

ABB BALDOR RELIANCE III

Customer information packet

VECP83774T-4

10HP, 1760RPM, 3PH, 60HZ, 215TC, 0748M, TEFC, F

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	215TC
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	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 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	1.3
Current @ Voltage	12.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	AF
Type	AC
Mech. spec.	07M323
Base	
Status	PRD/A
Elec. spec.	07WGX813
Layout	07LYM323
Eff. date	10-01-2025
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	08-21-2012

Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	12.5 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
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 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0748M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.24 IN
Power Factor	81
Product Family	Chem Process S/P 32-8 IEEE 841
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1765 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

NP4328									
CAT.NO.	VECP83774T-4								
SPEC.	07M323X813G1								
HP	10 TE			IP	56				
VOLTS	460								
AMPS	12.3								
R.P.M.	1765								
FRAME	215TC		HZ	60		PH	3		
SER.F.	1.15	CODE	H	DES.	B	CLASS	F		
RATING	40C AMB-CONT								
SN									
DE	6307		ODE	6307					
NEMA NOM. EFF.	91.7		P.F.	81					
GUAR. MIN. EFF.	90.2		CC	010A					
T. CODE	T3C		TEMP=	160					

NP3186									
SPEC.	07M323X813G1								
ABMA DE BRG	35BC03X30X								
ABMA ODE BRG	35BC03X30X								
GREASE	POLYREX EM								
MOTOR WEIGHT	231	ROTOR BARS			STATOR BARS			36	
MAX. R.P.M.	2700	MAX. KVAR			1.95				
INV.TYPE	PWM								
T=	160								
CHP	60	TO	90						
CT	1.2	TO	60						
VT	0-	TO	60						
HTR-VOLTS	N/A	HTR-AMPS			N/A				
HTR-WATTS				MAX. SPACE HEATER TEMP.					N/A

AC Induction Motor Performance Data

Record # 92588

Typical performance - not guaranteed values

Winding: 07WGX813-R059				Type: 0748M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		10		Full Load Torque		29.85 LB-FT		
Volts		460		Start Configuration		direct on line		
Full Load Amps		12.3		Breakdown Torque		80.65 LB-FT		
R.P.M.		1765		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		4.45 A		
NEMA Nom. Eff.		91.7	Power Factor	81		Line-line Res. @ 25°C		1.08 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		65°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	51	72	80	83	85	85	84
Efficiency	87.3	90.8	91.7	91.7	90.2	88.5	91
Speed	1791	1782	1774	1763	1751	1737	1756
Line amperes	5.29	7.18	9.54	12.29	15.36	18.81	14

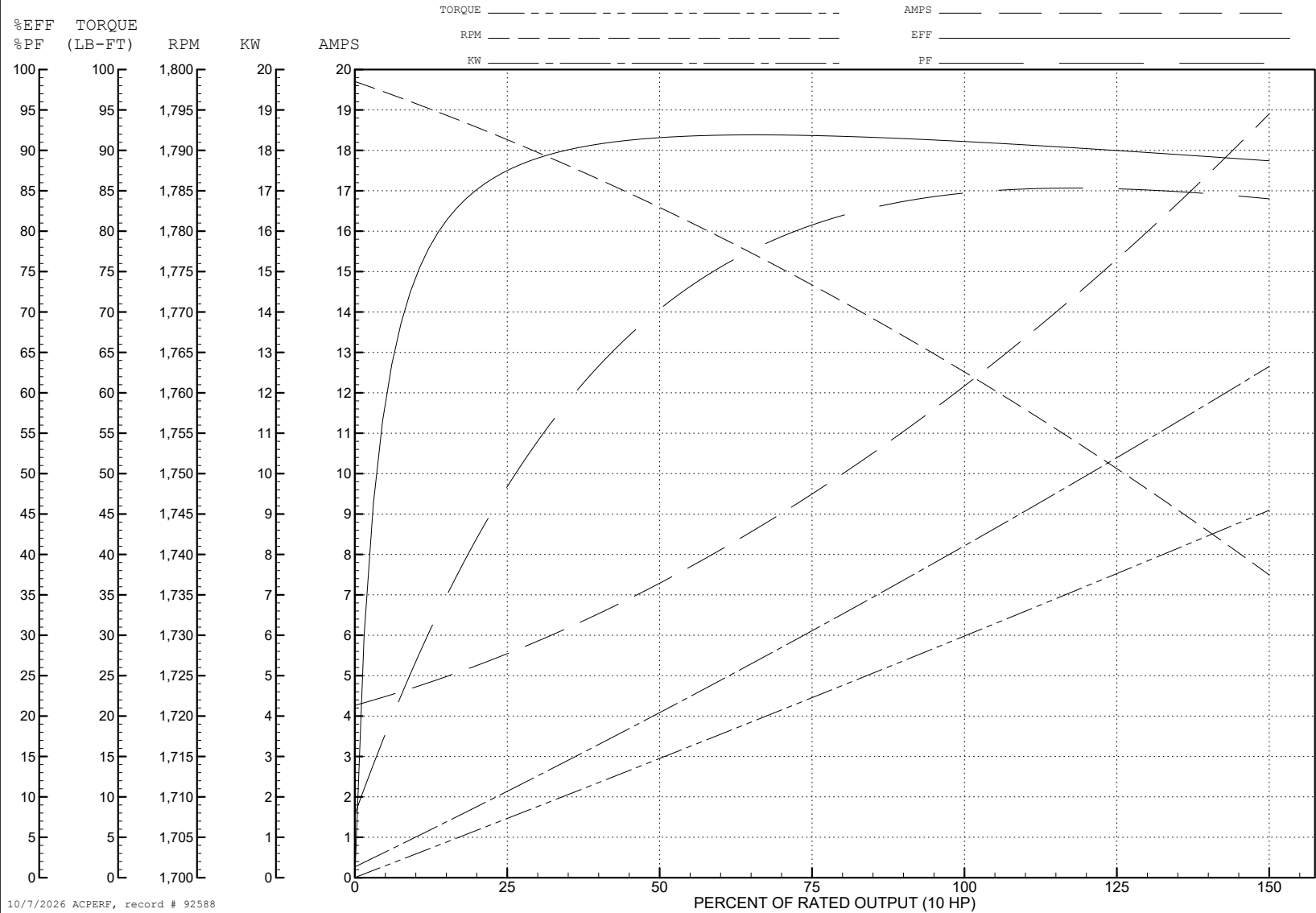
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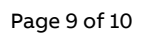
WINDING # 07WGX813

Typical performance - not guaranteed values.

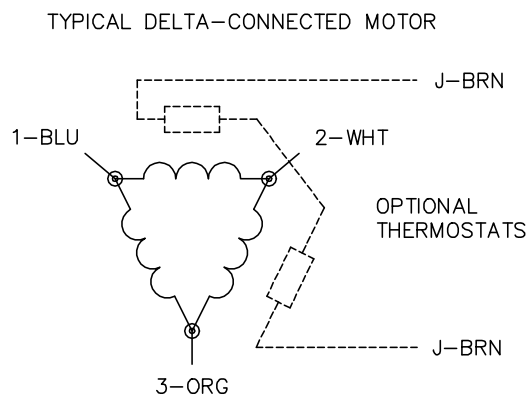
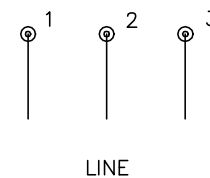
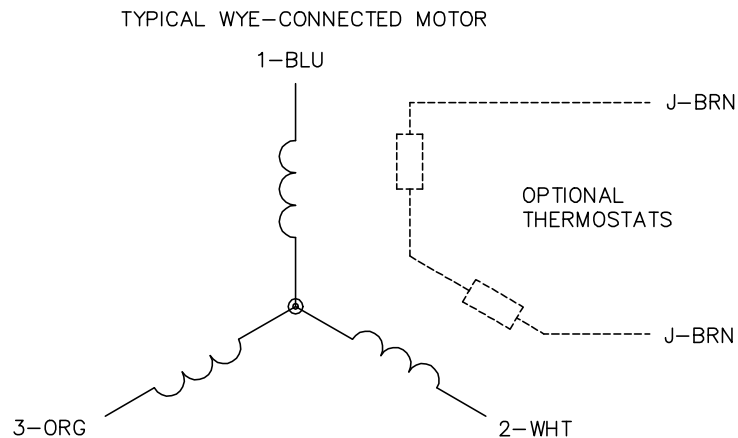
10 HP 3 PH 60 HZ 1765 RPM 460 V 0748M

TORQUES (LB-FT): PO=80.65 PU=40.2 LR=52.6 LRA=81





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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