

ABB BALDOR RELIANCE III

Customer information packet

CEM4107T-G

25HP, 3520RPM, 3PH, 60HZ, 284TSC, TEFC, F1

Class - None

Division - Not Applicable

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. @ 25°C		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

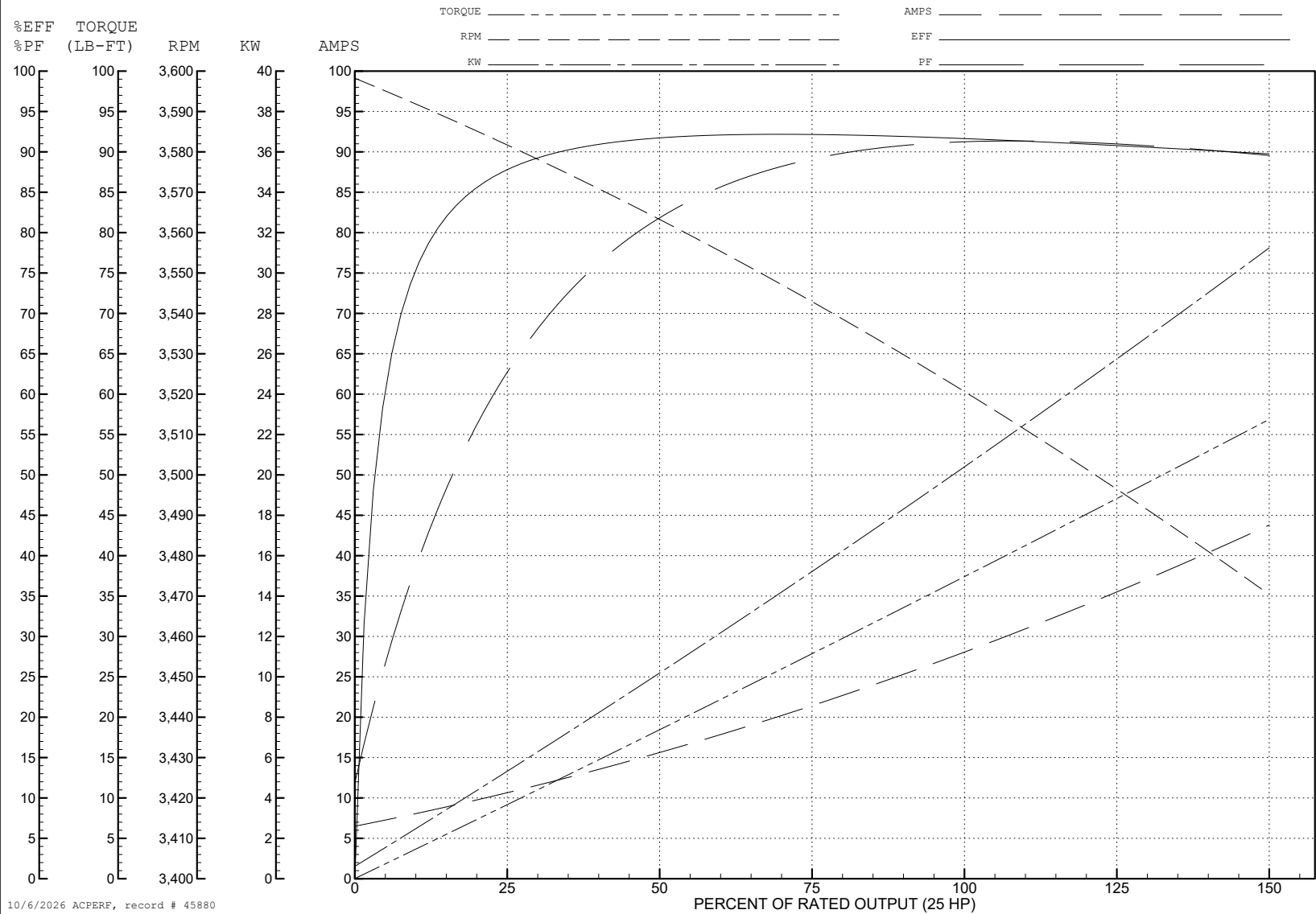
ABB Motors and Mechanical Inc.

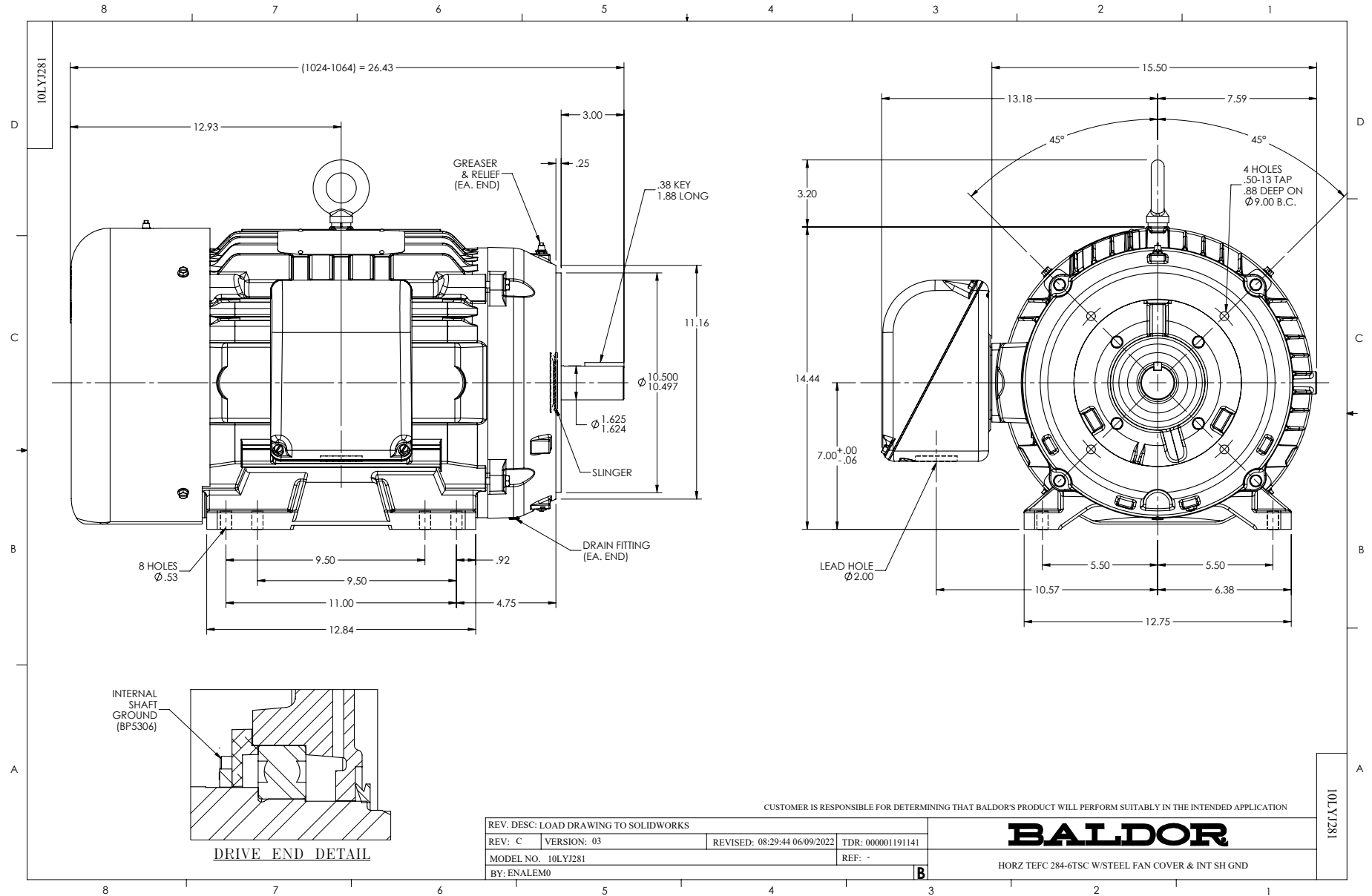
WINDING # 10WGZ273

Typical performance - not guaranteed values.

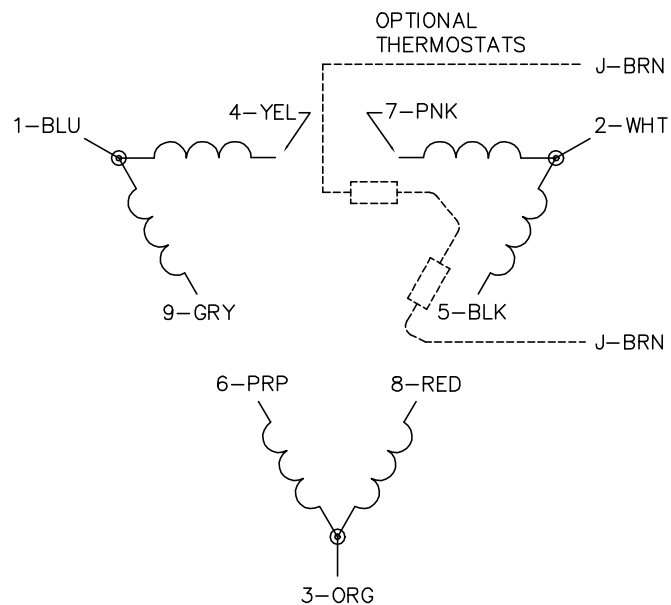
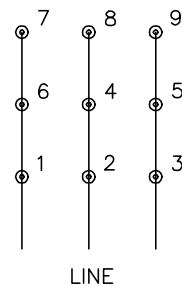
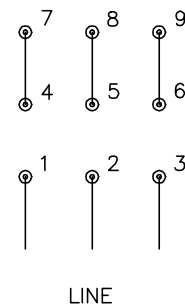
25 HP 3 PH 60 HZ 3520 RPM 460 V 1048M

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





CD0180


LOW VOLTAGE
(2D)

HIGH VOLTAGE
(1D)

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: ENBRIRO

MTL: —


BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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