ABB BALDOR RELIANCE

Customer information packet

ECP3687T-4

1HP, 850RPM, 3PH, 60HZ, 182T, TEFC, FOOT,
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	182T
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	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	UR
	CCSA US
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
Constant Torque Speed Range	2.7
Current @ Voltage	2.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	78.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	Z
Type	AC
Mech. spec.	06H483
Base	
Status	PRD/A
Elec. spec.	06WGW491
Layout	06LYH483
Eff. date	10-01-2025
CD Diagram	CD0006
Poles	08
Leads	3#16
Proprietary	False
Created date	01-04-2011

Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	2.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	1350 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0628M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	15.93 IN
Power Factor	57
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	850 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

NP3258									
CAT.NO.	ECP3687T-4								
SPEC.	06H483W491G1								
HP	1 TE								
VOLTS	460								
AMP	2								
RPM	850								
FRAME	182T	**HZ**	60		**PH**	3			
SER.F.	1.15	**CODE**	J	**DES**	B		**CL**	F	
RATING	40C AMB-CONT								
SN									
DE	6206	**ODE**	6206						
NEMA-NOM-EFF	78.5	**PF**	57						
G.MIN.EFF	75.5	**CC**	010A						
T. CODE	T3C	**T=**	160						

NP3261			
SPEC.	06H483W491G1		
D.E. BRG.	30BC02XP30X		
O.D.E. BRG.	30BC02XP30X		
GREASE	POLYREX EM		
RPM MAX	1350	**MAX. KVAR**	0.91
BLANK			
INV.TYPE	PWM		
T=	160		
C HP FR	60	**C HP TO**	90
CT HZ FROM	2.7	**CT HZ TO**	60
VT HZ FROM	0-	**VT HZ TO**	60
HTR-VOLTS		**HTR-AMPS**	
HTR-WATTS		**MAX. SPACE HEATER TEMP.**	

AC Induction Motor Performance Data
Record # 47137
Typical performance - not guaranteed values

Winding: 06WGW491-R009	**Type:** 0628M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			1	**Full Load Torque**	6.1 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			2	**Breakdown Torque**	17 LB-FT
R.P.M.			850	**Pull-up Torque**	12 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	12.7 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	9.3 A
Service Factor (S.F.)			1.15	**No-load Current**	1.6 A
NEMA Nom. Eff.	78.5	**Power Factor**	57	**Line-line Res. @ 25ºC**	14.7 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	54°C
S.F. Amps				**Temp. Rise @ S.F. Load**	63°C
				Rotor inertia	0.263 LB-FT2

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	25	38	48	59	63	67	61
Efficiency	61.9	74.1	78.4	79.8	79.8	78.8	79.8
Speed	891	882	873	864	853	841	857
Line amperes	1.6	1.7	1.9	2	2.3	2.6	2.18

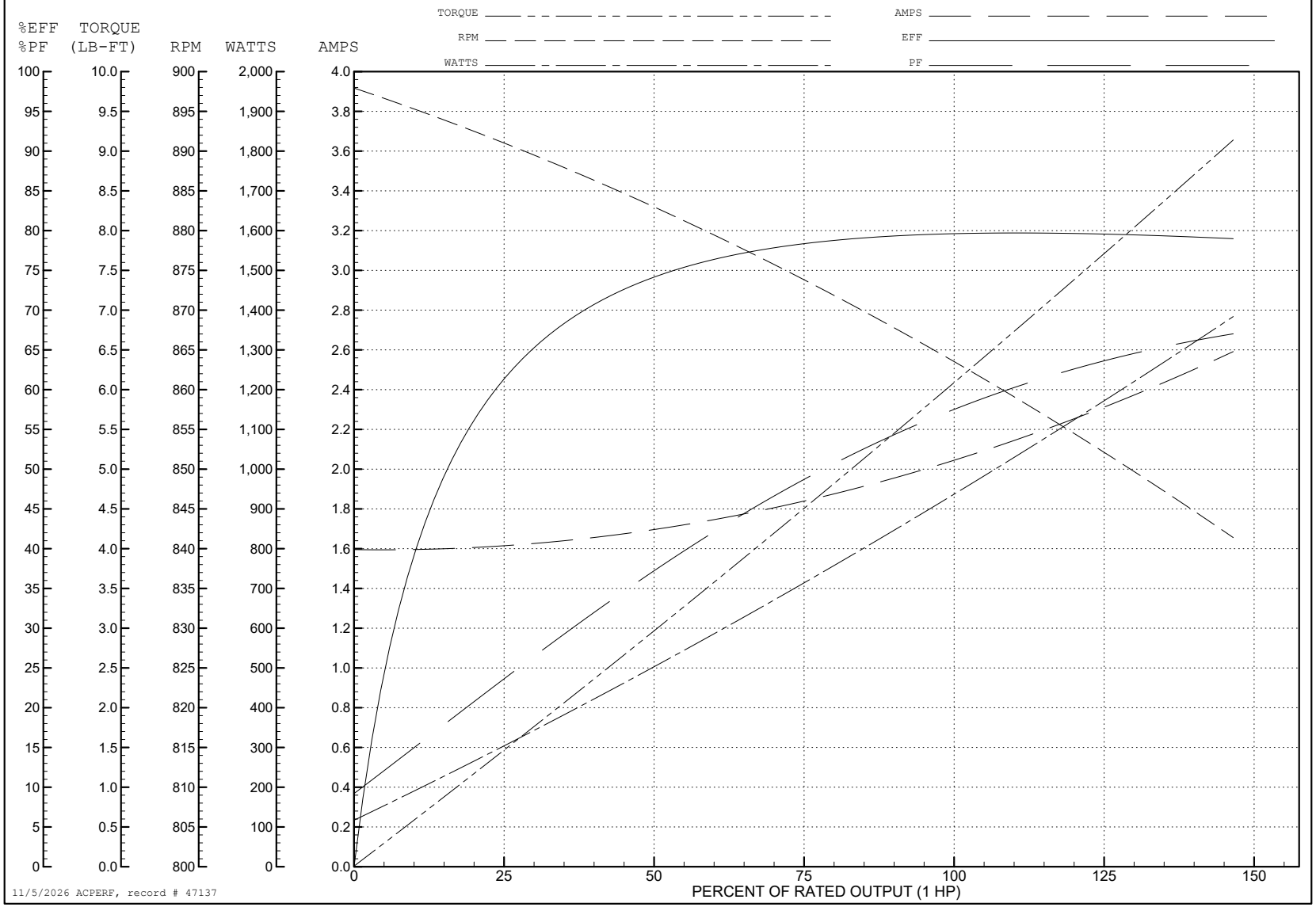
ABB Motors and Mechanical Inc.

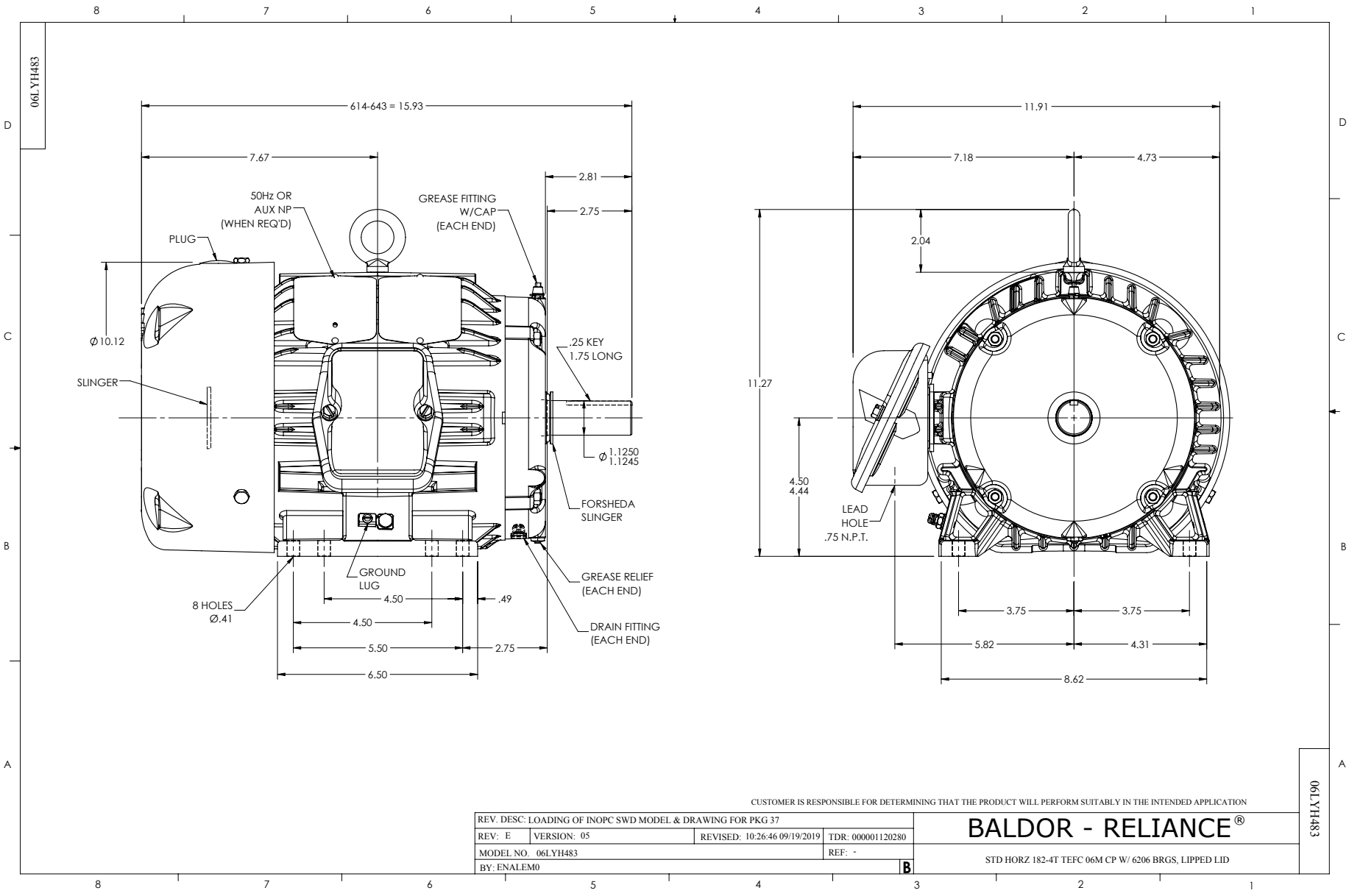
WINDING # 06WGW491

1 HP 3 PH 60 HZ 850 RPM 460 V 0628M

Typical performance - not guaranteed values.

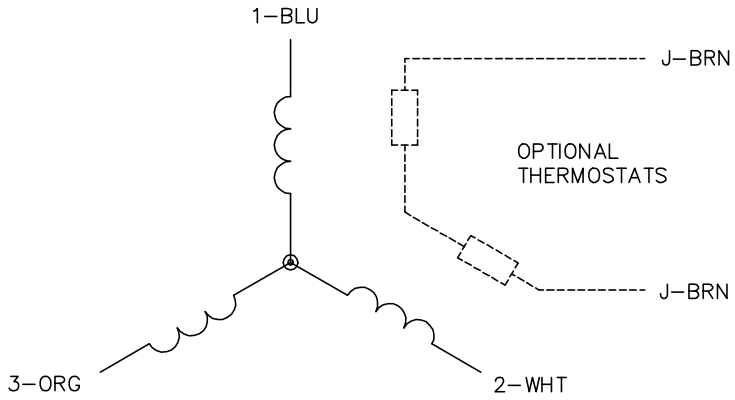
TORQUES(LB-FT): PO=17 PU=12 LR=12.7 LRA=9.3

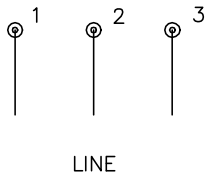



06LYH483
614-643 = 15.93
7.67
2.81
2.75
50Hz OR
AUX NP
(WHEN REQ'D)
PLUG
GREASE FITTING
W/CAP
(EACH END)
Ø 10.12
SLINGER
.25 KEY
1.75 LONG
Ø 1.1250
1.1245
FORSHEDA
SLINGER
GROUND
LUG
8 HOLES
Ø.41
4.50
.49
4.50
5.50
2.75
6.50
GREASE RELIEF
(EACH END)
DRAIN FITTING
(EACH END)
11.91
7.18
4.73
2.04
11.27
4.50
4.44
LEAD
HOLE
.75 N.P.T.
3.75
3.75
5.82
4.31
8.62
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOADING OF INOPC SWD MODEL & DRAWING FOR PKG 37
REV: E
VERSION: 05
REVISED: 10:26:46 09/19/2019
TDR: 000001120280
MODEL NO. 06LYH483
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 182-4T TEFC 06M CP W/ 6206 BRGS, LIPPED LID
06LYH483

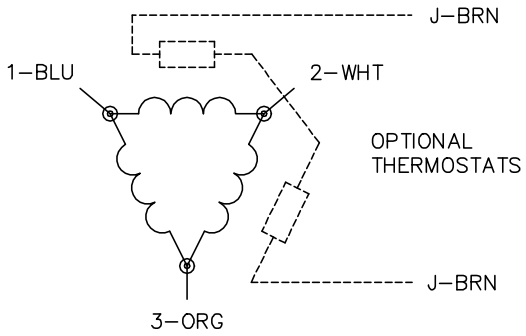
CD0006

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