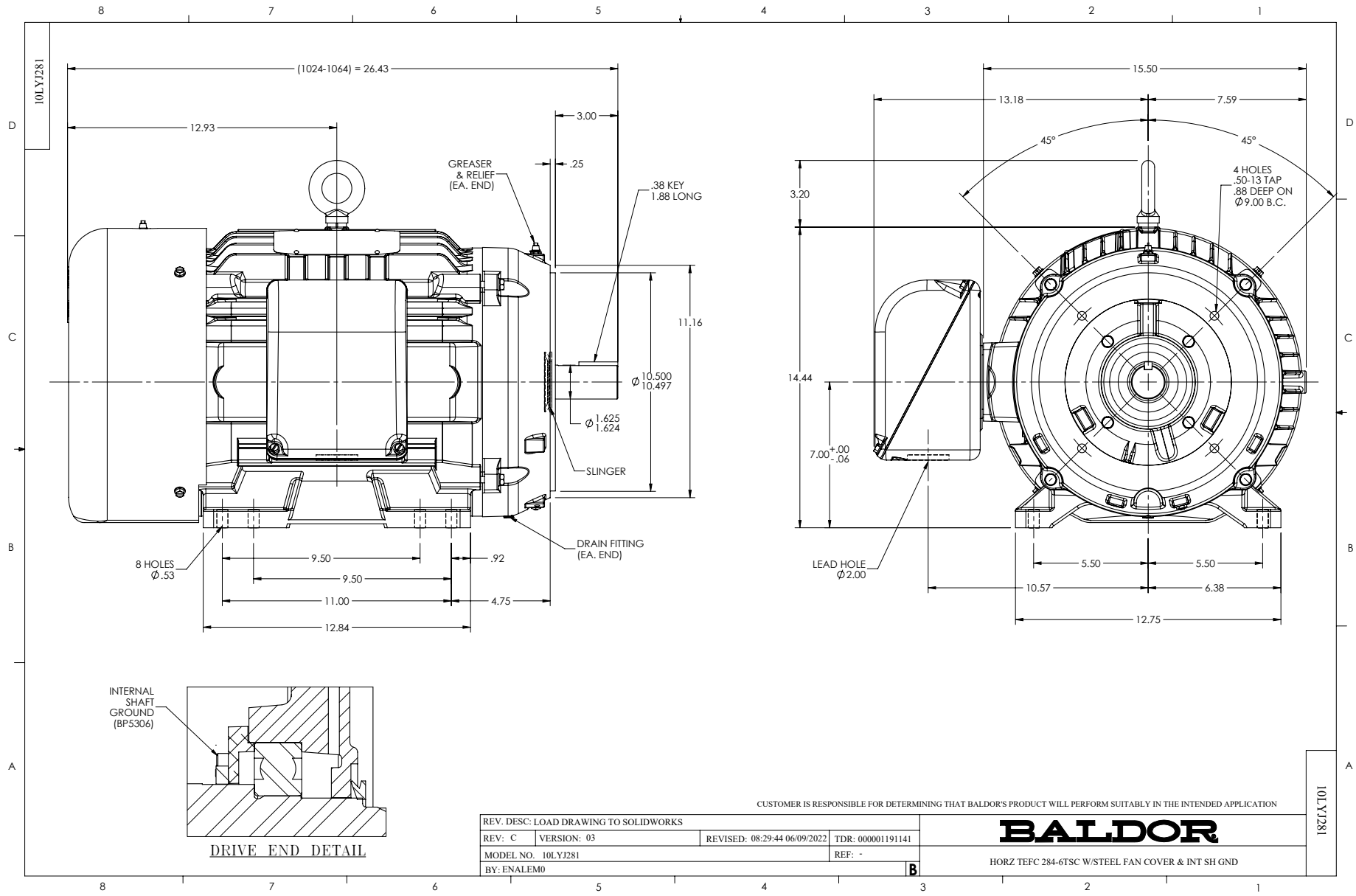
WINDING # 10WGZ273

25 HP 3 PH 60 HZ 3520 RPM 460 V 1048M

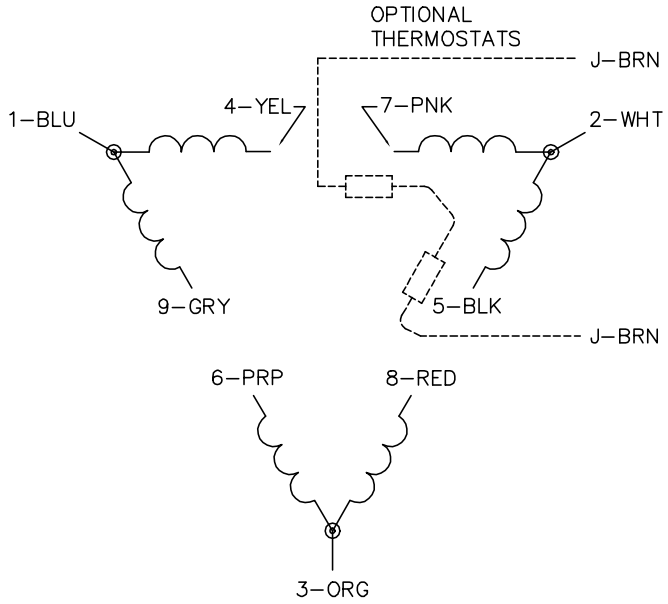
Typical performance - not guaranteed values.

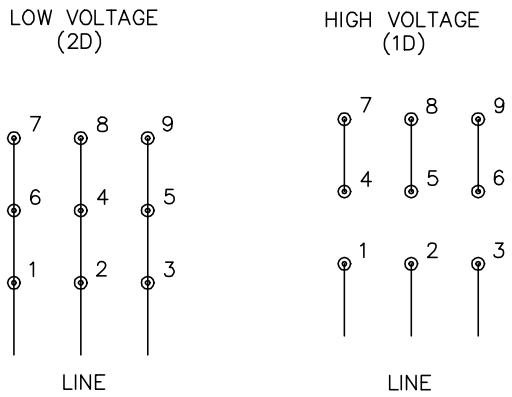
TORQUES(LB-FT): PO=103 PU=42.1 LR=54 LRA=171




10LYJ281
(1024-1064) = 26.43
12.93
3.00
.25
GREASER & RELIEF (EA. END)
.38 KEY 1.88 LONG
11.16
Ø 10.500 10.497
Ø 1.625 1.624
SLINGER
DRAIN FITTING (EA. END)
8 HOLES Ø.53
9.50
9.50
11.00
.92
4.75
12.84
15.50
13.18
7.59
45°
45°
4 HOLES .50-13 TAP .88 DEEP ON Ø9.00 B.C.
3.20
14.44
7.00 +.00 -.06
LEAD HOLE Ø2.00
5.50
5.50
10.57
6.38
12.75
INTERNAL SHAFT GROUND (BP5306)
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: C
VERSION: 03
REVISED: 08:29:44 06/09/2022
TDR: 000001191141
MODEL NO. 10LYJ281
REF: -
BY: ENALEM0
B
BALDOR
HORZ TEFC 284-6TSC W/STEEL FAN COVER & INT SH GND
10LYJ281

CD0180





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.

CD0180

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1