ABB BALDOR RELIANCE

Customer information packet

ECP83664T-5

2HP, 1165RPM, 3PH, 60HZ, 184T, 0642M, TEFC, F1
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	184T
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	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CCSA US
	CSA EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	UR
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	1.8
Current @ Voltage	2.500 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	AG
Type	AC
Mech. spec.	06H759
Base	
Status	PRD/A
Elec. spec.	06WGX236
Layout	06LYH759
Eff. date	10-01-2025
CD Diagram	CD0006
Poles	06
Leads	3#16
Proprietary	False
Created date	12-06-2010

Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	2.5 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Motor Type	0642M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	15.93 IN
Power Factor	68
Product Family	Super-E Chemical Processing
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	1165 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

NP4328									
CAT.NO.	ECP83664T-5								
SPEC.	06H759X236G1								
HP	2 TE			**IP**	56				
VOLTS	575								
AMPS	2.5								
R.P.M.	1165								
FRAME	184T	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	H	**DES.**	B		**CLASS**	F	
RATING	40C AMB-CONT								
SN									
DE	6206	**ODE**	6206						
NEMA NOM. EFF.	88.5	**P.F.**	68						
GUAR. MIN. EFF.	86.5	**CC**	010A						
T. CODE	T3C	**TEMP=**	160						

NP3186							
SPEC.	06H759X236G1						
ABMA DE BRG	30BC02X30X						
ABMA ODE BRG	30BC02X30X						
GREASE	POLYREX EM						
MOTOR WEIGHT	128	**ROTOR BARS**	27	**STATOR BARS**	36		
MAX. R.P.M.	1800	**MAX. KVAR**	1.0				
INV.TYPE	PWM						
T=	160						
CHP	60	**TO**	90				
CT	1.8	**TO**	60				
VT	0-	**TO**	60				
HTR-VOLTS	N/A	**HTR-AMPS**	N/A				
HTR-WATTS		**MAX. SPACE HEATER TEMP.**			N/A		

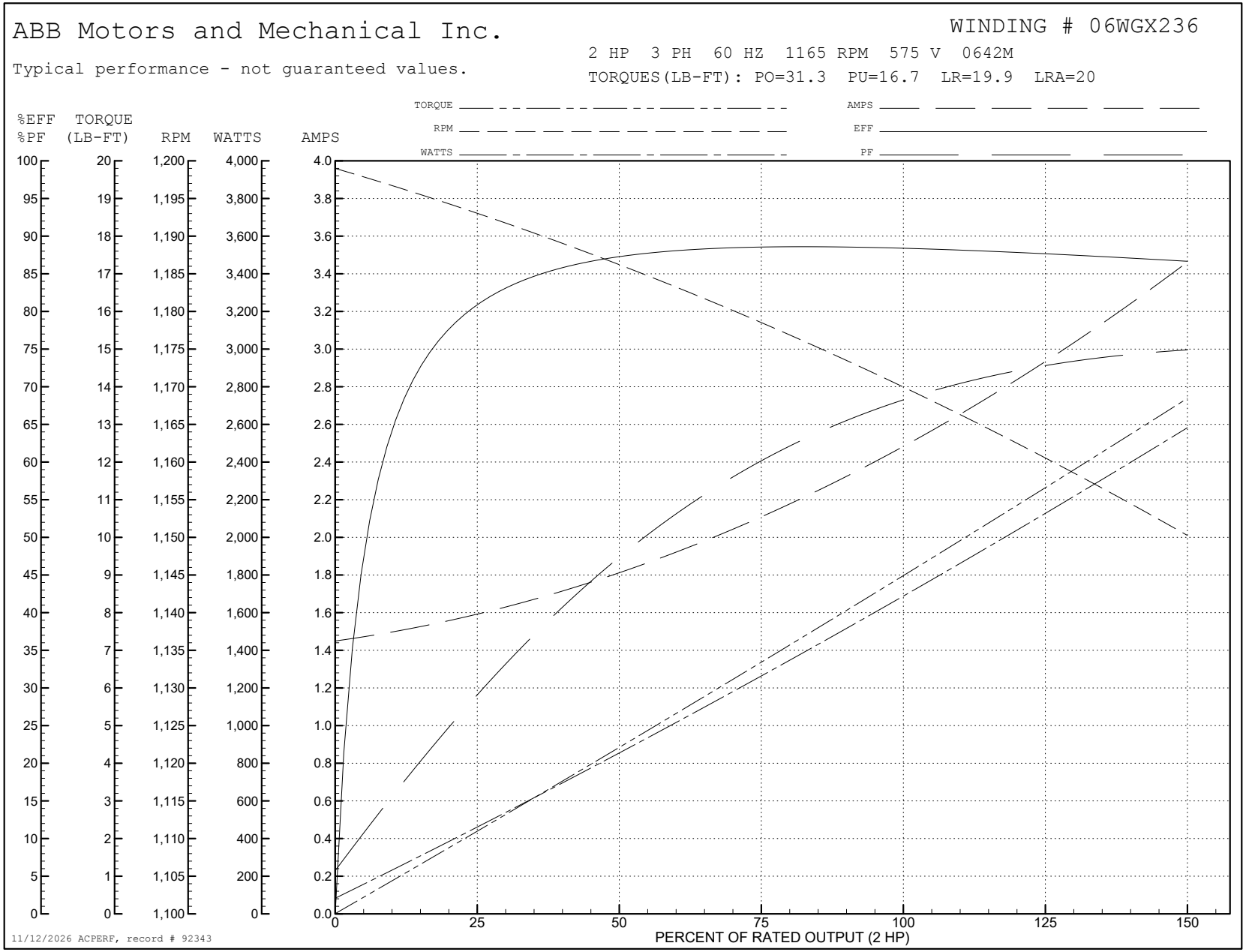
AC Induction Motor Performance Data
Record # 92343
Typical performance - not guaranteed values

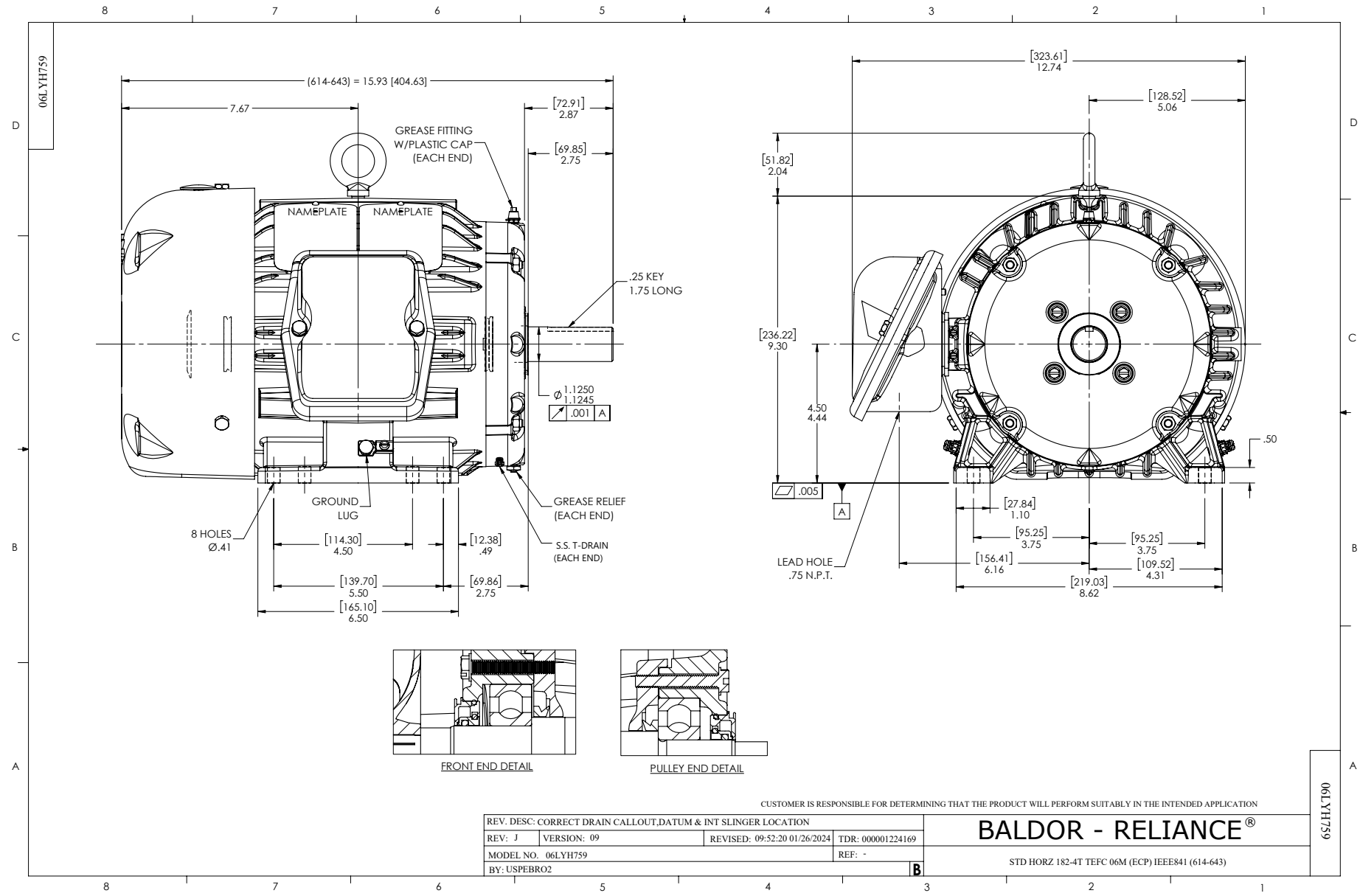
Winding: 06WGX236-R006	**Type:** 0642M	**Enclosure:** TEFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			2	**Full Load Torque**	9 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			2.5	**Breakdown Torque**	31.3 LB-FT
R.P.M.			1165	**Pull-up Torque**	16.7 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	19.9 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	20 A
Service Factor (S.F.)			1.15	**No-load Current**	1.47 A
NEMA Nom. Eff.	88.5	**Power Factor**	68	**Line-line Res. @ 25ºC**	8.07 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	27°C
S.F. Amps				**Temp. Rise @ S.F. Load**	32°C
				Locked-rotor Power Factor	28.6
				Rotor inertia	0.395 lb-ft²

Load Characteristics 575 V, 60 Hz, 2 HP

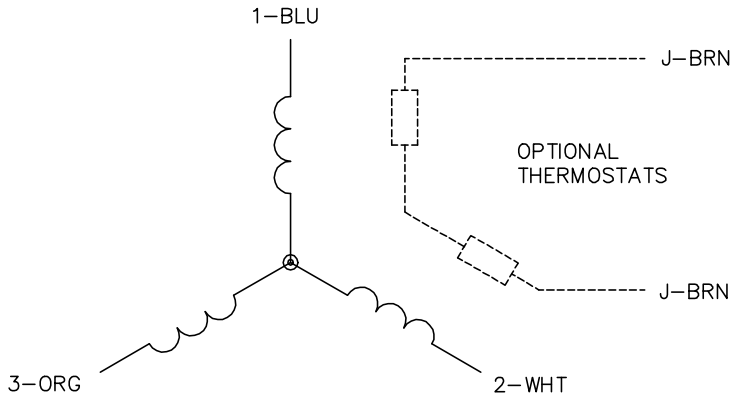
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	30	48	60	68	73	75	71
Efficiency	80.4	87.1	88.5	88.5	87.6	86.6	88.1
Speed	1193	1186	1178	1170	1161	1150	1165
Line amperes	1.57	1.8	2.13	2.5	2.94	3.45	2.76

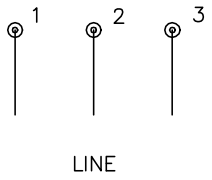

ABB Motors and Mechanical Inc.
WINDING # 06WGX236
Typical performance - not guaranteed values.
2 HP 3 PH 60 HZ 1165 RPM 575 V 0642M
TORQUES(LB-FT): PO=31.3 PU=16.7 LR=19.9 LRA=20
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (2 HP)
11/12/2026 ACPERF, record # 92343


06LYH759
(614-643) = 15.93 [404.63]
7.67
[72.91] 2.87
[69.85] 2.75
GREASE FITTING W/PLASTIC CAP (EACH END)
NAMEPLATE
NAMEPLATE
.25 KEY 1.75 LONG
Ø 1.1250 1.1245
.001 A
GROUND LUG
GREASE RELIEF (EACH END)
8 HOLES Ø.41
[114.30] 4.50
[12.38] .49
S.S. T-DRAIN (EACH END)
[139.70] 5.50
[69.86] 2.75
[165.10] 6.50
[323.61] 12.74
[128.52] 5.06
[51.82] 2.04
[236.22] 9.30
4.50 4.44
.50
.005
A
[27.84] 1.10
[95.25] 3.75
[95.25] 3.75
LEAD HOLE .75 N.P.T.
[156.41] 6.16
[109.52] 4.31
[219.03] 8.62
FRONT END DETAIL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CORRECT DRAIN CALLOUT,DATUM & INT SLINGER LOCATION
REV: J
VERSION: 09
REVISED: 09:52:20 01/26/2024
TDR: 000001224169
MODEL NO. 06LYH759
REF: -
BY: USPEBRO2
B
BALDOR - RELIANCE®
STD HORZ 182-4T TEFC 06M (ECP) IEEE841 (614-643)
06LYH759

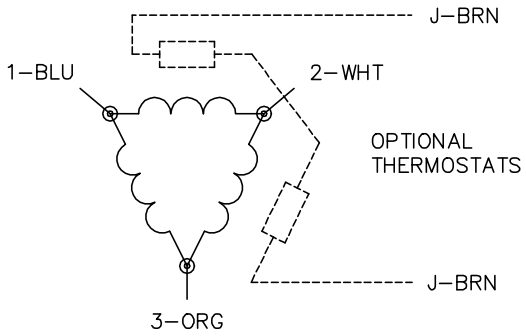
CD0006

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		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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