ABB BALDOR RELIANCE

Customer information packet

VLECP84103T-4

56M 4P TEFC VER 284LP IEEE841 32-8 DRIP
Class - CLI GP A,B,C,D
Division - Division II

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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. @ 25ºC**	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

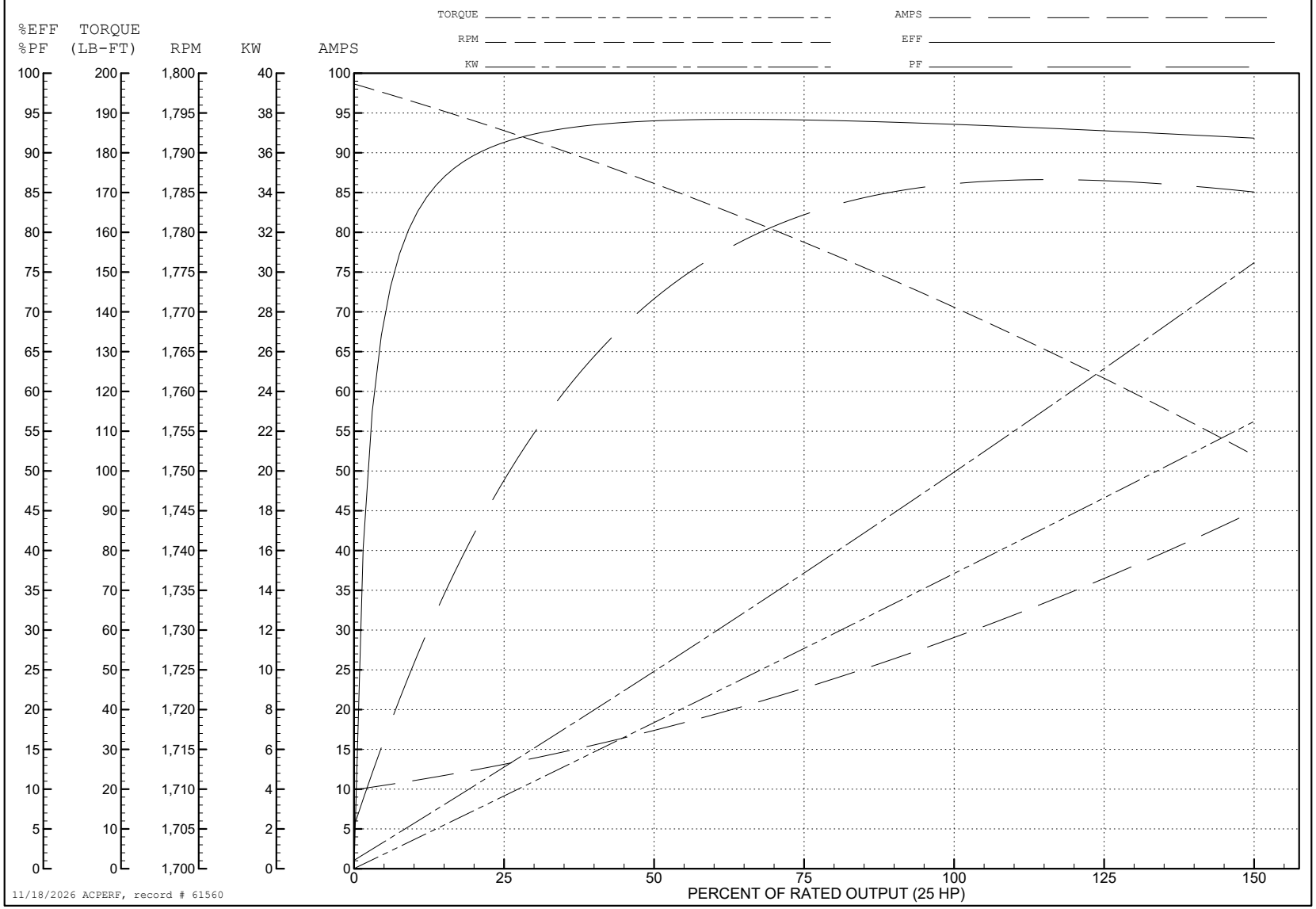
ABB Motors and Mechanical Inc.

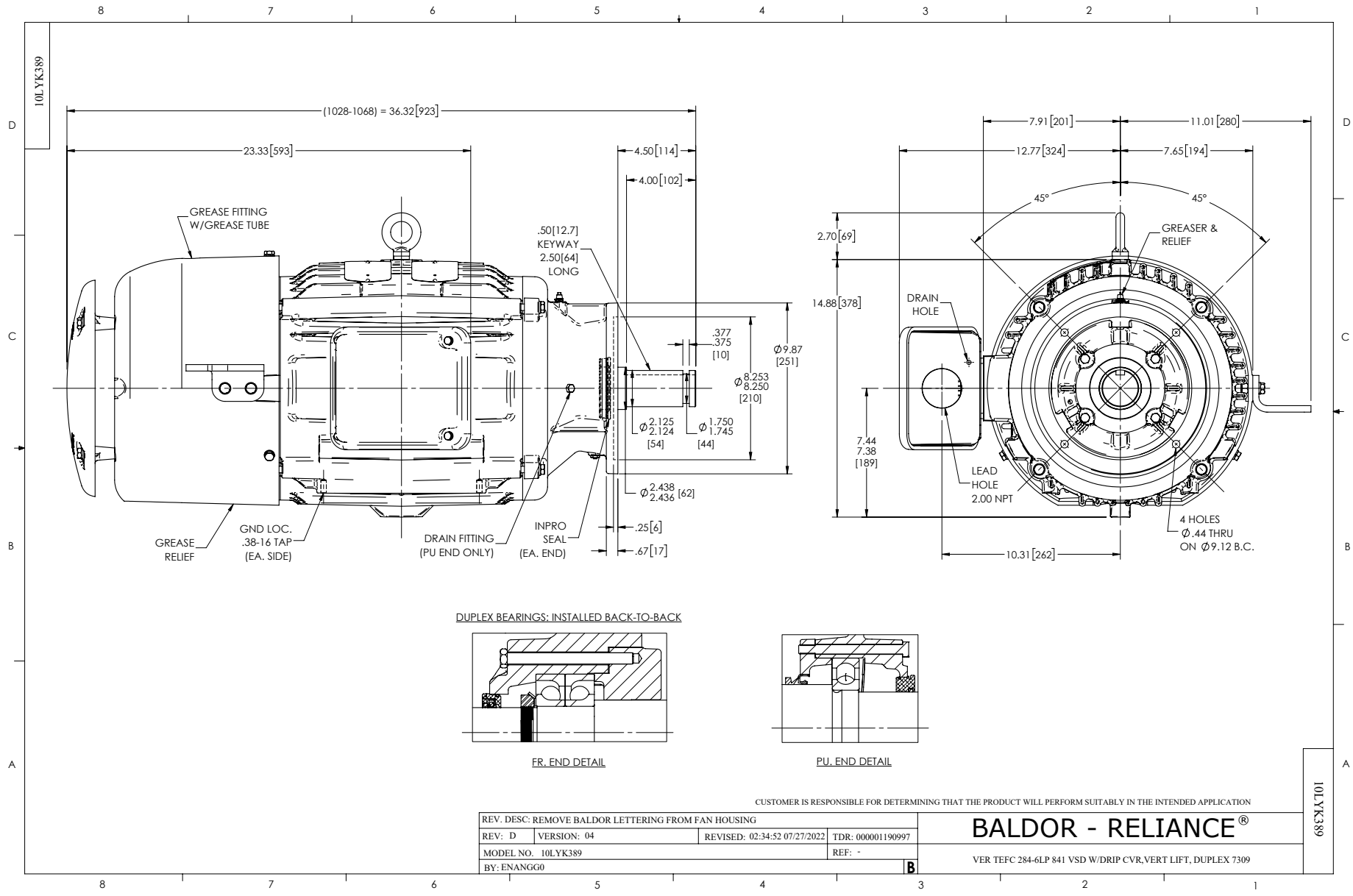
WINDING # 10WGZ580

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

Typical performance - not guaranteed values.

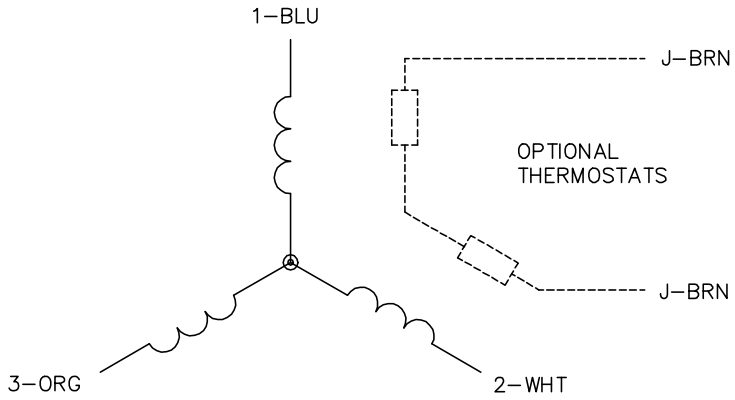
TORQUES(LB-FT): PO=197 PU=91.4 LR=115 LRA=173

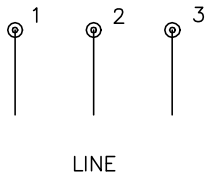



10LYK389
(1028-1068) = 36.32[923]
23.33[593]
4.50[114]
4.00[102]
GREASE FITTING W/GREASE TUBE
.50[12.7] KEYWAY 2.50[64] LONG
.377 .375 [10]
Ø9.87 [251]
Ø8.253 8.250 [210]
Ø2.125 2.124 [54]
Ø1.750 1.745 [44]
Ø2.438 2.436 [62]
.25[6]
.67[17]
GREASE RELIEF
GND LOC. .38-16 TAP (EA. SIDE)
DRAIN FITTING (PU END ONLY)
INPRO SEAL (EA. END)
7.91[201]
11.01[280]
12.77[324]
7.65[194]
45°
45°
2.70[69]
14.88[378]
GREASER & RELIEF
DRAIN HOLE
7.44 7.38 [189]
LEAD HOLE 2.00 NPT
4 HOLES Ø.44 THRU ON Ø9.12 B.C.
10.31[262]
DUPLEX BEARINGS: INSTALLED BACK-TO-BACK
FR. END DETAIL
PU. END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: REMOVE BALDOR LETTERING FROM FAN HOUSING
REV: D VERSION: 04 REVISED: 02:34:52 07/27/2022 TDR: 000001190997
MODEL NO. 10LYK389 REF: -
BY: ENANGG0 B
BALDOR - RELIANCE®
VER TEFC 284-6LP 841 VSD W/DRIP CVR,VERT LIFT, DUPLEX 7309
10LYK389

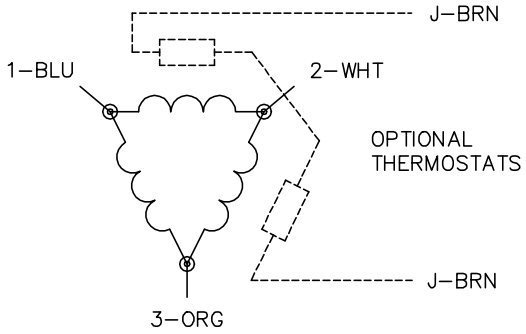
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



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			BALDOR - RELIANCE®
REV. LTR: E	VERSION: 01	TDR: 000001099922	
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED
MTL: –			SH 1 of 1