



Customer information packet

ECP83663T-5

5HP, 3440RPM, 3PH, 60HZ, 184T, 0643M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	184T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CL I GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 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	6
Current @ Voltage	4.600 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	P
Type	AC
Mech. spec.	06H759
Base	
Status	PRD/A
Elec. spec.	06WGX823
Layout	06LYH759
Eff. date	09-16-2024
CD Diagram	CD0006
Poles	02
Leads	3#16
Proprietary	False
Created date	10-03-2016

Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	4.6 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 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	2
Overall Length	15.93 IN
Power Factor	94
Product Family	Chem Process S/P 32-8 IEEE 841
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
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	3440 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.	ECP83663T-5								
SPEC.	06H759X823G1								
HP	5 TE				IP	56			
VOLTS	575								
AMPS	4.6								
R.P.M.	3440								
FRAME	184T		HZ		60		PH	3	
SER.F.	1.15	CODE	J	DES.	B	CLASS		F	
RATING	40C AMB-CONT								
SN									
DE	6206		ODE		6206				
NEMA NOM. EFF.	88.5		P.F.		94				
GUAR. MIN. EFF.	86.5		CC		010A				
T. CODE	T3C		TEMP=		160				

NP3186

SPEC.	06H759X823G1				
ABMA DE BRG	30BC02X30X				
ABMA ODE BRG	30BC02X30X				
GREASE	POLYREX EM				
MOTOR WEIGHT	130	ROTOR BARS	28	STATOR BARS	36
MAX. R.P.M.	5400	MAX. KVAR	0.15		
INV.TYPE	PWM				
T=	160				
CHP	60	TO	90		
CT	6	TO	60		
VT	2.7	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 # 59636

Typical performance - not guaranteed values

Winding: 06WGX823-R001		Type: 0642M	Enclosure: TEFC
Nameplate Data		575 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	5	Full Load Torque	7.76 LB-FT
Volts	575	Start Configuration	direct on line
Full Load Amps	4.6	Breakdown Torque	34.17 LB-FT
R.P.M.	3440	Pull-up Torque	13.73 LB-FT
Hz	60 Phase	Locked-rotor Torque	23.4 LB-FT
NEMA Design Code	B KVA Code	Starting Current	37.16 A
Service Factor (S.F.)	1.15	No-load Current	0.876 A
NEMA Nom. Eff.	88.5 Power Factor	Line-line Res. @ 25°C	4.06 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	51°C
S.F. Amps		Temp. Rise @ S.F. Load	65°C
		Locked-rotor Power Factor	41.9
		Rotor inertia	0.188 LB-FT ²

Load Characteristics 575 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	78	89	93	94	93	97	93
Efficiency	90.1	91.4	90.5	88.8	86.4	84.2	87.4
Speed	3560	3524	3484	3440	3389	3334	3406
Line amperes	1.45	2.35	3.41	4.54	5.86	6.98	5.34

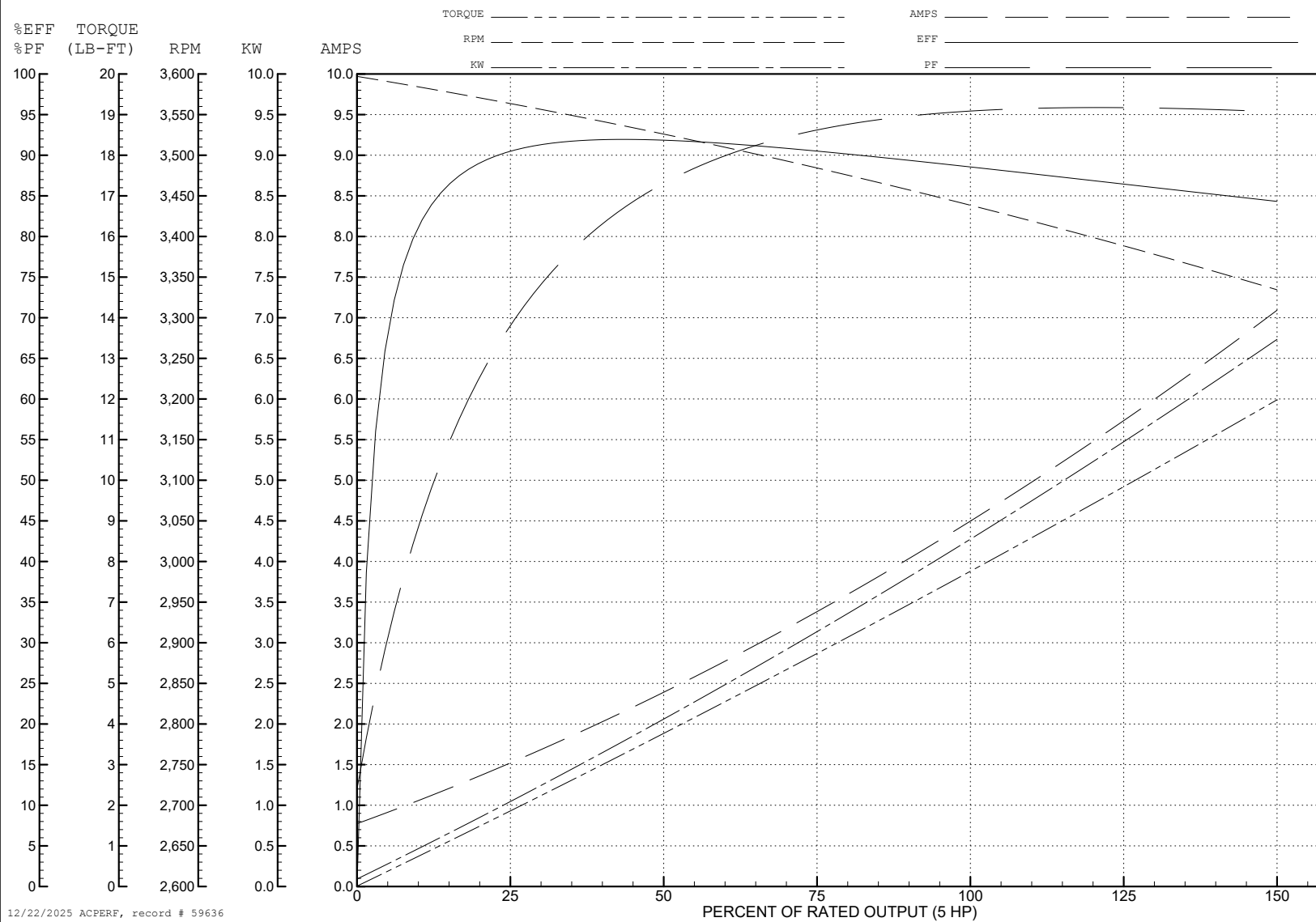
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WINDING # 06WX823

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 3440 RPM 575 V 0642M

TORQUES (LB-FT): PO=34.17 PU=13.73 LR=23.4 LRA=37.16



AC Induction Motor Performance Data

Record # 106001

Typical performance - not guaranteed values

Winding: 06WGX823-R001			Type: 0642M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: Single Voltage Motor		
Rated Output (HP)		5		Full Load Torque		7.98 LB-FT
Volts		575		Start Configuration		direct on line
Full Load Amps		4.6		Breakdown Torque		21.8 LB-FT
R.P.M.		3440		Pull-up Torque		8.8 LB-FT
Hz		60		Phase		3
NEMA Design Code		B		KVA Code		J
Service Factor (S.F.)		1.15		Starting Current		29.7 A
NEMA Nom. Eff.		88.5		Power Factor		94
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		74°C
S.F. Amps				Temp. Rise @ S.F. Load		103°C
				Locked-rotor Power Factor		41.7
				Rotor inertia		0.188 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	88	93	94	94	91	91	92
Efficiency	91.6	90.9	88.6	85.3	80.8	74.9	82.6
Speed	3541	3485	3420	3344	3244	3094	3284
Line amperes	1.59	2.84	4.3	5.94	8.03	10.45	7.19

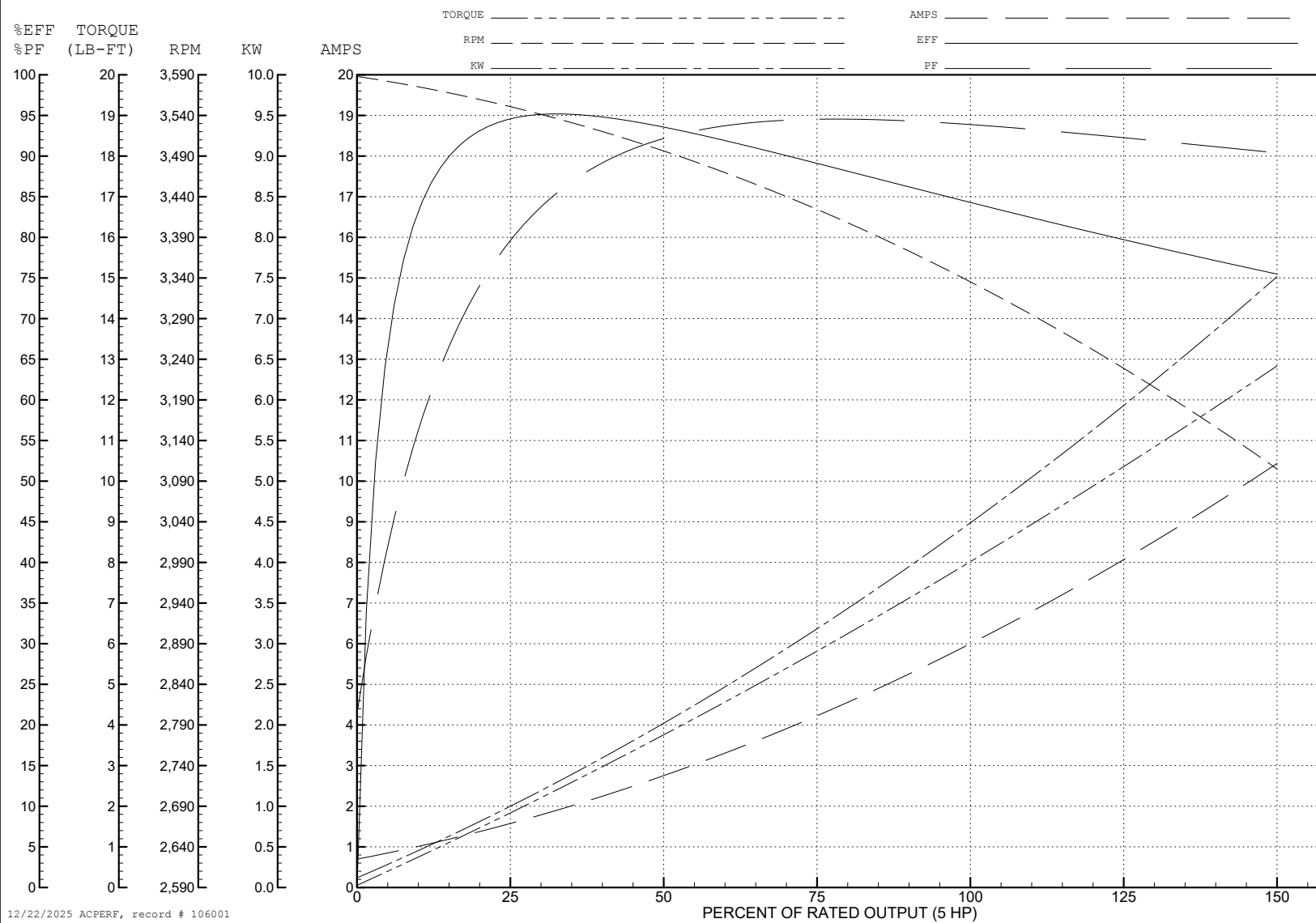
ABB Motors and Mechanical Inc.

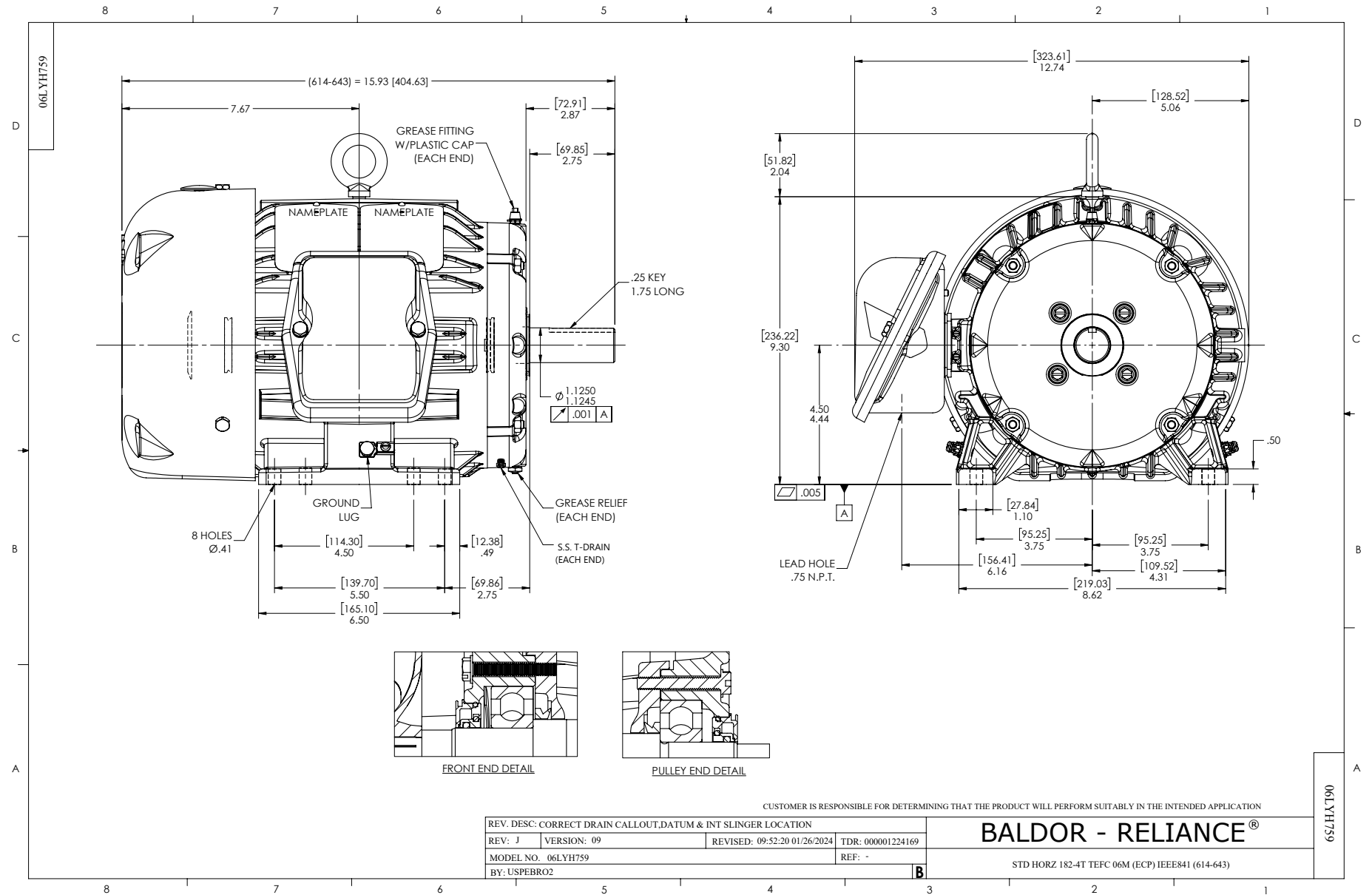
WINDING # 06WGX823

Typical performance - not guaranteed values.

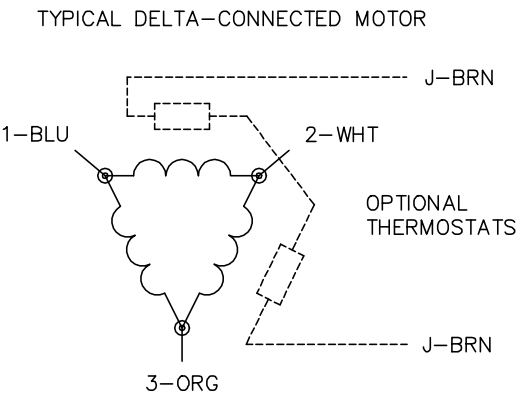
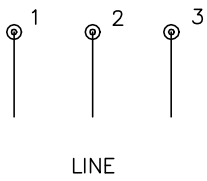
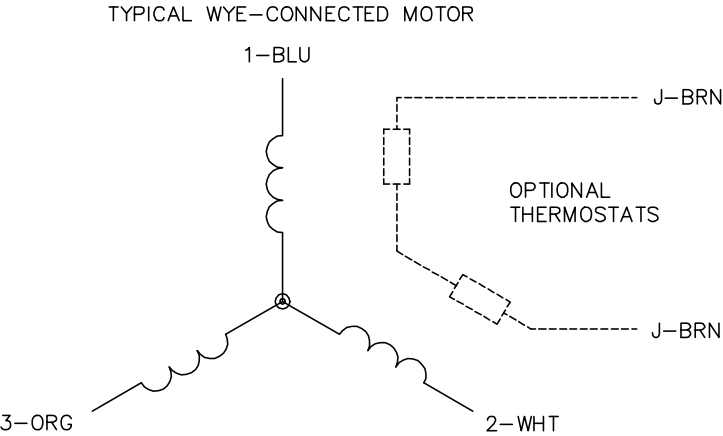
5 HP 3 PH 60 HZ 3440 RPM 460 V 0642M

TORQUES (LB-FT): PO=21.8 PU=8.8 LR=14.9 LRA=29.7





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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