ABB BALDOR RELIANCE

Customer information packet

VLECP83665T-4

42M 4P TEFC VER 184LP CHEM PROC, SP#32-8
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	184LP
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 UR CSA
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	6.600 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 Shaft Indicator	None
Haz Area Temp Code	T3C

Part Detail

Revision	L
Type	AC
Mech. spec.	06J487
Base	
Status	PRD/A
Elec. spec.	06WGX203
Layout	06LYJ487
Eff. date	08-15-2025
CD Diagram	CD0006
Poles	04
Leads	3#16
Proprietary	False
Created date	03-27-2019

Heater Indicator	No Heater
High Voltage Full Load Amps	6.6 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP56
KVA Code	J
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0642M
Mounting Arrangement	W6
Number of Poles	4
Overall Length	22.68 IN
Power Factor	79
Product Family	Chem Process S/P 32-8 IEEE 841
Pulley End Bearing Type	Ball
Pulley Face Code	P-Base
Pulley Shaft Indicator	P-Base Groove & Key
Rodent Screen	None
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 - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP4328								
CAT.NO.	VLECP83665T-4							
SPEC.	06J487X203G1							
HP	5 TE			**IP**	56			
VOLTS	460							
AMPS	6.45							
R.P.M.	1750							
FRAME	184LP	**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	J	**DES.**	B	**CLASS**	F	
RATING	40C AMB-CONT							
SN								
DE	6307	**ODE**	7305					
NEMA NOM. EFF.	89.5	**P.F.**	81					
GUAR. MIN. EFF.	87.5	**CC**	010A					
T. CODE	T3C	**TEMP=**	160					

NP3186							
SPEC.	06J487X203G1						
ABMA DE BRG	35BC03X30X						
ABMA ODE BRG	25BC03X30X						
GREASE	POLYREX EM						
MOTOR WEIGHT	115	**ROTOR BARS**	28	**STATOR BARS**	36		
MAX. R.P.M.	2700	**MAX. KVAR**	1				
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	N/A	**MAX. SPACE HEATER TEMP.**			N/A		

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

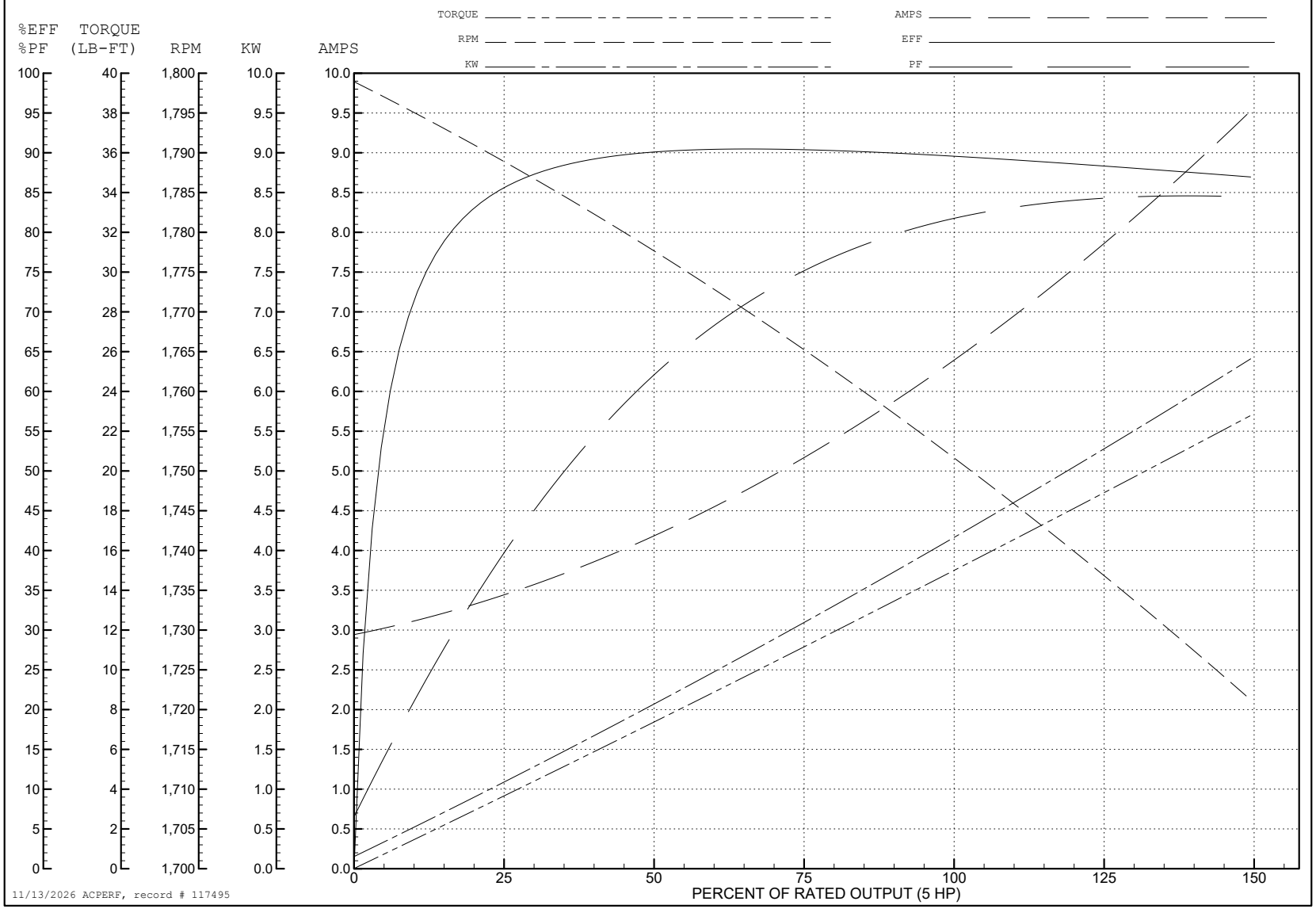
ABB Motors and Mechanical Inc.

WINDING # 06WGX203

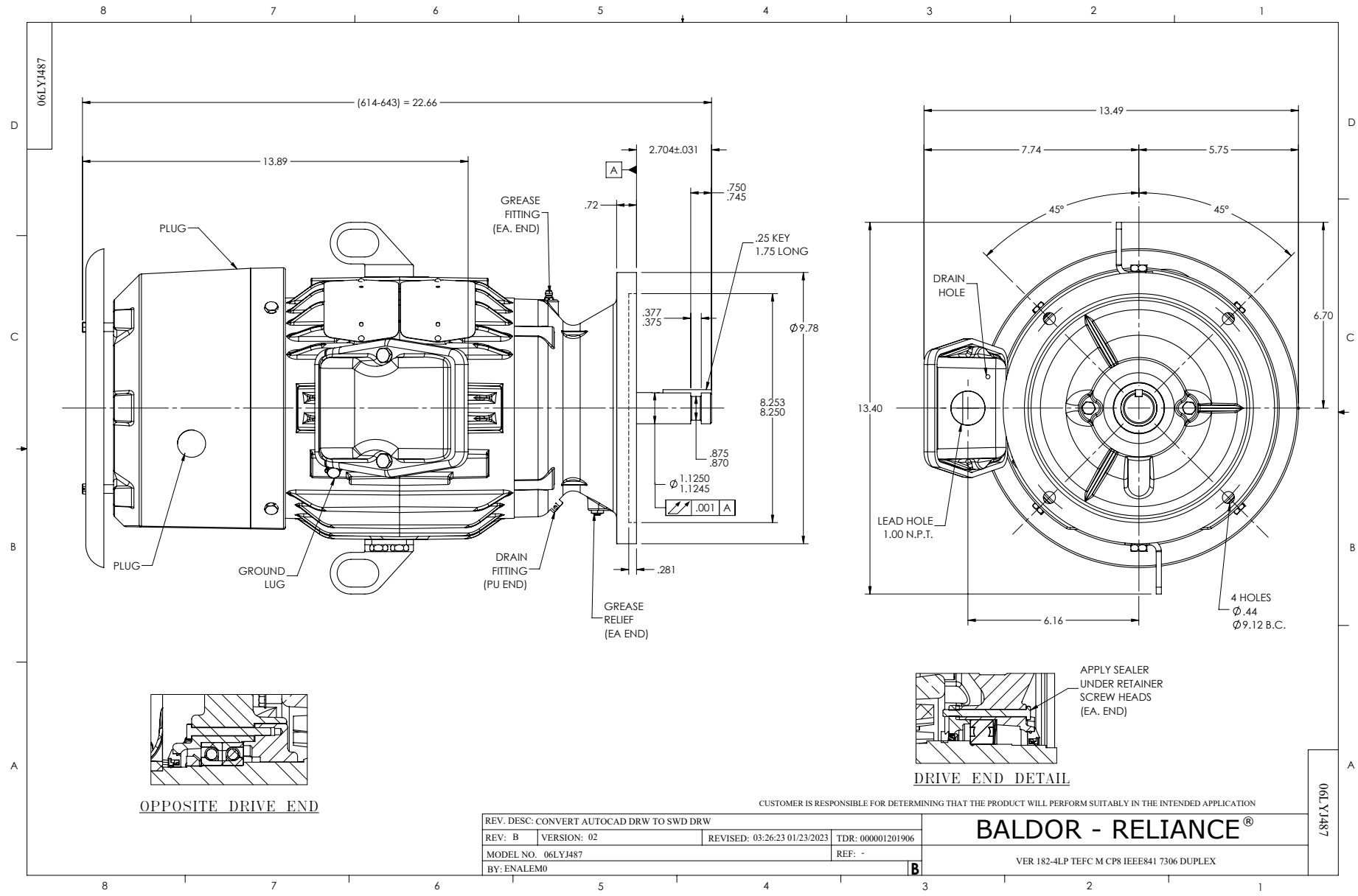
5 HP 3 PH 60 HZ 1750 RPM 460 V 0642M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=49.5 PU=25.5 LR=31 LRA=44.7

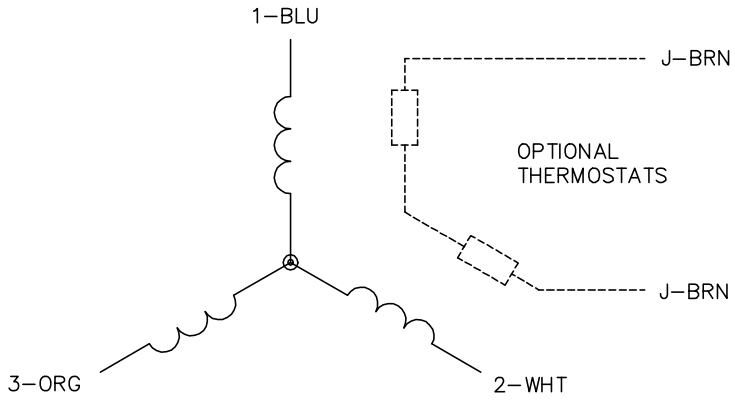


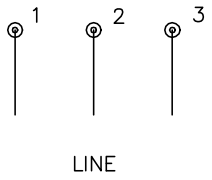
11/13/2026 ACPERF, record # 117495


06LYJ487
(614-643) = 22.66
13.89
2.704±.031
A
.750
.745
.72
GREASE FITTING (EA. END)
PLUG
.25 KEY
1.75 LONG
.377
.375
Ø9.78
8.253
8.250
.875
.870
Ø 1.1250
1.1245
.001 A
.281
PLUG
GROUND LUG
DRAIN FITTING (PU END)
GREASE RELIEF (EA END)
13.49
7.74
5.75
45°
45°
DRAIN HOLE
6.70
13.40
LEAD HOLE 1.00 N.P.T.
4 HOLES Ø.44 Ø9.12 B.C.
6.16
APPLY SEALER UNDER RETAINER SCREW HEADS (EA. END)
OPPOSITE DRIVE END
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: B
VERSION: 02
REVISED: 03:26:23 01/23/2023
TDR: 000001201906
MODEL NO. 06LYJ487
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
VER 182-4LP TEFC M CP8 IEEE841 7306 DUPLEX
06LYJ487

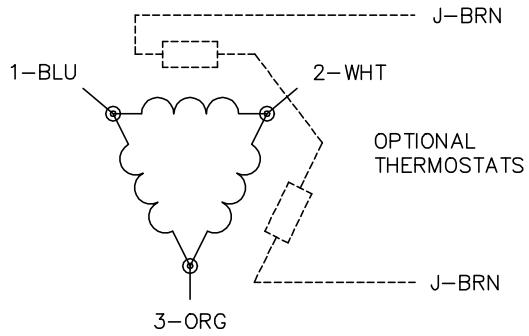
CD0006

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

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

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

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