ABB BALDOR RELIANCE

Customer information packet

VLECP84108T-4

30HP, 3525RPM, 3PH, 60HZ, 286LP, 1048M, TEFC, W
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	286LP
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	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	UR
	CCSA US
	CSA EEV
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	6
Current @ Voltage	34.000 A @ 460.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	Standard
Haz Area Temp Code	T3
Heater Indicator	No Heater

Part Detail

Revision	K
Type	AC
Mech. spec.	10K389
Base	
Status	PRD/A
Elec. spec.	10WGZ522
Layout	10LYK389
Eff. date	10-08-2025
CD Diagram	CD0006
Poles	02
Leads	3#10
Proprietary	False
Created date	03-01-2017

High Voltage Full Load Amps	34.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	G
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 10 AWG
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Motor Type	1048M
Mounting Arrangement	W6
Number of Poles	2
Overall Length	36.31 IN
Power Factor	90
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 Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3525 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	NONE (OLD)
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor

Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP4332

CAT.NO.	VLECP84108T-4			**P/N**				**ENCLOSURE**	TEFC			
SPEC.	10K389Z522G1		**CC**	010A	**FRAME**	286LP		**S/N**				
HP	30			**CLASS**	F	**HZ**	60	**ODE BRG**	7309	**DE BRG**	6213	
RPM	3525	**RPM MAX**	5400	**PH**	3	**DES**	B	**D.E. BRG.**	65BC02X30X			
VOLT	460			**KVA-CODE**	G			**O.D.E. BRG.**	45BT03X30X			
AMP	34				**MOTOR WEIGHT**	592		**GREASE**	POLYREX EM			
RATING	40C AMB-CONT				**MAX. KVAR**	3.7		**BLANK**				
NEMA-NOM-EFF	91.7	**# OF ROTOR BARS**	28		**SER.F.**	1.15	**IP**	56				
G.MIN.EFF	90.2	**# OF STATOR SLOTS**	36	**PF**	90			**INV.TYPE**	PWM			
TEMP CODE	T3	**INVERTER-TEMP-CODE**	200									
TEMP =	200	**C HP FR**	60	**C HP TO**	90							
CT HZ FROM	6	**CT HZ TO**	60									
HTR-VOLTS		**HTR-AMPS**		**HTR-WATTS**		**MAX. SPACE HEATER TEMP.**				**VT HZ FROM**	3	**VT HZ TO** 60

AC Induction Motor Performance Data
Record # 55456
Typical performance - not guaranteed values

Winding: 10WGZ522-R001	**Type:** 1048M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			30	**Full Load Torque**	44.8 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			34	**Breakdown Torque**	135 LB-FT
R.P.M.			3525	**Pull-up Torque**	47 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	65.2 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	212 A
Service Factor (S.F.)			1.15	**No-load Current**	8.74 A
NEMA Nom. Eff.	91.7	**Power Factor**	90	**Line-line Res. @ 25ºC**	0.24052 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	69°C
S.F. Amps				**Temp. Rise @ S.F. Load**	85°C
				Locked-rotor Power Factor	23.2
				Rotor inertia	2.06 lb-ft²

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	67	83	88	90	90	90	90
Efficiency	87	91.3	92	91.7	90.9	89.7	91.2
Speed	3583	3565.7	3547.3	3526.7	3504.4	3479.1	3513
Line amperes	12.4	18.7	26.1	34.1	43.1	52.5	39.5

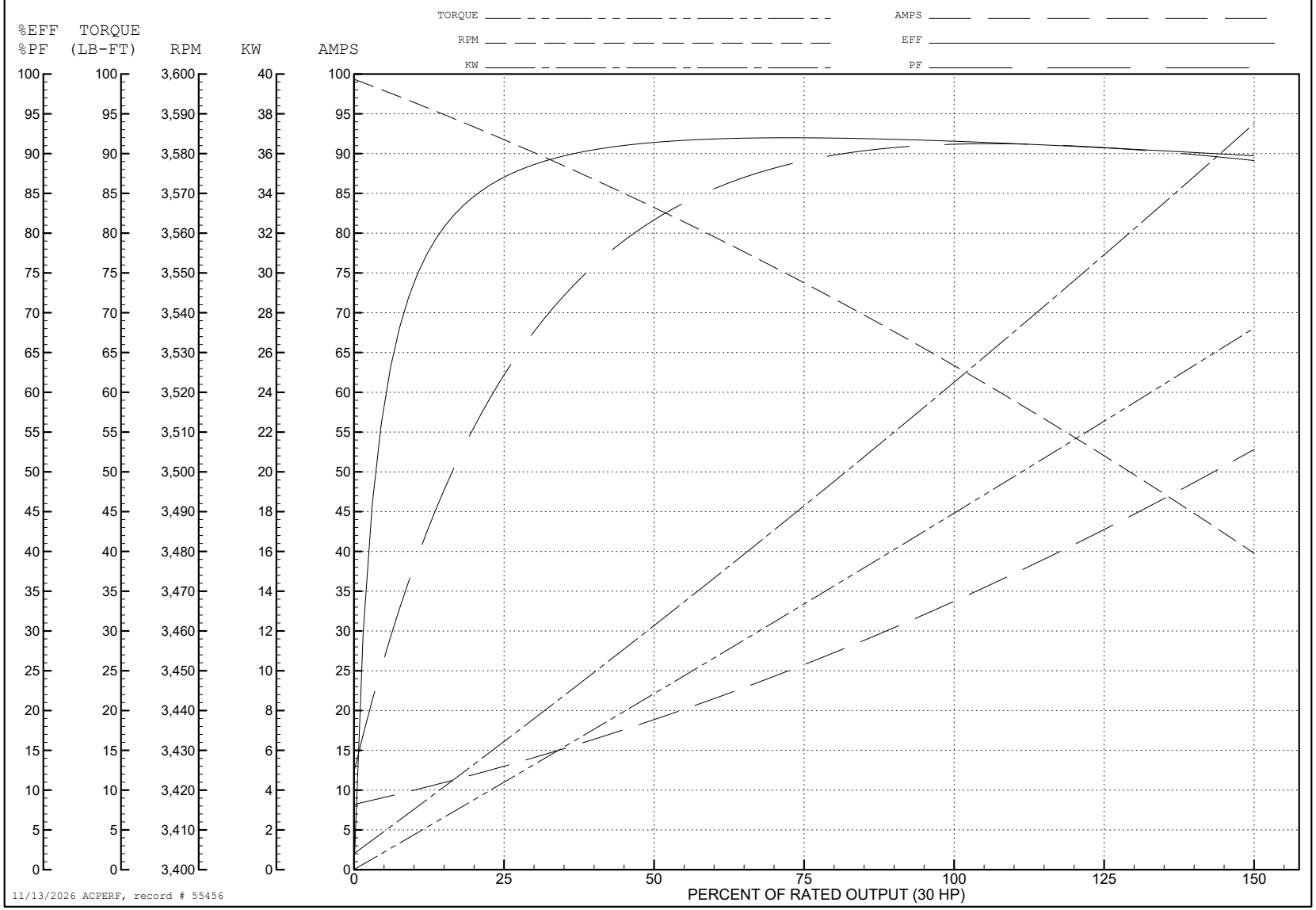
ABB Motors and Mechanical Inc.

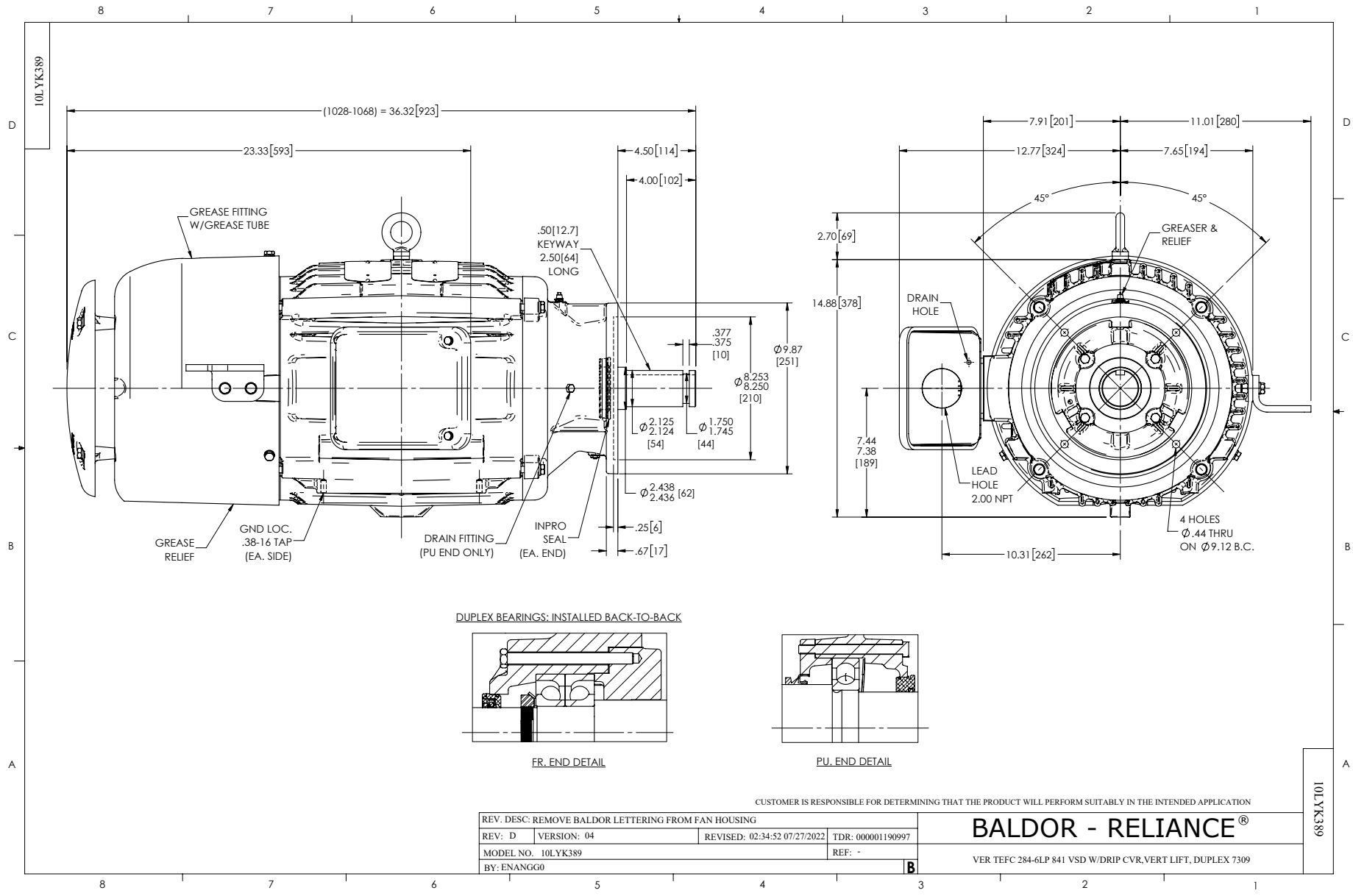
WINDING # 10WGZ522

30 HP 3 PH 60 HZ 3525 RPM 460 V 1048M

Typical performance - not guaranteed values.

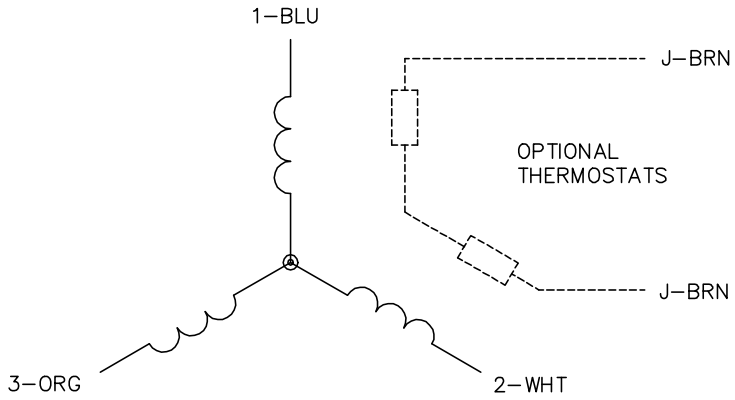
TORQUES(LB-FT): PO=135 PU=47 LR=65.2 LRA=212

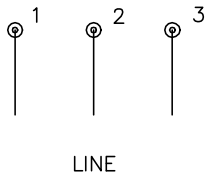



10LYK389
(1028-1068) = 36.32[923]
23.33[593]
4.50[114]
4.00[102]
GREASE FITTING W/GREASE TUBE
.50[12.7] KEYWAY 2.50[64] LONG
.377 .375 [10]
Ø9.87 [251]
Ø8.253 8.250 [210]
Ø2.125 2.124 [54]
Ø1.750 1.745 [44]
Ø2.438 2.436 [62]
.25[6]
.67[17]
GREASE RELIEF
GND LOC. .38-16 TAP (EA. SIDE)
DRAIN FITTING (PU 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

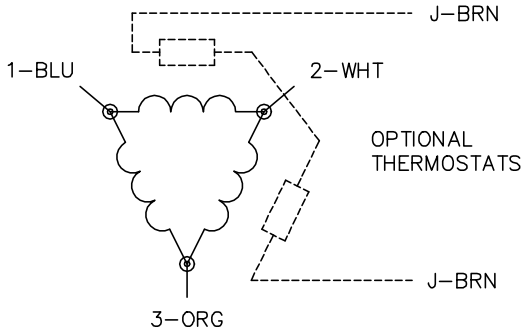
CD0006

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