

ABB BALDOR RELIANCE III

Customer information packet

VLECP83774T-4

48M 4P TEFC VER 215LP CHEM PROC, SP#32-8

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	215LP
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	10.000 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	12.200 A @ 460.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
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	G
Type	AC
Mech. spec.	07D516
Base	
Status	PRD/A
Elec. spec.	07WGX813
Layout	07LYD516
Eff. date	06-18-2026
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	03-27-2019

Heater Indicator	No Heater
High Voltage Full Load Amps	12.2 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP56
KVA Code	H
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0748M
Mounting Arrangement	W6
Number of Poles	4
Overall Length	24.71 IN
Power Factor	83
Product Family	Chem Process S/P 32-8 IEEE 841
Pulley End Bearing Type	Roller
Pulley Face Code	P-Base
Pulley Shaft Indicator	P-Base Groove & Key
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1760 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.	VLECP83774T-4								
SPEC.	07D516X813G1								
HP	10 TE				IP	56			
VOLTS	460								
AMPS	12.2								
R.P.M.	1760								
FRAME	215LP		HZ		60		PH	3	
SER.F.	1.15	CODE	H	DES.	B	CLASS	F		
RATING	40C AMB-CONT								
SN									
DE	6309		ODE		7306				
NEMA NOM. EFF.	91.7		P.F.		83				
GUAR. MIN. EFF.	90.2		CC		010A				
T. CODE	T3C		TEMP=		160				

NP3186					
SPEC.	07D516X813G1				
ABMA DE BRG	45BC03X30X				
ABMA ODE BRG	30BT03X30X				
GREASE	POLYREX EM				
MOTOR WEIGHT	231	ROTOR BARS	28	STATOR BARS	36
MAX. R.P.M.	2700	MAX. KVAR	1.53		
INV.TYPE	PWM				
T=	160				
CHP	60	TO	90		
CT	-0	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 # 72727

Typical performance - not guaranteed values

Winding: 07WGX813-R019				Type: 0748M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		10		Full Load Torque		29.8 LB-FT		
Volts		460		Start Configuration		direct on line		
Full Load Amps		12.2		Breakdown Torque		80.9 LB-FT		
R.P.M.		1760		Pull-up Torque		40.2 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		52.6 LB-FT		
NEMA Design Code		B	KVA Code	H	Starting Current		81 A	
Service Factor (S.F.)		1.15		No-load Current		4.44 A		
NEMA Nom. Eff.		91.7	Power Factor	83	Line-line Res. @ 25°C		1.08 Ω	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		64°C
S.F. Amps						Temp. Rise @ S.F. Load		81°C
						Locked-rotor Power Factor		35.1
						Rotor inertia		1.18 LB-FT2

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	71	80	83	85	85	84
Efficiency	90.3	92.4	92.9	92.1	90.9	89.1	91.4
Speed	1791	1782	1774	1760	1751	1737	1755
Line amperes	5.24	7.1	9.42	12.17	15.24	18.69	14

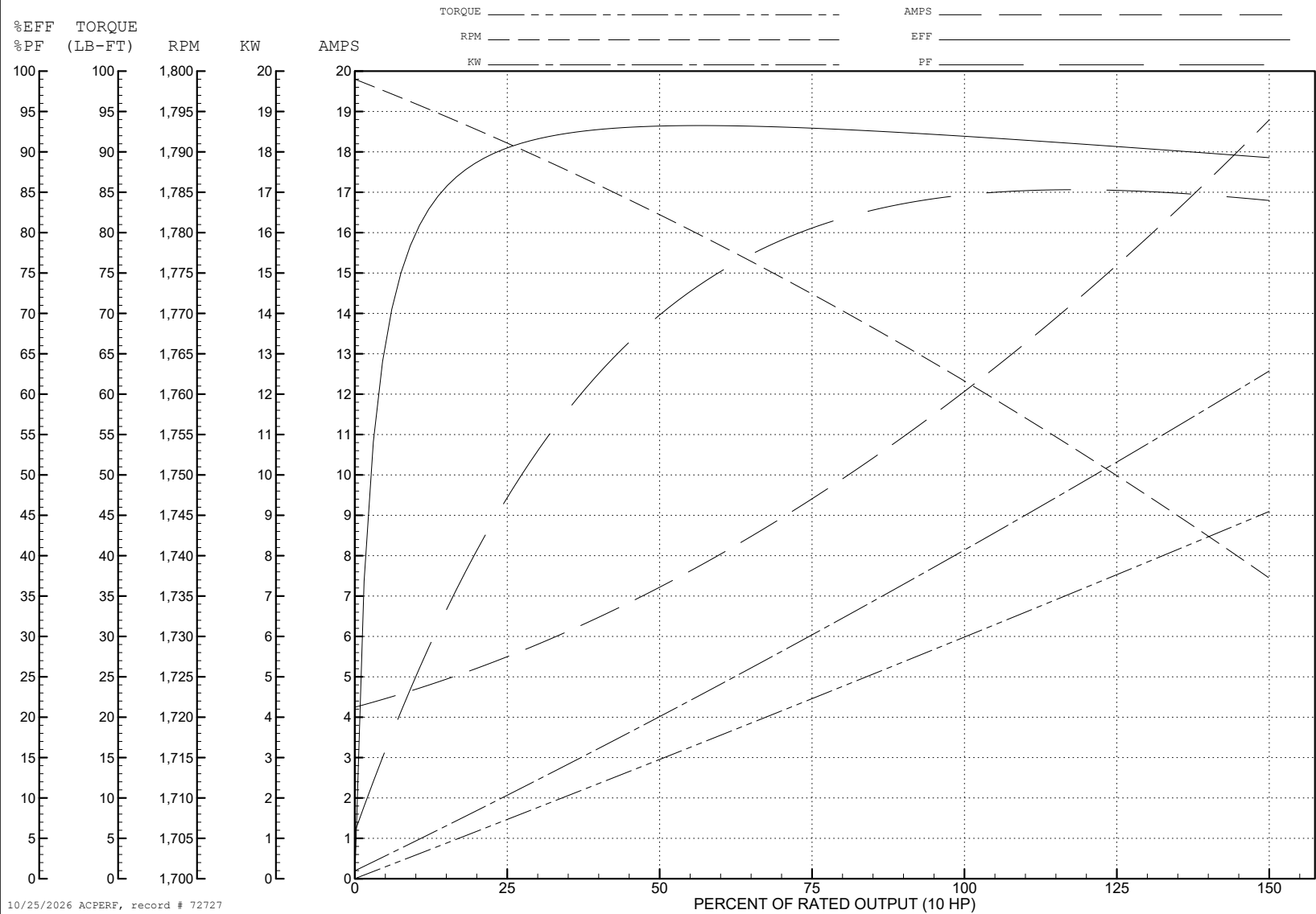
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WINDING # 07WGX813

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1760 RPM 460 V 0748M

TORQUES (LB-FT): PO=80.9 PU=40.2 LR=52.6 LRA=81



10/25/2026 ACPERF, record # 72727

AC Induction Motor Performance Data

Record # 72728

Typical performance - not guaranteed values

Winding: 07WGX813-R019				Type: 0748M		Enclosure: TEFC	
Nameplate Data				368 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		10		Full Load Torque		30.13 LB-FT	
Volts		460		Start Configuration		direct on line	
Full Load Amps		12.2		Breakdown Torque		51.4 LB-FT	
R.P.M.		1760		Pull-up Torque		25.36 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		33.19 LB-FT	
NEMA Design Code		B	KVA Code	H	Starting Current		64.28 A
Service Factor (S.F.)		1.15		No-load Current		3.42 A	
NEMA Nom. Eff.		91.7	Power Factor	83	Line-line Res. @ 25°C		1.08 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		83°C	
S.F. Amps				Temp. Rise @ S.F. Load		113°C	
				Locked-rotor Power Factor		34.8	
				Rotor inertia		1.18 LB-FT2	

Load Characteristics 368 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	66	82	86	86	84	80	85
Efficiency	92.5	92.7	92	90.2	87.6	83.5	88.6
Speed	1787	1774	1760	1740	1721	1686	1729
Line amperes	4.82	7.66	11.07	15.1	19.9	26.34	18

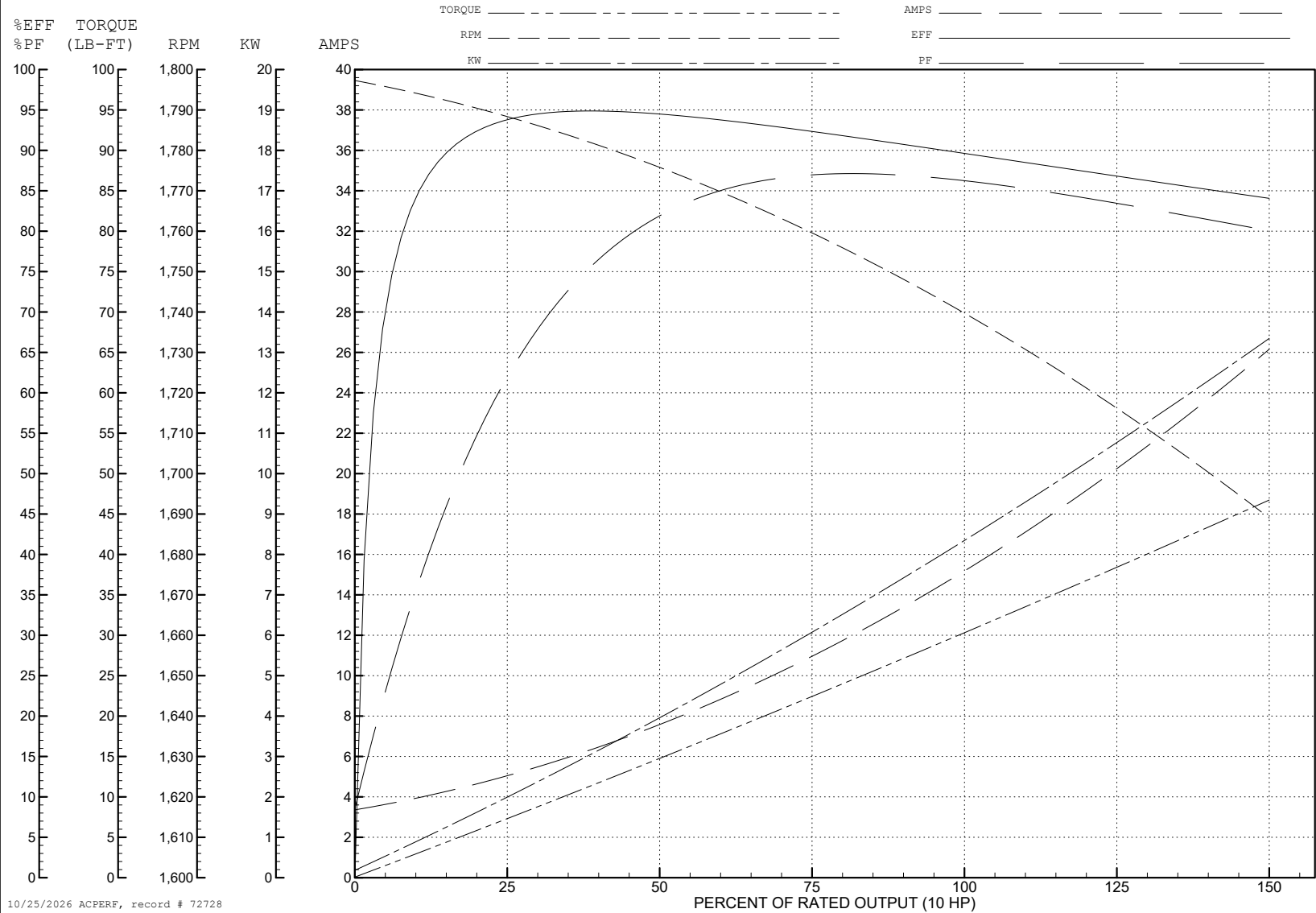
ABB Motors and Mechanical Inc.

WINDING # 07WGX813

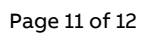
Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1760 RPM 368 V 0748M

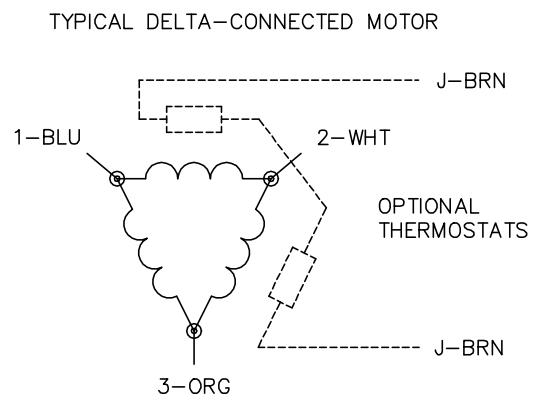
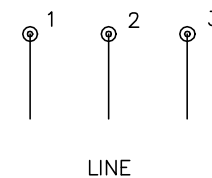
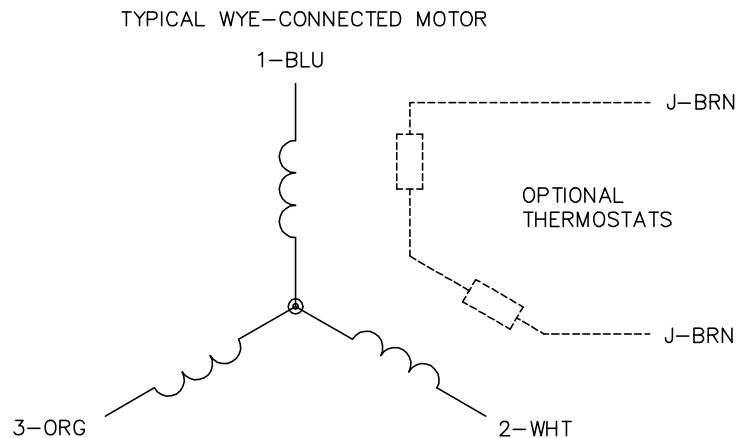
TORQUES (LB-FT): PO=51.4 PU=25.36 LR=33.19 LRA=64.28



10/25/2026 ACPERF, record # 72728



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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