

ABB BALDOR RELIANCE III

Customer information packet

ECP83665T-5

5HP, 1750RPM, 3PH, 60HZ, 184T, 0641M, 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	1800 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	1.7
Current @ Voltage	5.300 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	AF
Type	AC
Mech. spec.	06H759
Base	
Status	PRD/A
Elec. spec.	06WGX200
Layout	06LYH759
Eff. date	10-01-2025
CD Diagram	CD0006
Poles	04
Leads	3#16
Proprietary	False
Created date	04-05-2012

Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	5.3 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 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	4
Overall Length	15.93 IN
Power Factor	79
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	No Slinger
Speed	1750 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.	ECP83665T-5								
SPEC.	06H759X200G1								
HP	5 TE				IP	56			
VOLTS	575								
AMPS	5.3								
R.P.M.	1750								
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.	89.5		P.F.		79				
GUAR. MIN. EFF.	87.5		CC		010A				
T. CODE	T3C		TEMP=		160				

NP3186

SPEC.	06H759X200G1				
ABMA DE BRG	30BC02X30X				
ABMA ODE BRG	30BC02X30X				
GREASE	POLYREX EM				
MOTOR WEIGHT	127	ROTOR BARS	28	STATOR BARS	36
MAX. R.P.M.	2700	MAX. KVAR	1.2		
INV.TYPE	PWM				
T=	160				
CHP	60	TO	90		
CT	1.7	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 # 92586

Typical performance - not guaranteed values

Winding: 06WGX200-R025			Type: 0642M		Enclosure: TEFC	
Nameplate Data			575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		5	Full Load Torque		15 LB-FT	
Volts		575	Start Configuration		direct on line	
Full Load Amps		5.3	Breakdown Torque		52.3 LB-FT	
R.P.M.		1750	Pull-up Torque		21.6 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		30.7 LB-FT
NEMA Design Code		B	KVA Code		J	
Service Factor (S.F.)		1.15	Starting Current		36.8 A	
NEMA Nom. Eff.		89.5	Power Factor		79	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		54°C
S.F. Amps				Temp. Rise @ S.F. Load		67°C
				Locked-rotor Power Factor		40.6
				Rotor inertia		0.391 lb-ft²

Load Characteristics 575 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	64	76	79	84	85	81
Efficiency	85.2	89.8	90.1	89.5	88.2	86.4	89
Speed	1788	1777	1764	1751	1736	1719	1738
Line amperes	2.61	3.26	4.13	5.3	6.31	7.59	5.97

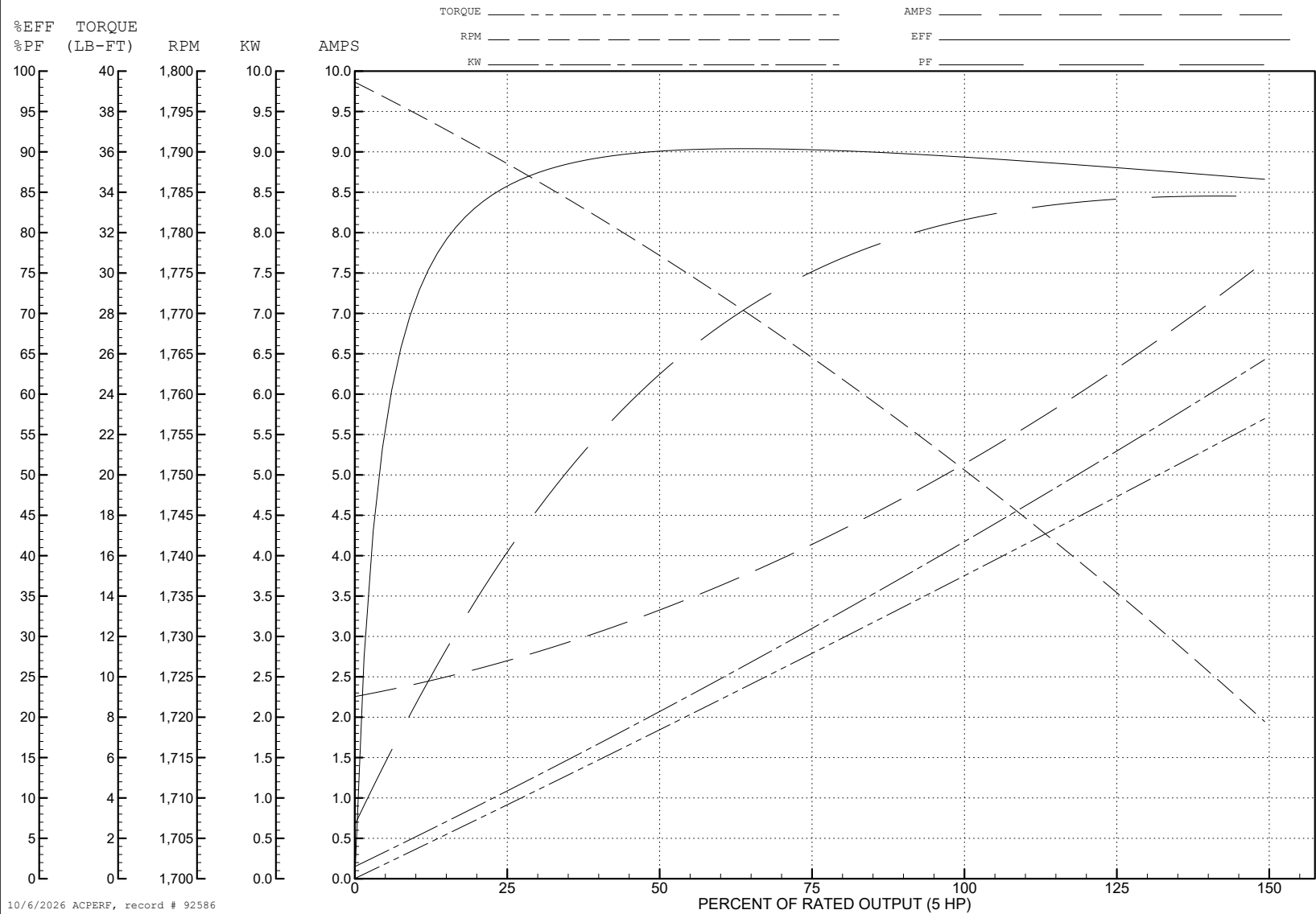
ABB Motors and Mechanical Inc.

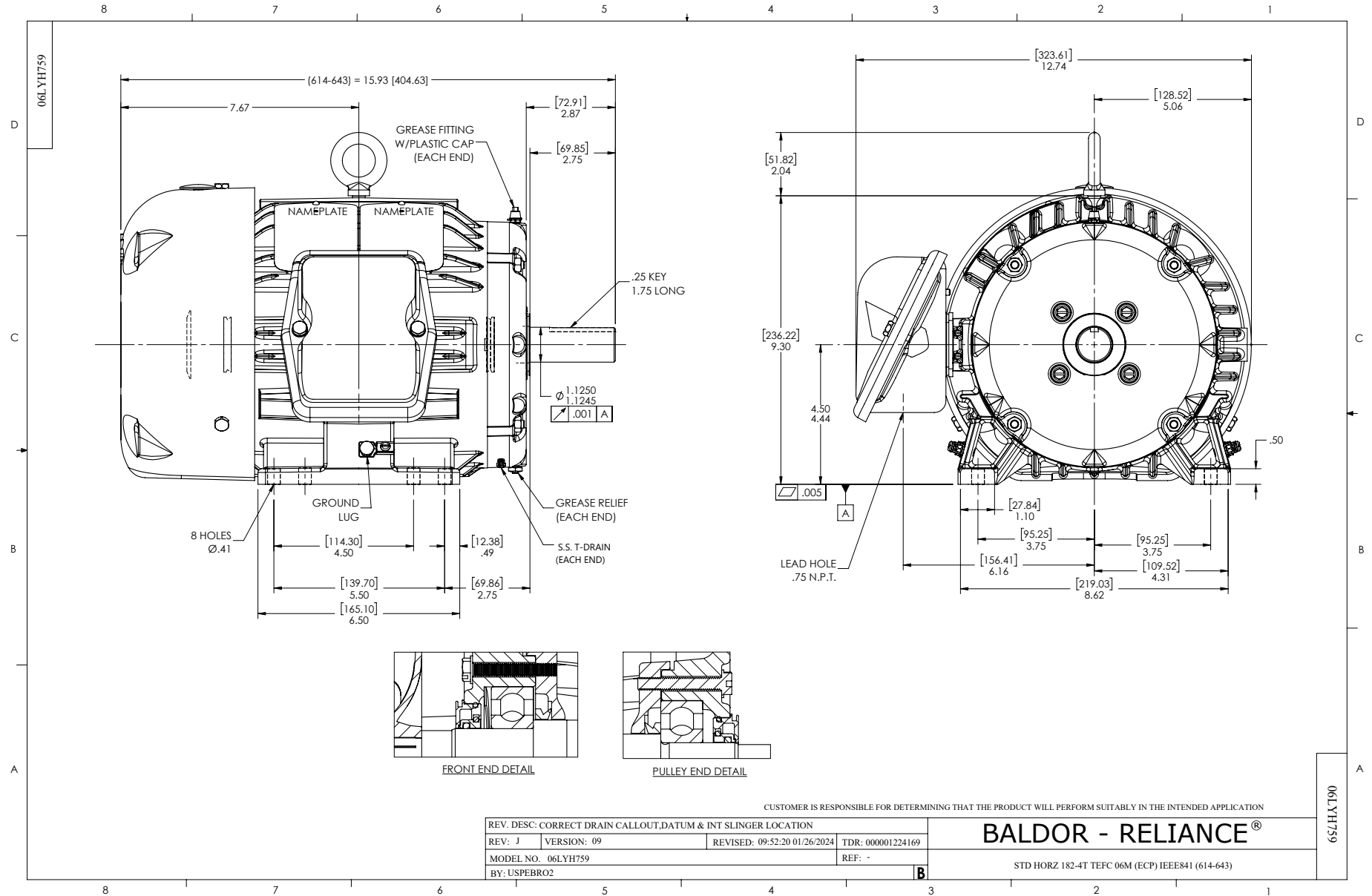
WINDING # 06WGX200

Typical performance - not guaranteed values.

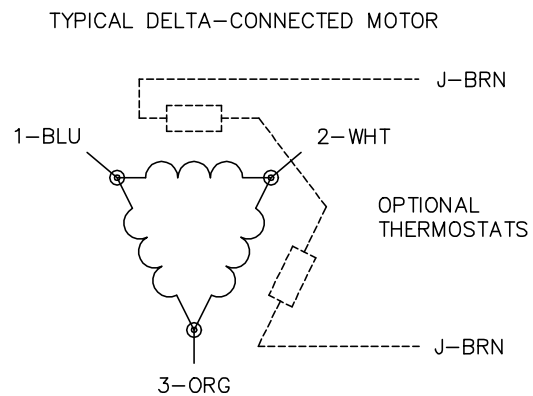
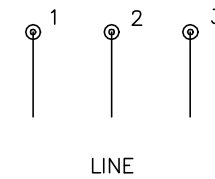
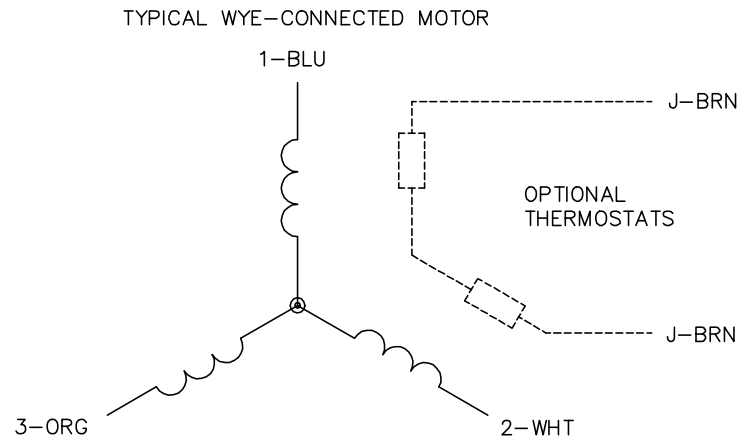
5 HP 3 PH 60 HZ 1750 RPM 575 V 0642M

TORQUES (LB-FT) : PO=52.3 PU=21.6 LR=30.7 LRA=36.8





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

SH 1 of 1