

ABB BALDOR RELIANCE III

Customer information packet

VLECP84103T-4

56M 4P TEFC VER 284LP IEEE841 32-8 DRIP

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	284LP
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	NEMA PREMIUM
	UR
	CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	1
Current @ Voltage	30.000 A @ 460.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Front Shaft Indicator	Standard
Haz Area Temp Code	T3C

Part Detail

Revision	G
Type	AC
Mech. spec.	10K389
Base	
Status	PRD/A
Elec. spec.	10WGZ580
Layout	10LYK389
Eff. date	10-08-2025
CD Diagram	CD0006
Poles	04
Leads	3#10
Proprietary	False
Created date	03-25-2019

Heater Indicator	No Heater
High Voltage Full Load Amps	30.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP56
KVA Code	F
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 10 AWG
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Motor Type	1056M
Mounting Arrangement	V1
Number of Poles	4
Overall Length	36.31 IN
Power Factor	85
Product Family	Chem Process S/P 32-8 IEEE 841
Pulley End Bearing Type	Ball
Pulley Face Code	P-Base
Pulley Shaft Indicator	P-Base Groove & Key
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

Winding Thermal 2

None

Nameplate
NP4332

CAT.NO.	VLECP84103T-4			P/N		ENCLOSURE			TEFC					
SPEC.	10K389Z580G1			CC	010A	FRAME	284LP	S/N						
HP	25			CLASS	F	HZ	60	ODE BRG	7309	DE BRG	6213			
RPM	1770	RPM MAX	2700	PH	3	DES	B	D.E. BRG.	65BC02X30X					
VOLT	460			KVA-CODE	F		O.D.E. BRG.	45BT03X30X						
AMP	30			MOTOR WEIGHT			437	GREASE	POLYREX EM					
RATING	40C AMB-CONT			MAX. KVAR			5.9	BLANK						
NEMA-NOM-EFF	93.6	# OF ROTOR BARS			40	SER.F.	1.15	IP	56					
G.MIN.EFF	92.4	# OF STATOR SLOTS			48	PF	85	INV.TYPE	PWM					
TEMP CODE	T3C	INVERTER-TEMP-CODE			180									
TEMP =	160	C HP FR	60	C HP TO	90									
CT HZ FROM	1	CT HZ TO	60											
HTR-VOLTS		HTR-AMPS		HTR-WATTS				MAX. SPACE HEATER TEMP.			VT HZ FROM	O	VT HZ TO	60

AC Induction Motor Performance Data

Record # 61560

Typical performance - not guaranteed values

Winding: 10WGZ580-R001			Type: 1056M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		25	Full Load Torque		74.31 LB-FT	
Volts		460	Start Configuration		direct on line	
Full Load Amps		30	Breakdown Torque		197 LB-FT	
R.P.M.		1770	Pull-up Torque		91.4 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque	115 LB-FT	
NEMA Design Code	B	KVA Code	F	Starting Current	173 A	
Service Factor (S.F.)		1.15	No-load Current		10.4 A	
NEMA Nom. Eff.	93.6	Power Factor	85	Line-line Res. @ 25°C	0.29877 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		54°C	
S.F. Amps			Temp. Rise @ S.F. Load		67°C	
			Locked-rotor Power Factor		30.3	
			Rotor inertia		4.46 lb-ft²	

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	51	73	81	85	86	86	86
Efficiency	91	93.8	94.1	93.7	92.9	91.8	93.2
Speed	1792.8	1785.5	1778.9	1770.7	1762.4	1751.5	1766
Line amperes	12.5	17	22.9	29.5	36.5	44.7	33.7

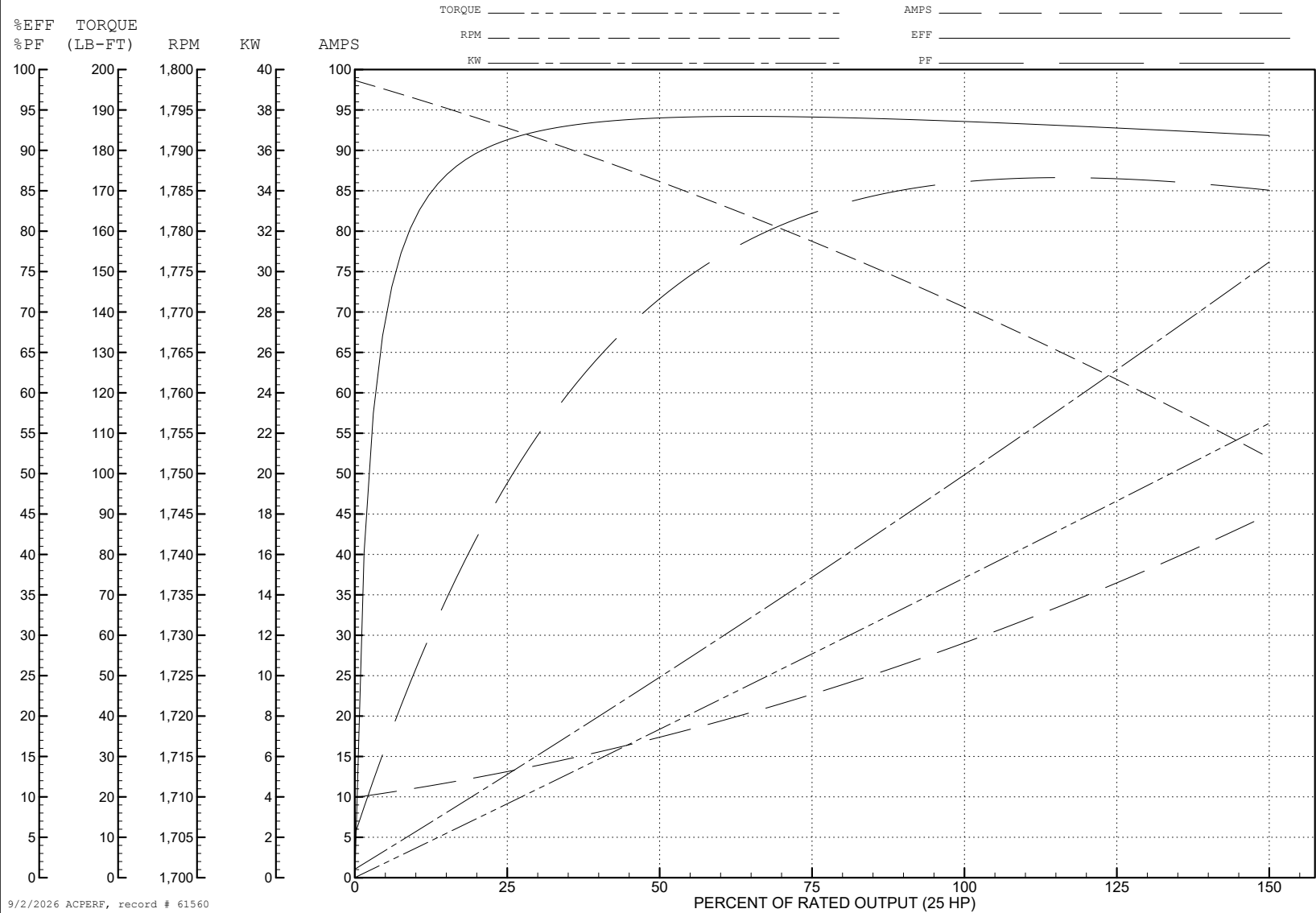
ABB Motors and Mechanical Inc.

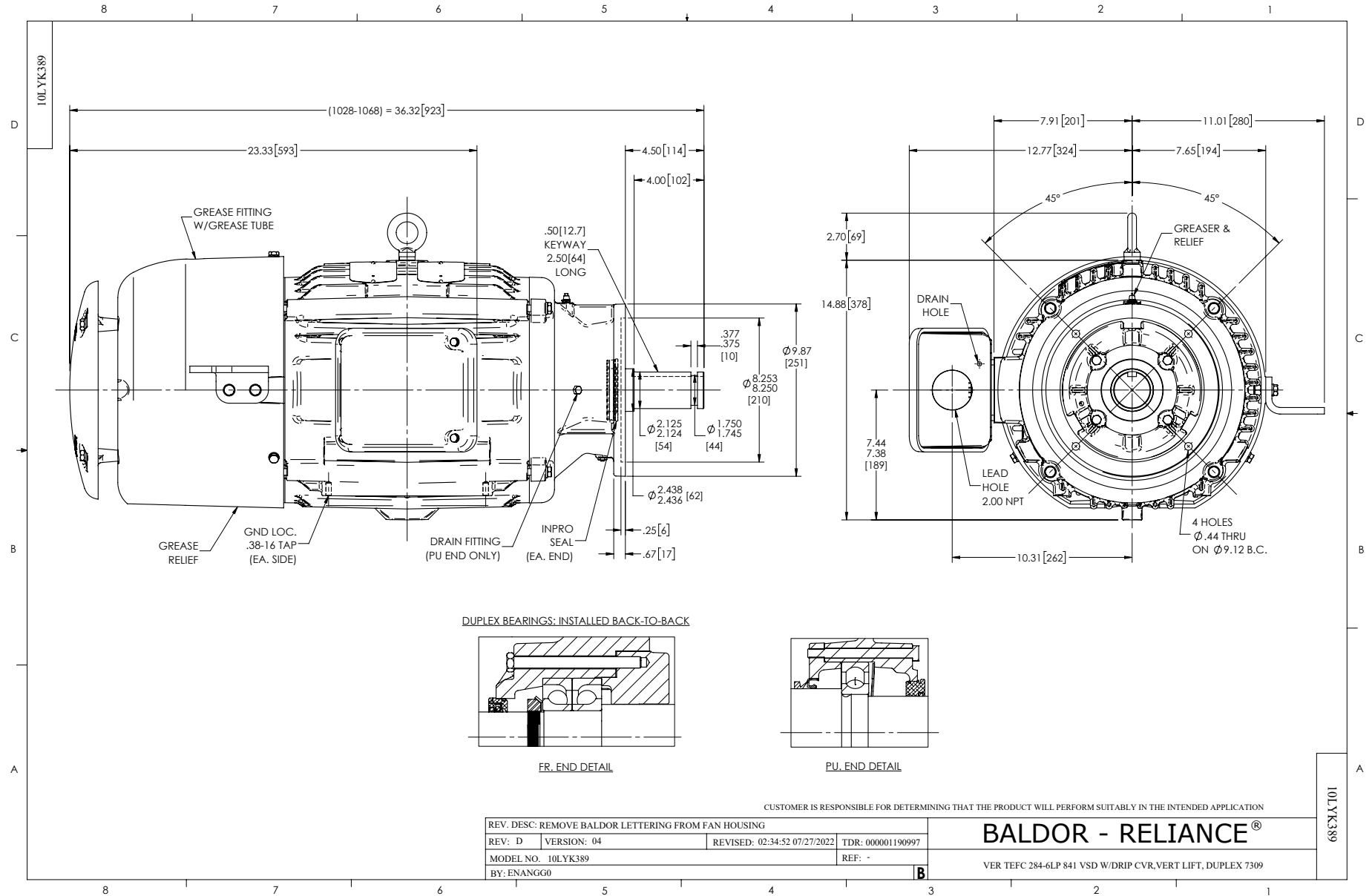
WINDING # 10WGZ580

Typical performance - not guaranteed values.

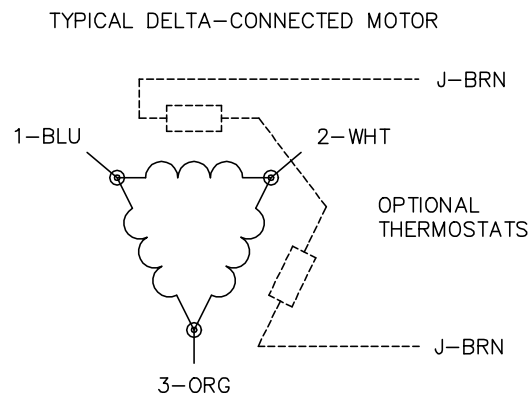
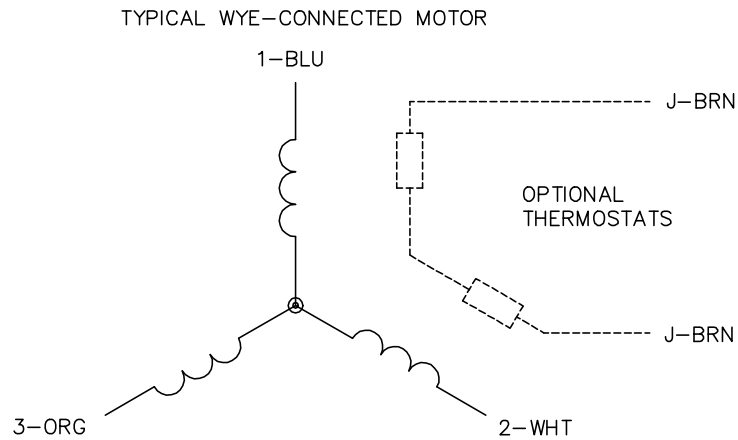
25 HP 3 PH 60 HZ 1770 RPM 460 V 1056M

TORQUES (LB-FT): PO=197 PU=91.4 LR=115 LRA=173





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