

ABB BALDOR RELIANCE III

Customer information packet

EM3665T-5

42M 4P TEFC HOR 184T SUPER E

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
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	NEMA PREMIUM CURUSEEV
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
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 Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	5.3 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE

Part Detail

Revision	E
Type	AC
Mech. spec.	06C101
Base	
Status	PRD/A
Elec. spec.	06WGX200
Layout	06LYC101
Eff. date	08-05-2024
CD Diagram	CD0006
Poles	04
Leads	3#16
Proprietary	False
Created date	12-14-2018

KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0642M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.24 IN
Power Factor	79
Product Family	General Purpose
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 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

NP3441L									
CAT.NO.	EM3665T-5								
SPEC.	06C101X200G3								
HP	5								
VOLTS	575								
AMP	5.3								
RPM	1750								
FRAME	184T		HZ	60			PH	3	
SER.F.	1.15	CODE	J	DES	B		CL	F	
NEMA-NOM-EFF	89.5		PF	79					
RATING	40C AMB-CONT								
CC	010A								
DE	6206		ODE	6205					
ENCL	TEFC	SN							
VPWM INVERTER READY									
CT6-60H(10:1)VT3-60H(20:1									
SFA 5.8									

Parts List

Part number	Description	Quantity
SA364083	SA 06C101X200G3	1.000 ea
RA353393	RA 06C101X200G3	1.000 ea
36FN3000C01SP	EXFN, PLASTIC, 5.25 OD, .912 ID	1.000 ea
HW3201A05	3/8-16 EYEBOLT	1.000 ea
06CB3000	BALDOR CONDUIT BOX CAST	1.000 ea
06GS1000	GASKET, CONDUIT BOX	1.000 ea
51XW2520A12	SCREW, HEX SER SLT HD, ZN, 1/4-20 X .75	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B02	BRASS CUP WASHER W/GROUND SYMBOL TAB,	1.000 ea
36FE1101B47	FREP ASSEMBLY FOR ROUTING PURPOSES	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
36PE1100A01	PUEP ASSEMBLY FOR ROUTING PURPOSES	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HA3101A34	THRUBOLT- 1/4-20 X 10.375	4.000 ea
XY2520A12	1/4-20 HEX NUT, DIRECTIONAL SERRATIONS	4.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
36FH4009A03SP	IEC FH , W/ PRIMER	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
06CB3500	BALDOR CONDUIT BOX LID	1.000 ea
06GS1001	BALDOR CONDUIT BOX GASKET	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
HW2501E16	KEY, 1/4 SQ X 1.750	1.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.026 ga
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
LC0006	CONNECTION LABEL	1.000 ea
NP3441L	ALUM SUPER-E VPWM INVERTER READY UL EEV	1.000 ea
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea

MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
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Accessories

Part number	Description	Multiplier
36-1749	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 81830

Typical performance - not guaranteed values

Winding: 06WGX200-R001			Type: 0642M		Enclosure: TEFC	
Nameplate Data			575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		5	Full Load Torque		15.03 LB-FT	
Volts		575	Start Configuration		direct on line	
Full Load Amps		5.3	Breakdown Torque		52.33 LB-FT	
R.P.M.		1750	Pull-up Torque		21.64 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque	30.73 LB-FT	
NEMA Design Code	B	KVA Code	J	Starting Current	36.26 A	
Service Factor (S.F.)		1.15	No-load Current		2.34 A	
NEMA Nom. Eff.	89.5	Power Factor	79	Line-line Res. @ 25°C	4.27 Ω	
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	81	84	85	83
Efficiency	85.2	89.8	90.3	89.6	88.2	86.6	88.8
Speed	1788	1777	1764	1751	1736	1719	1742
Line amperes	2.61	3.26	4.13	5.14	6.31	7.59	5.84

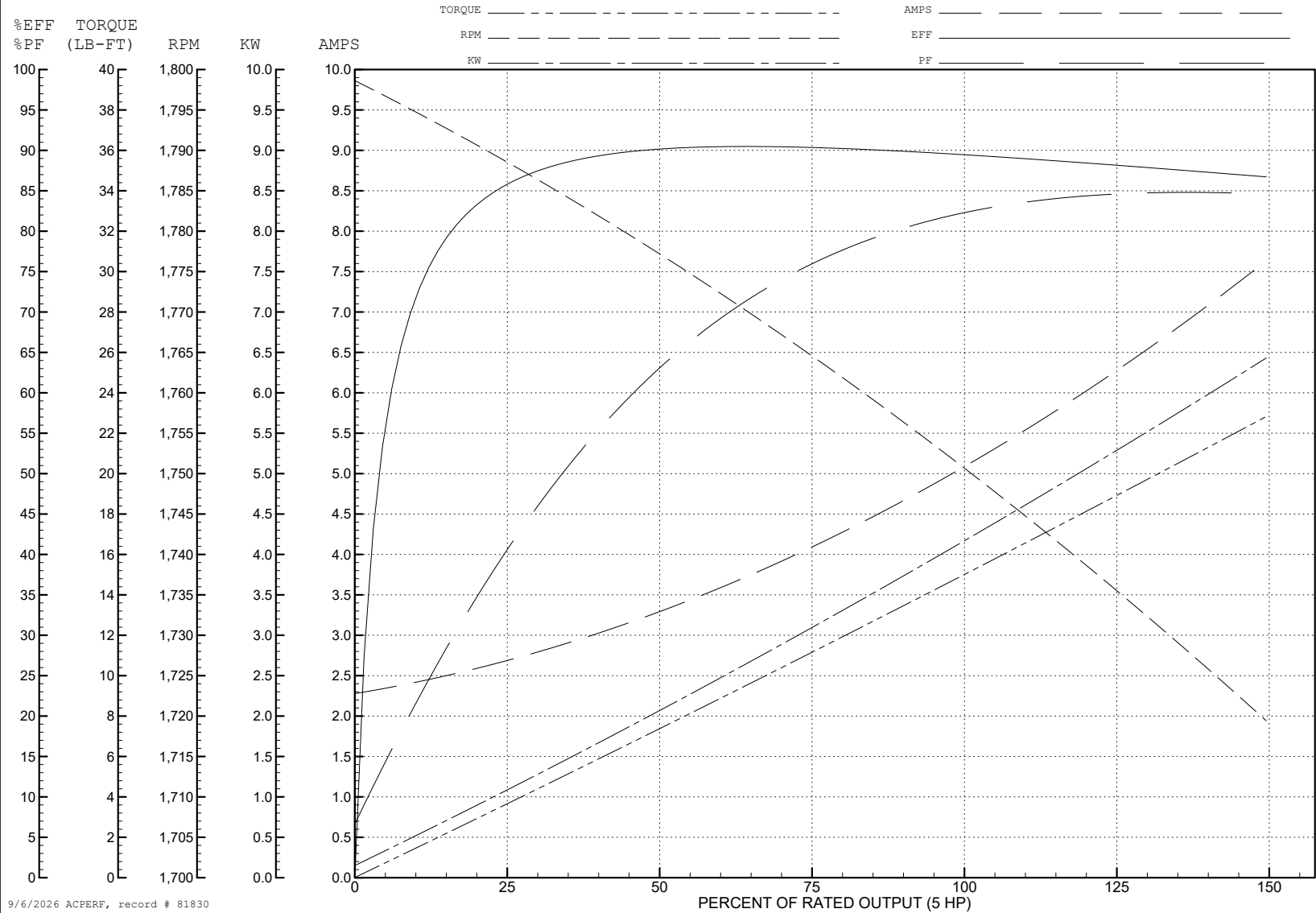
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WINDING # 06WGX200

Typical performance - not guaranteed values.

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

TORQUES (LB-FT) : PO=52.33 PU=21.64 LR=30.73 LRA=36.26



AC Induction Motor Performance Data

Record # 84795

Typical performance - not guaranteed values

Winding: 06WGX200-R001			Type: 0642M		Enclosure: TEFC		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (KW)		3.7	Full Load Torque		14.85 N-M		
Volts		575	Start Configuration		direct on line		
Full Load Amps		5.3	Breakdown Torque		52.3 N-M		
R.P.M.		1750	Pull-up Torque		21.6 N-M		
Hz	60	Phase	3	Locked-rotor Torque		30.7 N-M	
NEMA Design Code		B	KVA Code	J	Starting Current		36.3 A
Service Factor (S.F.)		1.15	No-load Current		2.34 A		
NEMA Nom. Eff.		89.5	Power Factor	79	Line-line Res. @ 25°C		4.27 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		53°C	
S.F. Amps				Temp. Rise @ S.F. Load		66°C	
				Locked-rotor Power Factor		40.6	
				Rotor inertia		0.391 kg-m²	

Load Characteristics 575 V, 60 Hz, 3.7 KW

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	64	75	81	84	85	83
Efficiency	62.6	66.2	66.4	66	65.1	63.8	65.5
Speed	1788	1777	1764	1751	1736	1720	1742
Line amperes	2.6	3.25	4.11	5.1	6.27	7.52	5.8

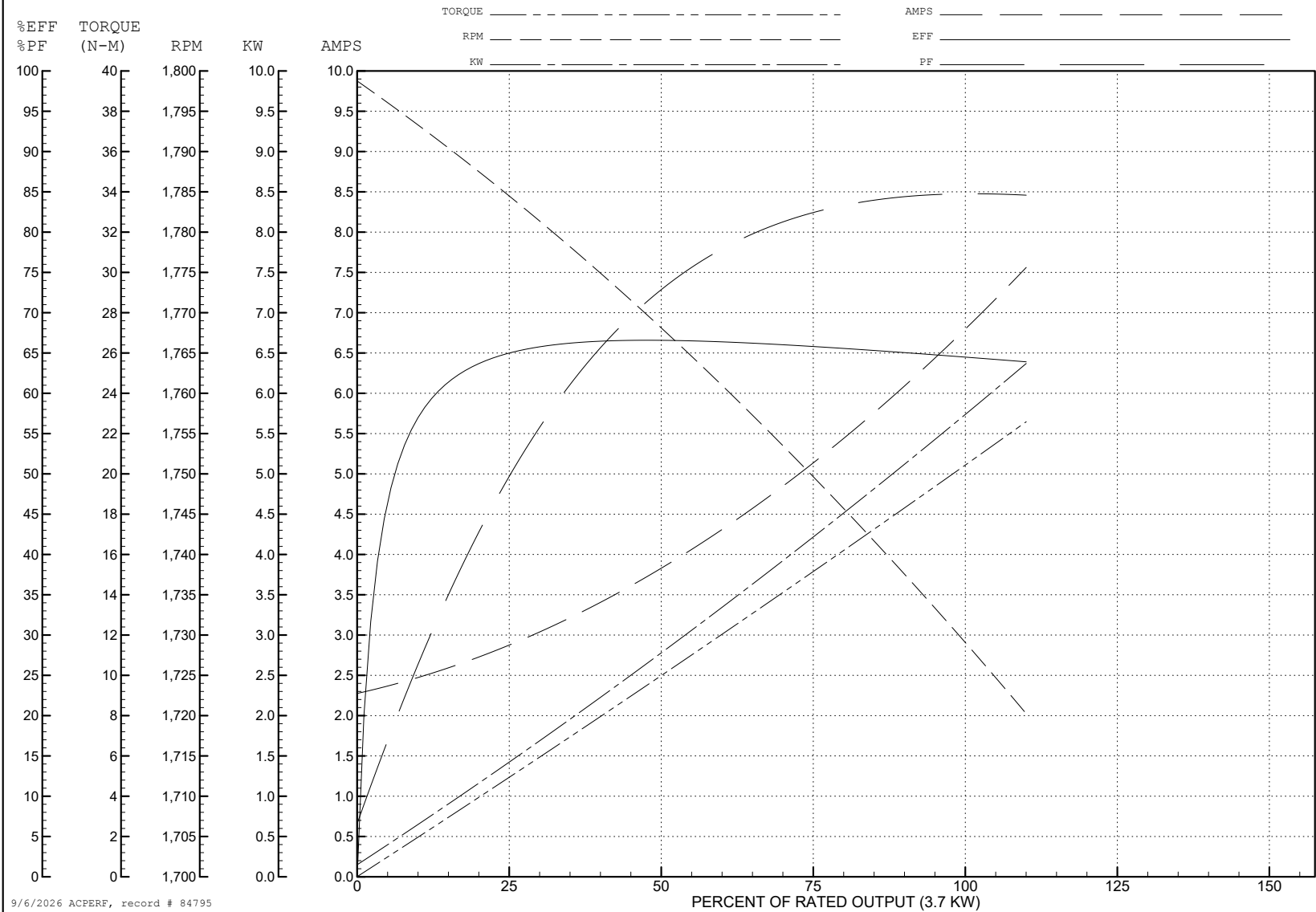
ABB Motors and Mechanical Inc.

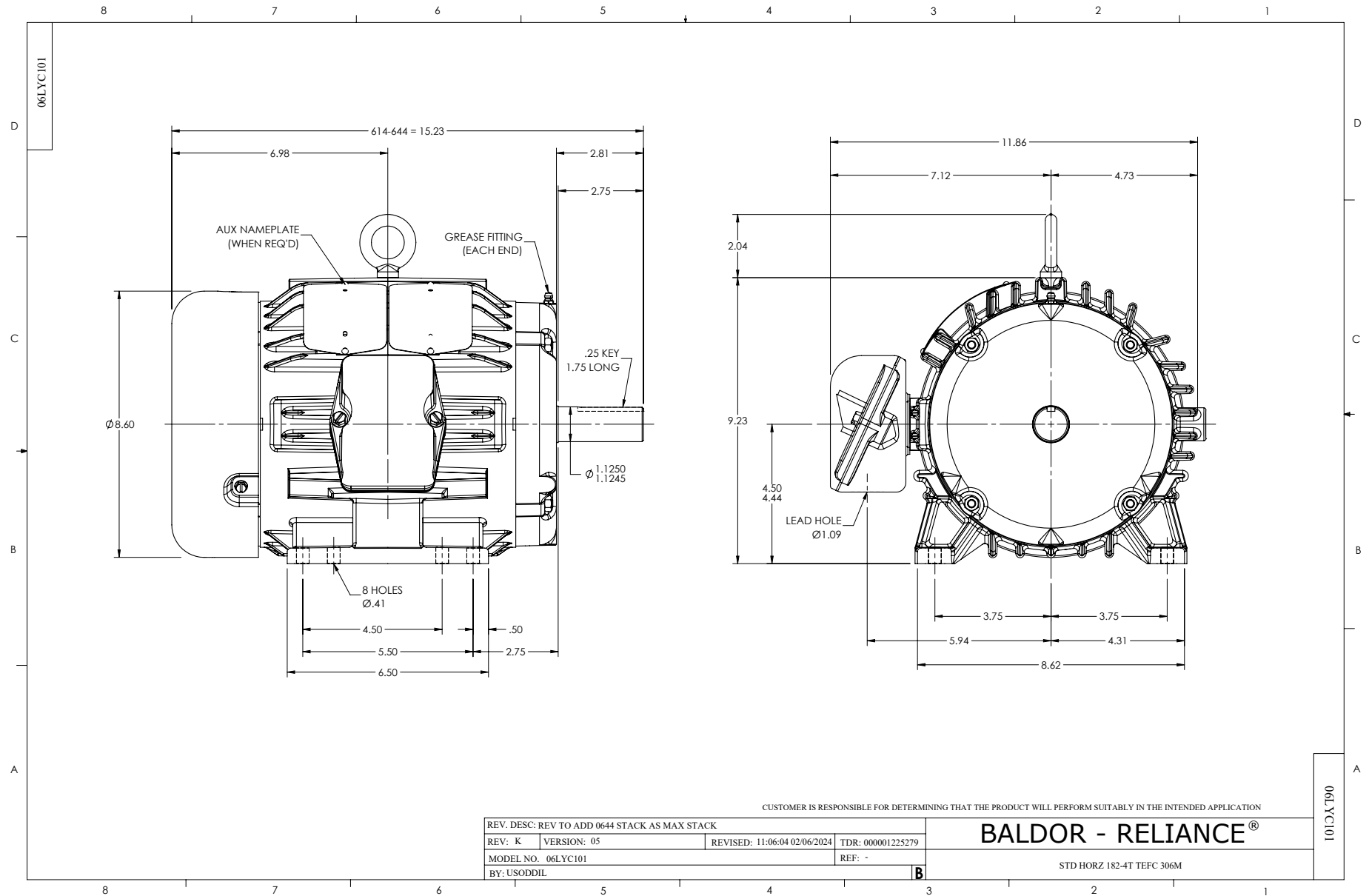
WINDING # 06WGX200

3.7 KW 3 PH 60 HZ 1750 RPM 575 V 0642M

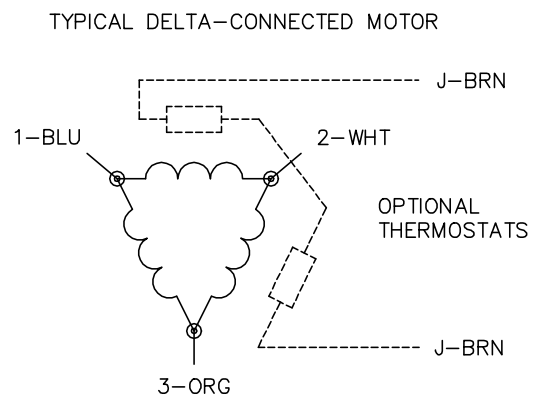
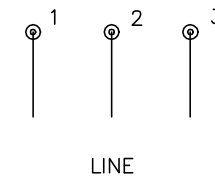
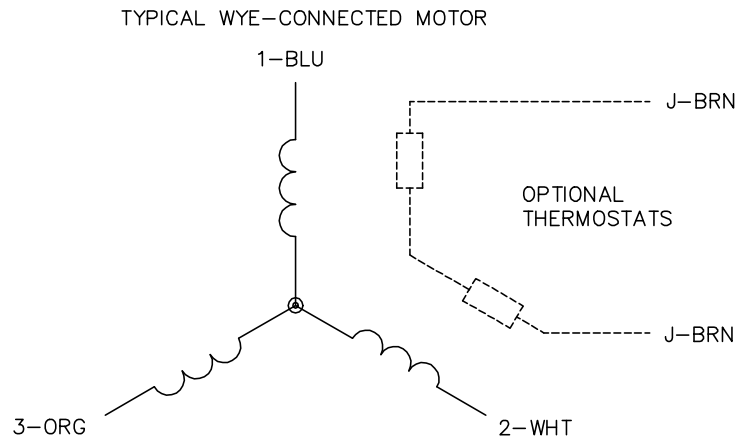
Typical performance - not guaranteed values.

TORQUES (N-M) : PO=52.3 PU=21.6 LR=30.7 LRA=36.3





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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