

ABB BALDOR RELIANCE III

Customer information packet

VLECP83769T-4

32M 2P TEFC VER 213LP CHEM PROC, SP#32-8

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	213LP
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	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	6
Current @ Voltage	8.600 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	J
Type	AC
Mech. spec.	07D516
Base	
Status	PRD/A
Elec. spec.	07WGY929
Layout	07LYD516
Eff. date	06-18-2026
CD Diagram	CD0006
Poles	02
Leads	3#14
Proprietary	False
Created date	03-25-2019

Heater Indicator	No Heater
High Voltage Full Load Amps	8.6 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	5400 rpm
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0732M
Mounting Arrangement	W6
Number of Poles	2
Overall Length	24.71 IN
Power Factor	88
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	3510 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.	VLECP83769T-4								
SPEC.	07D516Y929G1								
HP	7.5 TE			IP	56				
VOLTS	460								
AMPS	8.9								
R.P.M.	3480								
FRAME	213LP		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.	89.5		P.F.	89					
GUAR. MIN. EFF.	87.5		CC	010A					
T. CODE	T3C		TEMP=	160					

NP3186					
SPEC.	07D516Y929G1				
ABMA DE BRG	45BC03X30X				
ABMA ODE BRG	30BT03X30X				
GREASE	POLYREX EM				
MOTOR WEIGHT	171	ROTOR BARS	28	STATOR BARS	36
MAX. R.P.M.	5400	MAX. KVAR	0.34		
INV.TYPE	PWM				
T=	160				
CHP	60	TO	90		
CT	6	TO	60		
VT	6	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 # 95372

Typical performance - not guaranteed values

Winding: 07WGY929-R034			Type: 0732M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		7.5		Full Load Torque		11.38 LB-FT	
Volts		460		Start Configuration		direct on line	
Full Load Amps		8.9		Breakdown Torque		40.1 LB-FT	
R.P.M.		3480		Pull-up Torque		18 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		21.6 LB-FT	
NEMA Design Code		B	KVA Code	H		Starting Current	62 A
Service Factor (S.F.)		1.15		No-load Current		2.79 A	
NEMA Nom. Eff.		89.5	Power Factor	89		Line-line Res. @ 25°C	1.1813 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		20°C	
S.F. Amps				Temp. Rise @ S.F. Load		24°C	
				Locked-rotor Power Factor		31.7	
				Rotor inertia		0.292 lb-ft²	

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	60	79	86	89	90	91	90
Efficiency	86	90.4	91.2	90.7	89.8	88.5	90.2
Speed	3574	3551	3528	3503	3476	3446	3487
Line amperes	3.53	4.96	6.84	8.87	11	13.3	10.1

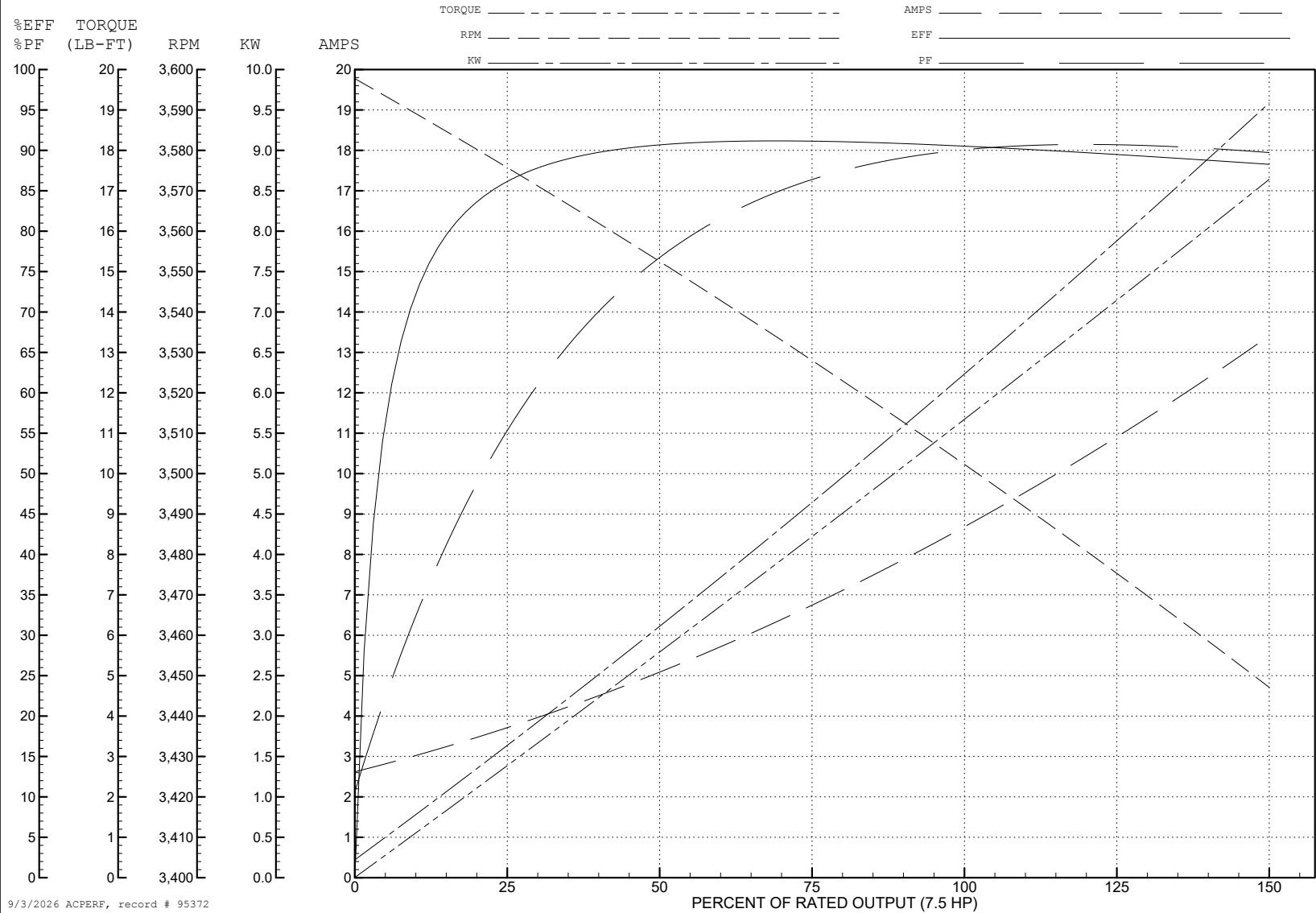
ABB Motors and Mechanical Inc.

WINDING # 07WGY929

Typical performance - not guaranteed values.

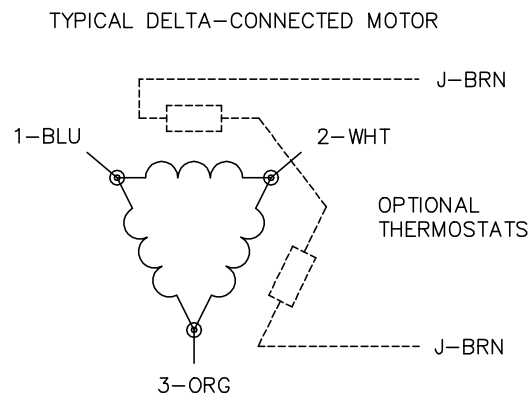
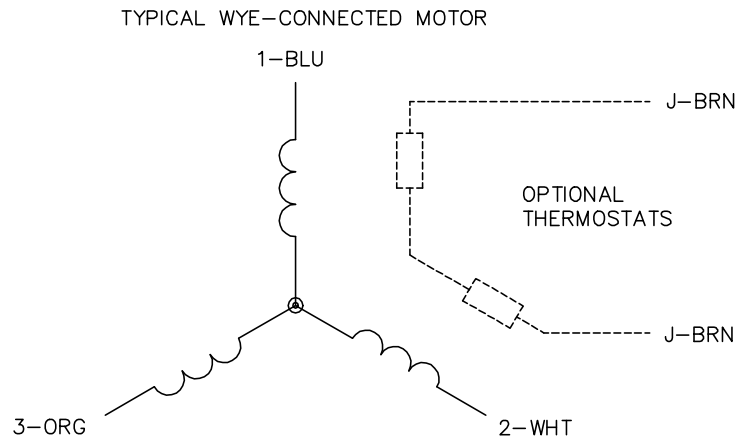
7.5 HP 3 PH 60 HZ 3480 RPM 460 V 0732M

TORQUES (LB-FT): PO=40.1 PU=18 LR=21.6 LRA=62





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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