

ABB BALDOR RELIANCE III

Customer information packet

VLECP83661T-4

36M 4P TEFC VER 182LP CHEM PROC, SP#32-8

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	182LP
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	3.000 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 CSA
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	0-
Current @ Voltage	4.100 A @ 460.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3C

Part Detail

Revision	J
Type	AC
Mech. spec.	06J487
Base	
Status	PRD/A
Elec. spec.	06WGX189
Layout	06LYJ487
Eff. date	08-05-2026
CD Diagram	CD0006
Poles	04
Leads	3#16
Proprietary	False
Created date	03-27-2019

Heater Indicator	No Heater
High Voltage Full Load Amps	4.1 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP56
KVA Code	K
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0636M
Mounting Arrangement	W6
Number of Poles	4
Overall Length	22.68 IN
Power Factor	76
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
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1760 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

NP4328									
CAT.NO.	VLECP83661T-4								
SPEC.	06J487X189G1								
HP	3 TE				IP	56			
VOLTS	460								
AMPS	4.1								
R.P.M.	1760								
FRAME	182LP		HZ	60		PH	3		
SER.F.	1.15	CODE	K	DES.	B	CLASS	F		
RATING	40C AMB-CONT								
SN									
DE	6307		ODE	7305					
NEMA NOM. EFF.	90.2		P.F.	76					
GUAR. MIN. EFF.	88.5		CC	010A					
T. CODE	T3C		TEMP=	160					

NP3186					
SPEC.	06J487X189G1				
ABMA DE BRG	35BC03X30X				
ABMA ODE BRG	25BC03X30X				
GREASE	POLYREX EM				
MOTOR WEIGHT	108	ROTOR BARS	28	STATOR BARS	36
MAX. R.P.M.	2700	MAX. KVAR	0.92		
INV.TYPE	PWM				
T=	160				
CHP	60	TO	90		
CT	-0	TO	60		
VT	-0	TO	60		
HTR-VOLTS	N/A	HTR-AMPS	N/A		
HTR-WATTS	N/A	MAX. SPACE HEATER TEMP.			N/A

AC Induction Motor Performance Data

Record # 67068

Typical performance - not guaranteed values

Winding: 06WGX189-R038			Type: 0636M	Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: Single Voltage Motor		
Rated Output (HP)		3	Full Load Torque		8.98 LB-FT
Volts		460	Start Configuration		direct on line
Full Load Amps		4.1	Breakdown Torque		35.9 LB-FT
R.P.M.		1760	Pull-up Torque		17.63 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	20.82 LB-FT
NEMA Design Code	B	KVA Code	K	Starting Current	31.9 A
Service Factor (S.F.)		1.15	No-load Current		2.26 A
NEMA Nom. Eff.	90.2	Power Factor	76	Line-line Res. @ 25°C	3.7 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		32°C
S.F. Amps			Temp. Rise @ S.F. Load		39°C
			Locked-rotor Power Factor		40.2
			Rotor inertia		0.335 LB-FT2

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	36	56	68	75	79	82	77
Efficiency	82.9	89.3	90.4	90.4	89.8	88.3	90
Speed	1791	1782	1773	1763	1752	1738	1756
Line amperes	2.47	2.87	3.47	4.15	4.95	6.01	4.63

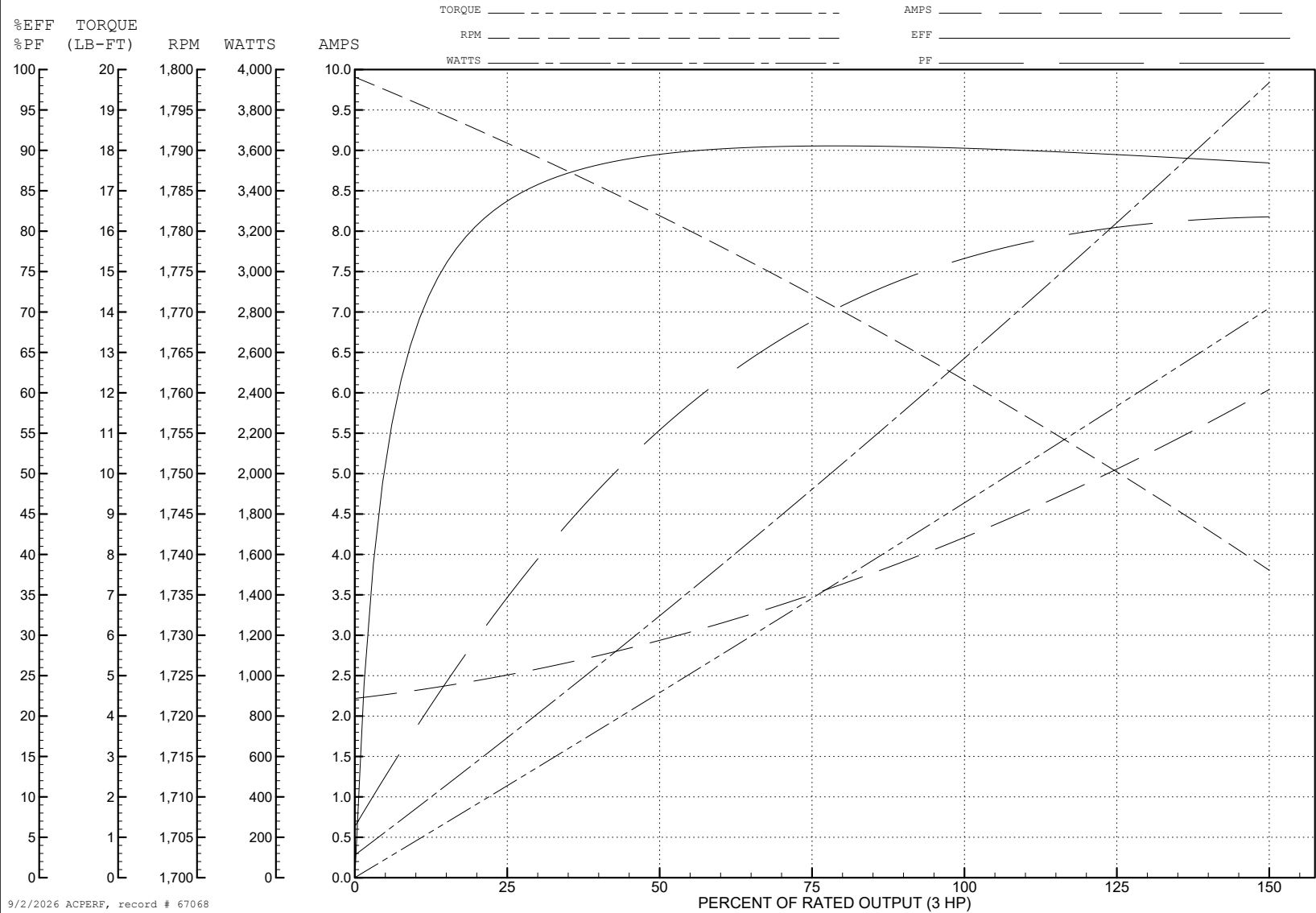
ABB Motors and Mechanical Inc.

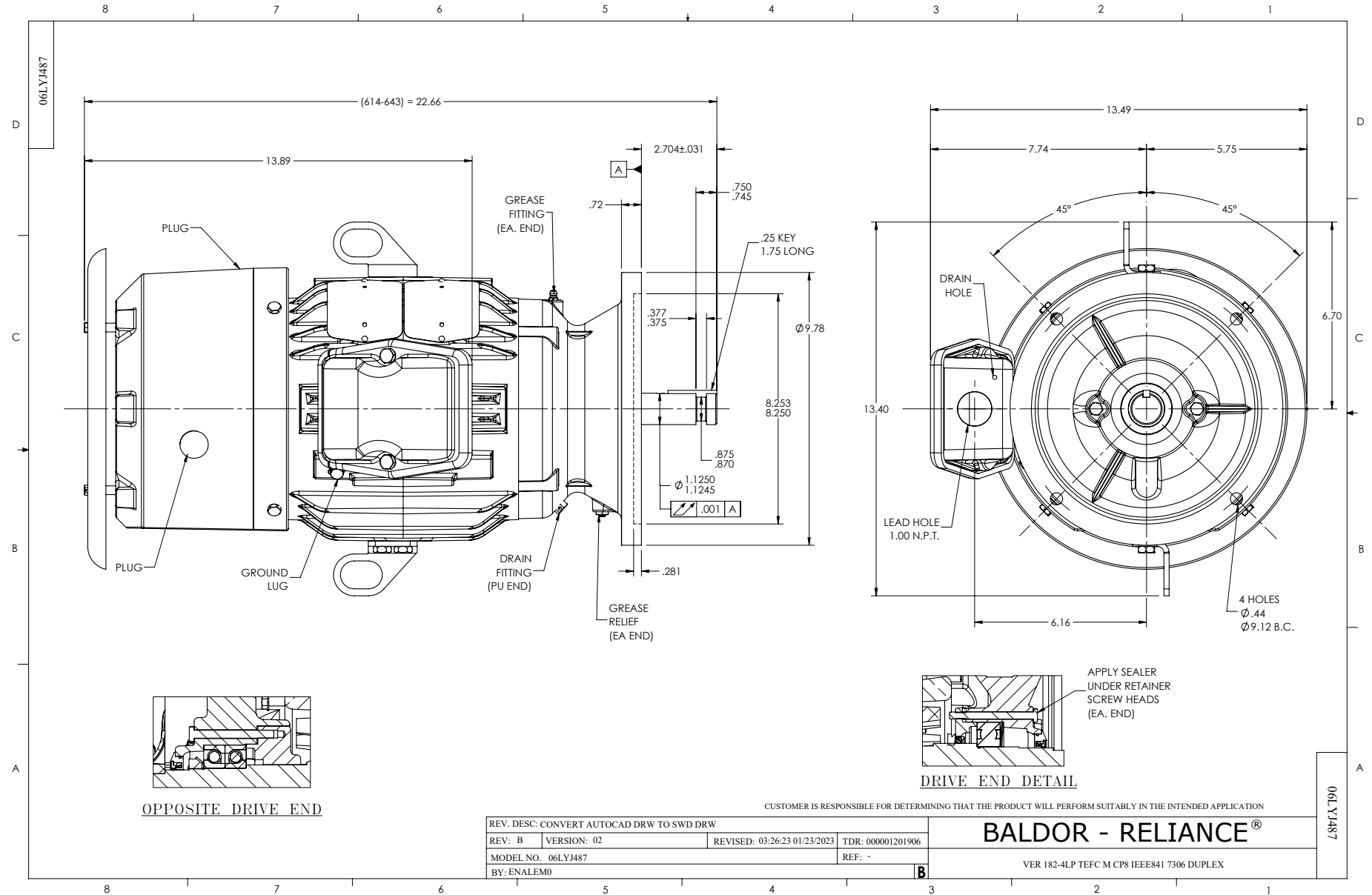
WINDING # 06WGX189

Typical performance - not guaranteed values.

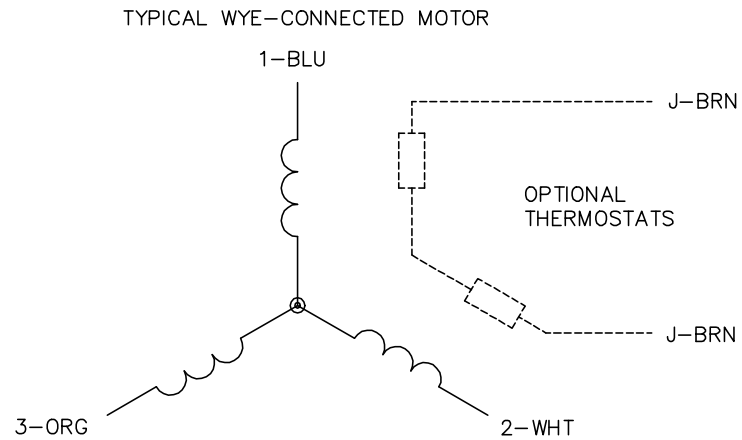
3 HP 3 PH 60 HZ 1760 RPM 460 V 0636M

TORQUES (LB-FT): PO=35.9 PU=17.63 LR=20.82 LRA=31.9





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

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