

ABB BALDOR RELIANCE III

Customer information packet

VECP3663T-4

5HP, 3500RPM, 3PH, 60HZ, 184TC, 0634M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	184TC
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	460.0 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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	5.700 A @ 460.0 V
Design Code	A
Drip Cover	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	S
Type	AC
Mech. spec.	06H480
Base	
Status	PRD/A
Elec. spec.	06WGX065
Layout	06LYH480
Eff. date	11-06-2023
CD Diagram	CD0006
Poles	02
Leads	3#16
Proprietary	False
Created date	03-21-2007

Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	5.7 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L
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	Flying Leads
Motor Standards	NEMA
Motor Type	0634M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.98 IN
Power Factor	90
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
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	3500 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

NP3257									
CAT.NO.	VECP3663T-4								
SPEC.	06H480X065G1								
HP	5 TE								
VOLTS	460								
AMP	5.7								
RPM	3500								
FRAME	184TC	HZ		60		PH		3	
SER.F.	1.15	CODE	L	DES	A	CL		F	
RATING	40C AMB-CONT								
SN									
DE	6206	ODE		6206					
NEMA-NOM-EFF	89.5	PF		90					
G.MIN.EFF	89.5	CC	010A						
T. CODE	T3C	T=	160						

NP3260			
SPEC.	06H480X065G1		
D.E. BRG.	30BC02XP30X		
O.D.E. BRG.	30BC02XP30X		
GREASE	POLYREX EM		
RPM MAX	5400	MAX. KVAR	N/A
BLANK			
INV.TYPE	PWM		
T=	160		
C HP FR	60	C HP TO	90
CT HZ FROM	6	CT HZ TO	60
VT HZ FROM	3	VT HZ TO	60
HTR-VOLTS		HTR-AMPS	
HTR-WATTS		MAX. SPACE HEATER TEMP.	

AC Induction Motor Performance Data

Record # 47072

Typical performance - not guaranteed values

Winding: 06WGX065-R031			Type: 0634M		Enclosure: TEFC			
Nameplate Data			460 V, 60 Hz: Single Voltage Motor					
Rated Output (HP)		5	Full Load Torque		7.45 LB-FT			
Volts		460	Start Configuration		direct on line			
Full Load Amps		5.7	Breakdown Torque		38.6 LB-FT			
R.P.M.		3500	Pull-up Torque		17.4 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		28.3 LB-FT		
NEMA Design Code		A	KVA Code	L	Starting Current		63.9 A	
Service Factor (S.F.)		1.15	No-load Current		1.65 A			
NEMA Nom. Eff.		89.5	Power Factor		90	Line-line Res. @ 25°C		2.4282 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		49°C	
S.F. Amps					Temp. Rise @ S.F. Load		59°C	
					Rotor inertia		0.153 LB-FT2	

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	63	83	89	93	93	93	93
Efficiency	82.5	88.6	89.8	89.7	88.9	87.7	89.2
Speed	3575.6	3551.3	3526.2	3498.2	3470.4	3439.8	3482
Line amperes	2.17	3.14	4.35	5.59	7.02	8.54	6.45

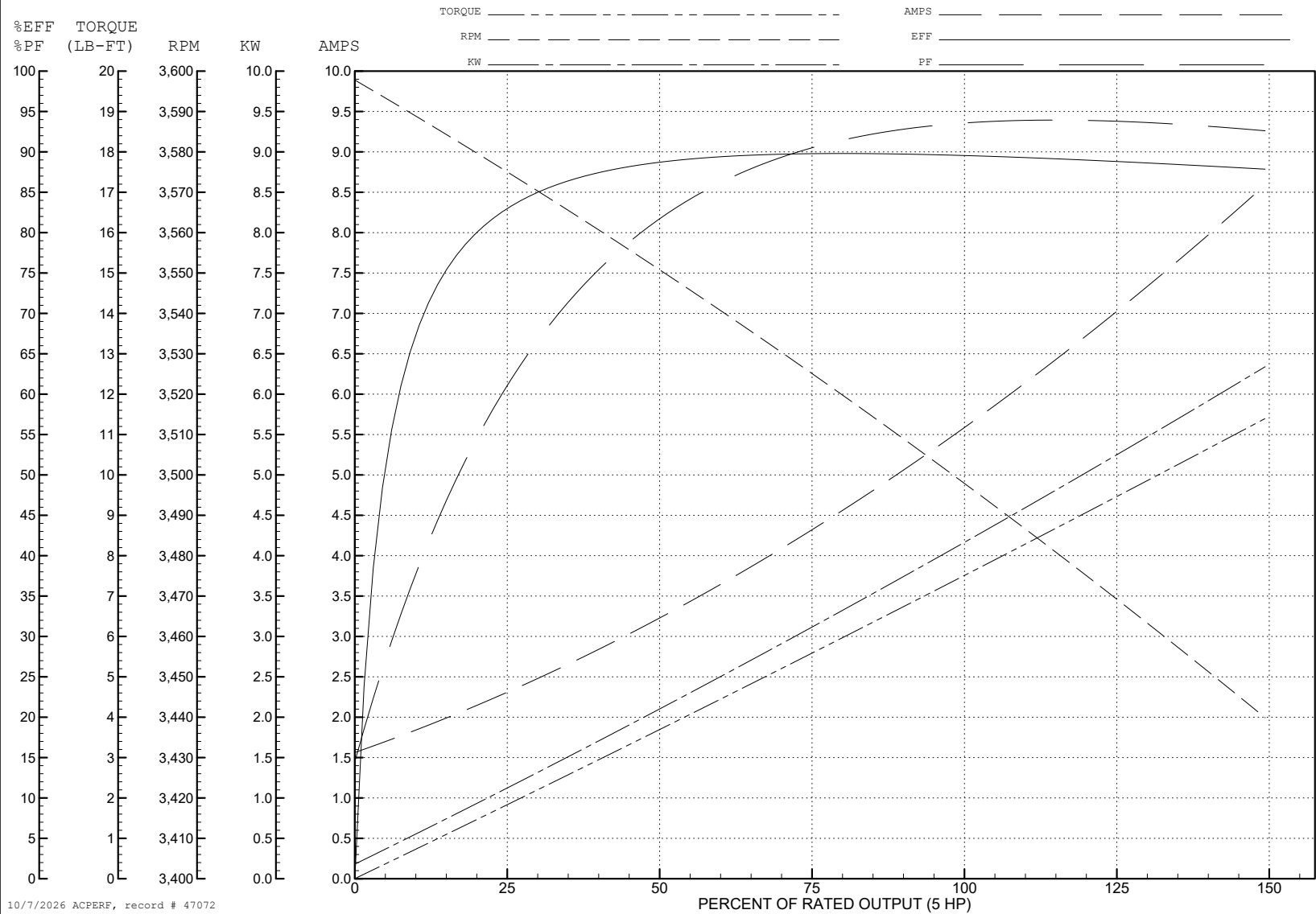
ABB Motors and Mechanical Inc.

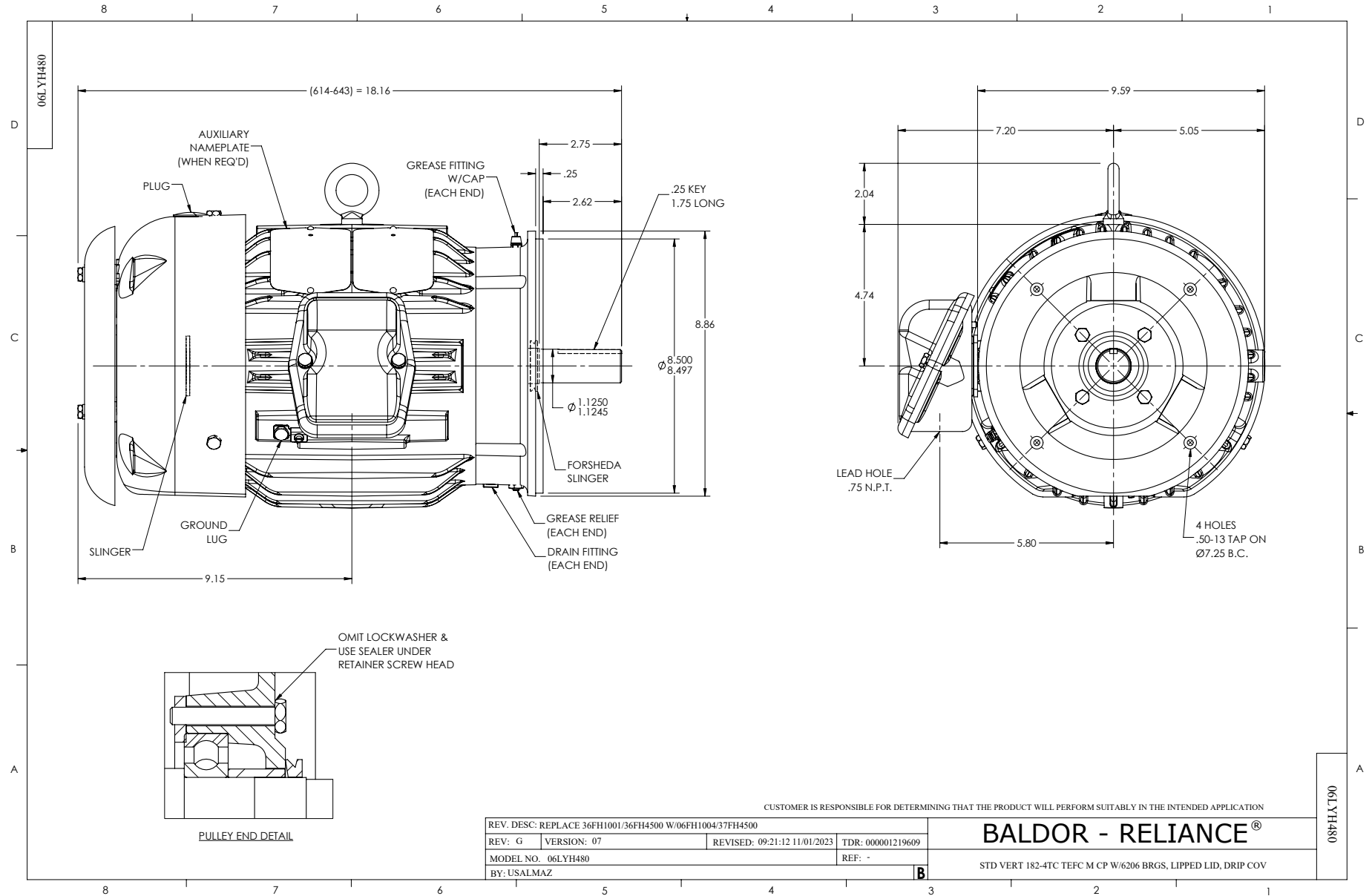
WINDING # 06WGX065

Typical performance - not guaranteed values.

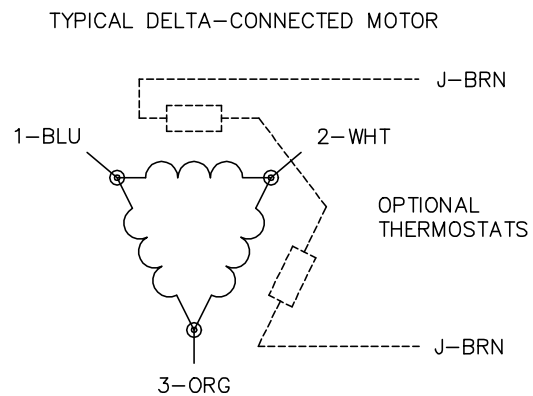
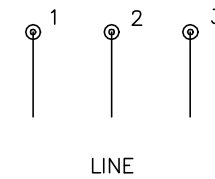
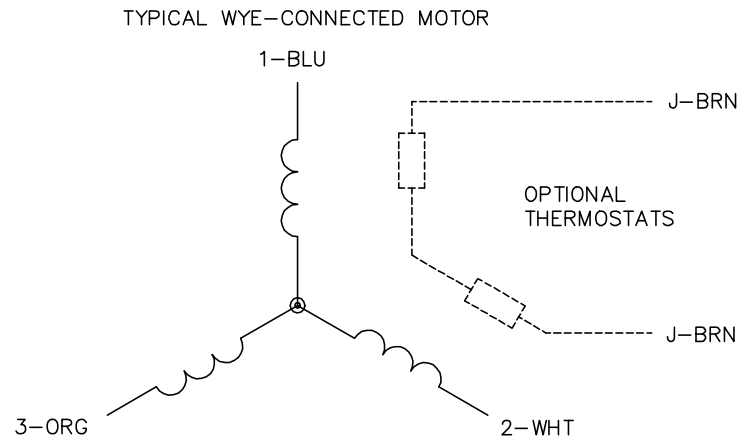
5 HP 3 PH 60 HZ 3500 RPM 460 V 0634M

TORQUES (LB-FT): PO=38.6 PU=17.4 LR=28.3 LRA=63.9





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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