ABB BALDOR RELIANCE

Customer information packet

VECP3665T-4

5HP, 1750RPM, 3PH, 60HZ, 184TC, 0641M, TEFC, F1
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	184TC
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	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	-0
Current @ Voltage	6.450 A @ 460.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	S
Type	AC
Mech. spec.	06H480
Base	
Status	PRD/A
Elec. spec.	06WGX203
Layout	06LYH480
Eff. date	10-01-2025
CD Diagram	CD0006
Poles	04
Leads	3#16
Proprietary	False
Created date	04-05-2012

Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	6.5 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	Flying Leads
Motor Standards	NEMA
Motor Type	0642M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.98 IN
Power Factor	81
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
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	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

NP3257								
CAT.NO.	VECP3665T-4							
SPEC.	06H480X203G1							
HP	5 TE							
VOLTS	460							
AMP	6.45							
RPM	1750							
FRAME	184TC	**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	J	**DES**	B	**CL**	F	
RATING	40C AMB-CONT							
SN								
DE	6206	**ODE**	6206					
NEMA-NOM-EFF	89.5	**PF**	81					
G.MIN.EFF	89.5	**CC**	010A					
T. CODE	T3C	**T=**	160					

NP3260					
SPEC.	06H480X203G1				
D.E. BRG.	30BC02XP30X				
O.D.E. BRG.	30BC02XP30X				
GREASE	POLYREX EM				
RPM MAX	2700	**MAX. KVAR**	1		
BLANK					
INV.TYPE	PWM				
T=	160				
C HP FR	60	**C HP TO**	90		
CT HZ FROM	1.7	**CT HZ TO**	60		
VT HZ FROM	0-	**VT HZ TO**	60		
HTR-VOLTS		**HTR-AMPS**			
HTR-WATTS		**MAX. SPACE HEATER TEMP.**			

AC Induction Motor Performance Data
Record # 116644
Typical performance - not guaranteed values

Winding: 06WGX203-R061	**Type:** 0642M	**Enclosure:** TEFC

Nameplate Data				**368 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			5	**Full Load Torque**	15.46 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			6.45	**Breakdown Torque**	21 LB-FT
R.P.M.			1750	**Pull-up Torque**	10.6 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	12.9 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	29.6 A
Service Factor (S.F.)			1.15	**No-load Current**	1.71 A
NEMA Nom. Eff.	89.5	**Power Factor**	81	**Line-line Res. @ 25ºC**	2.63 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	95°C
S.F. Amps				**Temp. Rise @ S.F. Load**	129°C
				Locked-rotor Power Factor	40.5
				Rotor inertia	0.391 lb-ft²

Load Characteristics 368 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	63	75	75	73	70	64	71
Efficiency	89.5	90.5	88.3	85.1	80.7	74	82.5
Speed	1779	1755	1728	1696	1654	1589	1671
Line amperes	2.49	4.27	6.59	9.46	12.92	18.55	11.5

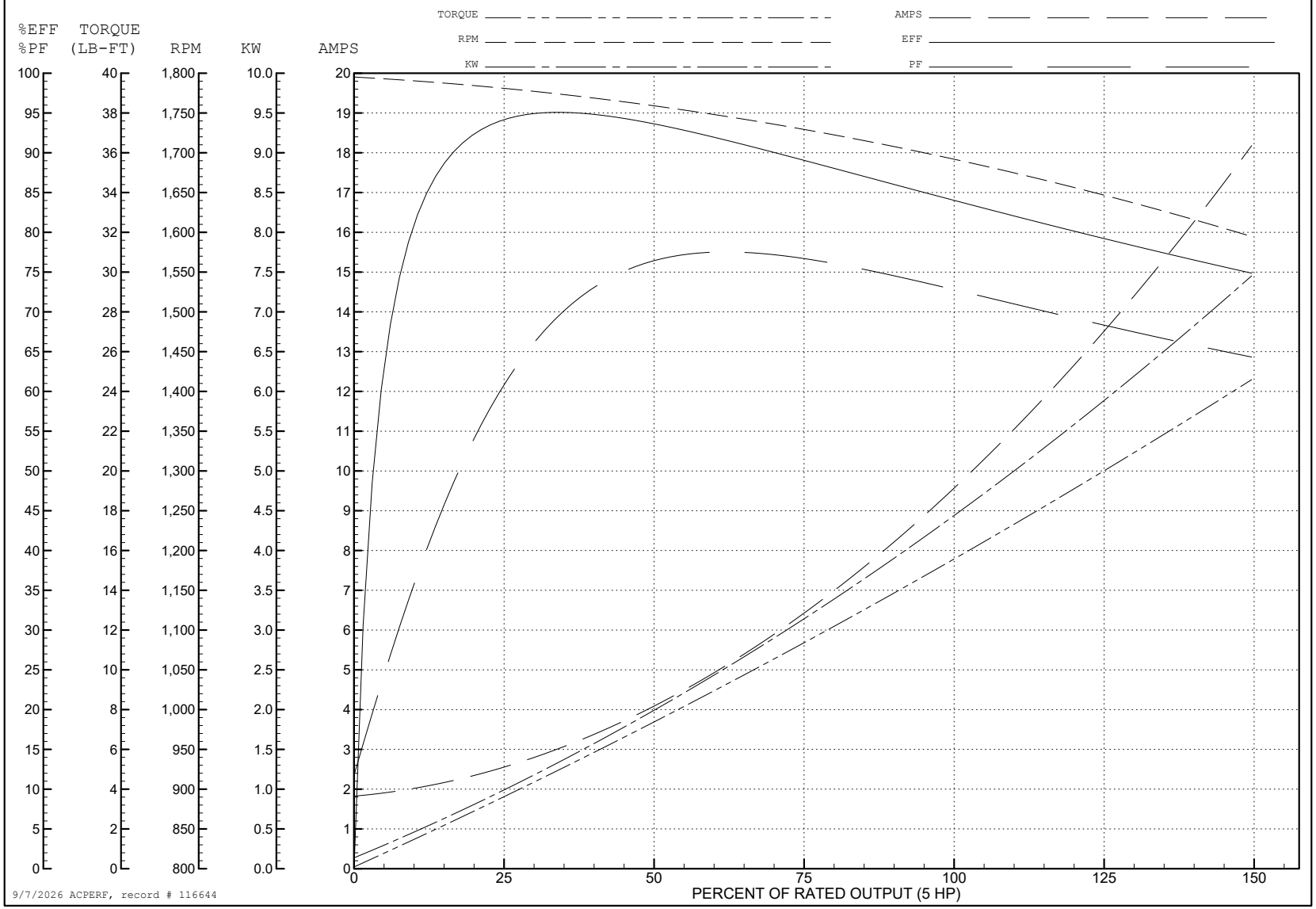
ABB Motors and Mechanical Inc.

WINDING # 06WGX203

5 HP 3 PH 60 HZ 1750 RPM 368 V 0642M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=21 PU=10.6 LR=12.9 LRA=29.6



AC Induction Motor Performance Data
Record # 117495
Typical performance - not guaranteed values

Winding: 06WGX203-R061	**Type:** 0642M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			5	**Full Load Torque**	15 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			6.45	**Breakdown Torque**	49.5 LB-FT
R.P.M.			1750	**Pull-up Torque**	25.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	31 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	44.7 A
Service Factor (S.F.)			1.15	**No-load Current**	3.02 A
NEMA Nom. Eff.	89.5	**Power Factor**	81	**Line-line Res. @ 25ºC**	2.63 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	40.5
				Rotor inertia	0.391 lb-ft²

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	41	63	75	81	84	85	83
Efficiency	85.1	89.7	90.3	89.8	88.4	86.8	89
Speed	1789	1777	1765	1752	1737	1721	1743
Line amperes	3.35	4.14	5.21	6.45	7.91	9.47	7.33

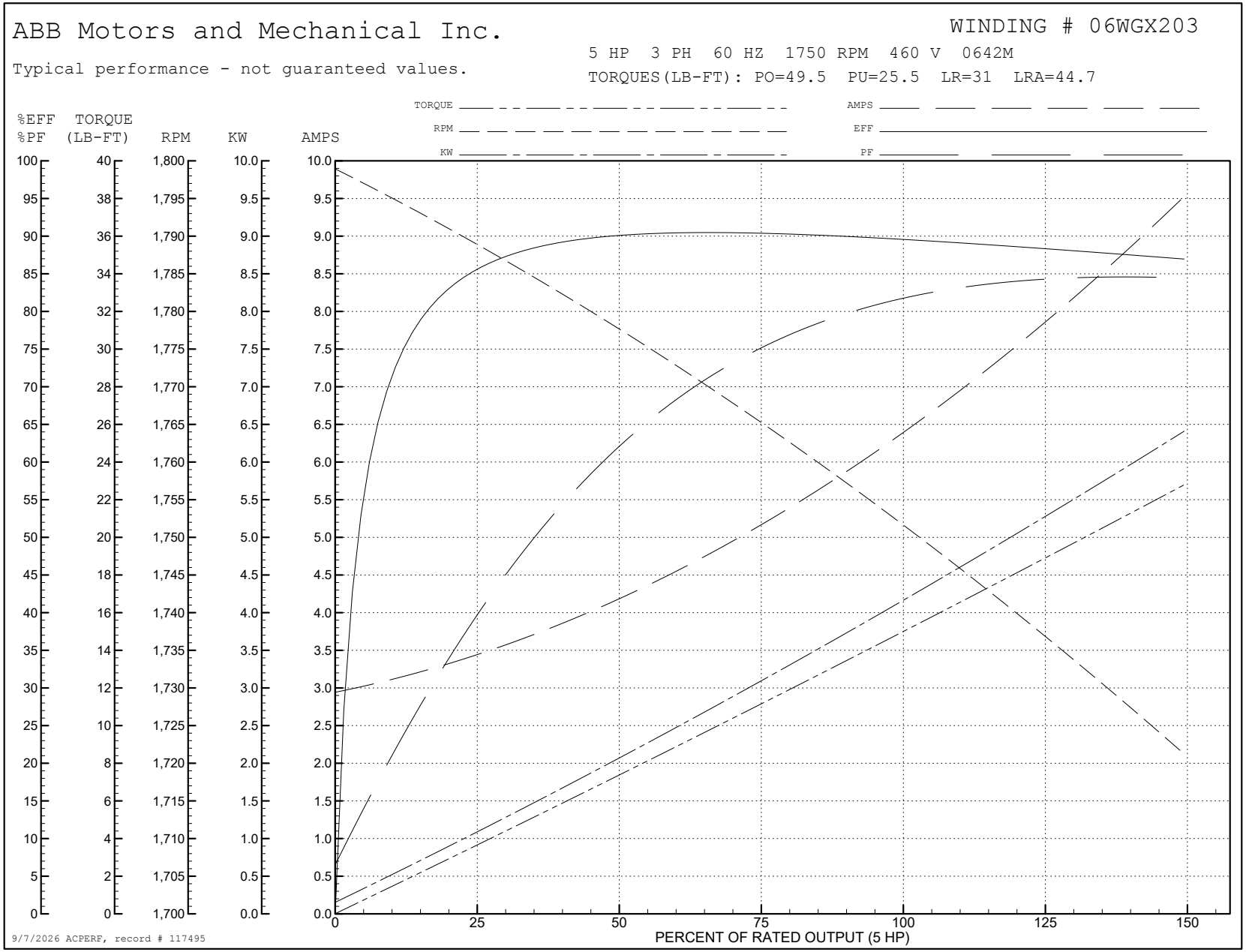
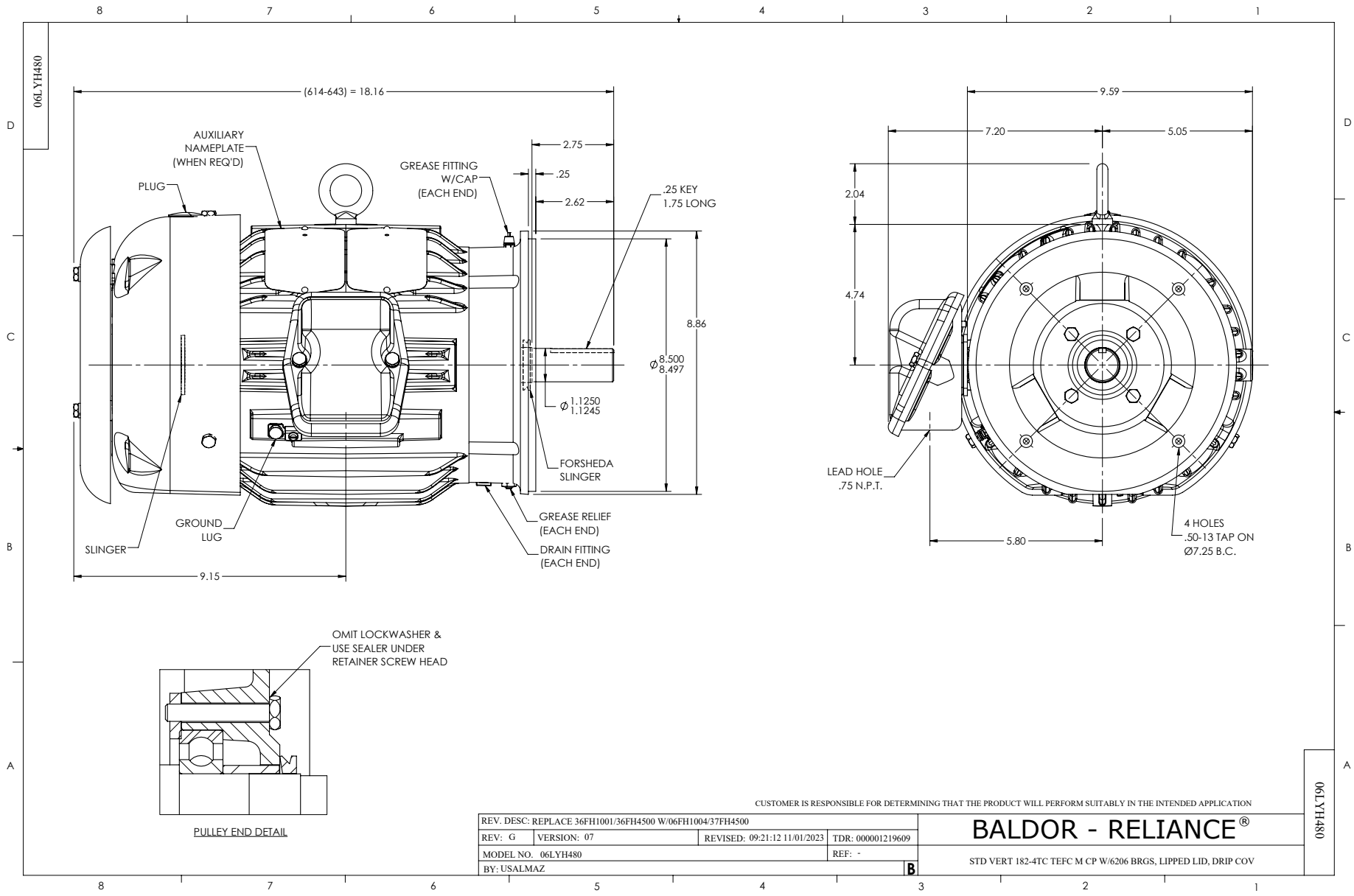
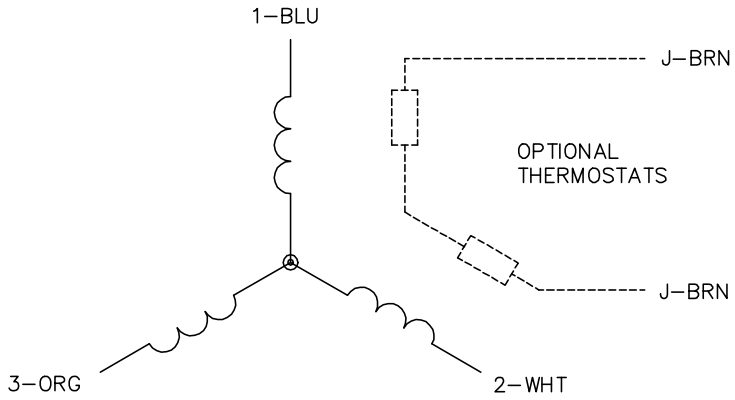


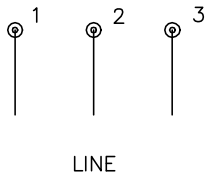
ABB Motors and Mechanical Inc.
WINDING # 06WGX203
5 HP 3 PH 60 HZ 1750 RPM 460 V 0642M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=49.5 PU=25.5 LR=31 LRA=44.7
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (5 HP)
9/7/2026 ACPERF, record # 117495


06LYH480
(614-643) = 18.16
AUXILIARY NAMEPLATE (WHEN REQ'D)
PLUG
GREASE FITTING W/CAP (EACH END)
2.75
.25
2.62
.25 KEY 1.75 LONG
8.86
Ø 8.500 8.497
Ø 1.1250 1.1245
FORSHEDA SLINGER
GREASE RELIEF (EACH END)
DRAIN FITTING (EACH END)
GROUND LUG
SLINGER
9.15
9.59
7.20
5.05
2.04
4.74
LEAD HOLE .75 N.P.T.
5.80
4 HOLES .50-13 TAP ON Ø7.25 B.C.
OMIT LOCKWASHER & USE SEALER UNDER RETAINER SCREW HEAD
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: REPLACE 36FH1001/36FH4500 W/06FH1004/37FH4500
REV: G
VERSION: 07
REVISED: 09:21:12 11/01/2023
TDR: 000001219609
MODEL NO. 06LYH480
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
STD VERT 182-4TC TEFC M CP W/6206 BRGS, LIPPED LID, DRIP COV
06LYH480

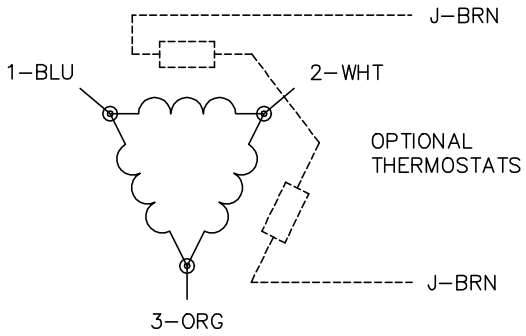
CD0006

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

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

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

SH 1 of 1