

ABB BALDOR RELIANCE III

Customer information packet

ECP62333TR-4

15HP, 1760RPM, 3PH, 60HZ, 254T, 0944M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	254T
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	15.000 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	Rigid
Bearing Grease Type	Mobilith SHC220, HC9455
Blower	None
Constant Torque Speed Range	1.3
Current @ Voltage	17.600 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	AL
Type	AC
Mech. spec.	09K884
Base	
Status	PRD/A
Elec. spec.	09WGZ997
Layout	09LYK884
Eff. date	09-09-2024
CD Diagram	CD0006
Poles	04
Leads	3#12
Proprietary	False
Created date	09-17-2013

Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	17.6 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	G
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 @ 12 AWG
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Motor Type	0944M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	24.86 IN
Power Factor	85
Product Family	Chem Process S/P 32-8 IEEE 841
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
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 - Bearing	None

Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate
NP4367

CAT.NO.	ECP62333TR-4			CUST. P/N						ENCL	TEFC			
SPEC.	09K884Z997			CC	010A	FRAME	254T		SER.NO.					
HP	15			CLASS	F	HZ	60	ODE BRG	6309	DE BRG	NU309			
R.P.M.	1760	MAX. R.P.M.		2700	PH.	3	DES.	B	ABMA DE BRG		45RU03X30X			
VOLTS	460			CODE	G	ABMA ODE BRG			45BC03X30X					
AMPS	17.6			MOTOR WT.		324	LUBRICATION		MOBIL SHC 222					
RATING	40C AMB-CONT			MAX. KVAR		3.5	BLANK		AIR COOLED HEAT					
NEMA NOM. EFF.	92.4	# OF ROTOR BARS		40	SER.F.	1.15	IP	56	EXCHANGER					
GUAR.MIN.EFF	91	# OF STATOR SLOTS		48	P.F.	85	1.0 S.F. ON		PWM					
TEMP CODE	T3C		INVERTER TEMP CODE:TEMP=			180								
TEMP =	160	CHP	60	TO	90									
CT	1.3	TO	60											
VOLTS		AMPS		WATTS		MAX. SPACE HEATER TEMP.					VT	O	TO	60

AC Induction Motor Performance Data

Record # 92350

Typical performance - not guaranteed values

Winding: 09WGZ997-R019			Type: 0944M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		15	Full Load Torque		44.6 LB-FT	
Volts		460	Start Configuration		direct on line	
Full Load Amps		17.6	Breakdown Torque		163 LB-FT	
R.P.M.		1760	Pull-up Torque		53.3 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque	73.2 LB-FT	
NEMA Design Code	B	KVA Code	G	Starting Current	116 A	
Service Factor (S.F.)		1.15	No-load Current		6.19 A	
NEMA Nom. Eff.	92.4	Power Factor	85	Line-line Res. @ 25°C	0.62 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		50°C	
S.F. Amps			Temp. Rise @ S.F. Load		62°C	
			Locked-rotor Power Factor		32.7	
			Rotor inertia		1.92 lb-ft²	

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	52	73	84	86	87	88	87
Efficiency	89.4	92.6	93	92.4	91.4	90.3	91.9
Speed	1792	1783	1773	1763	1752	1739	1756
Line amperes	7.44	10.3	13.5	17.6	22	26.6	20.2

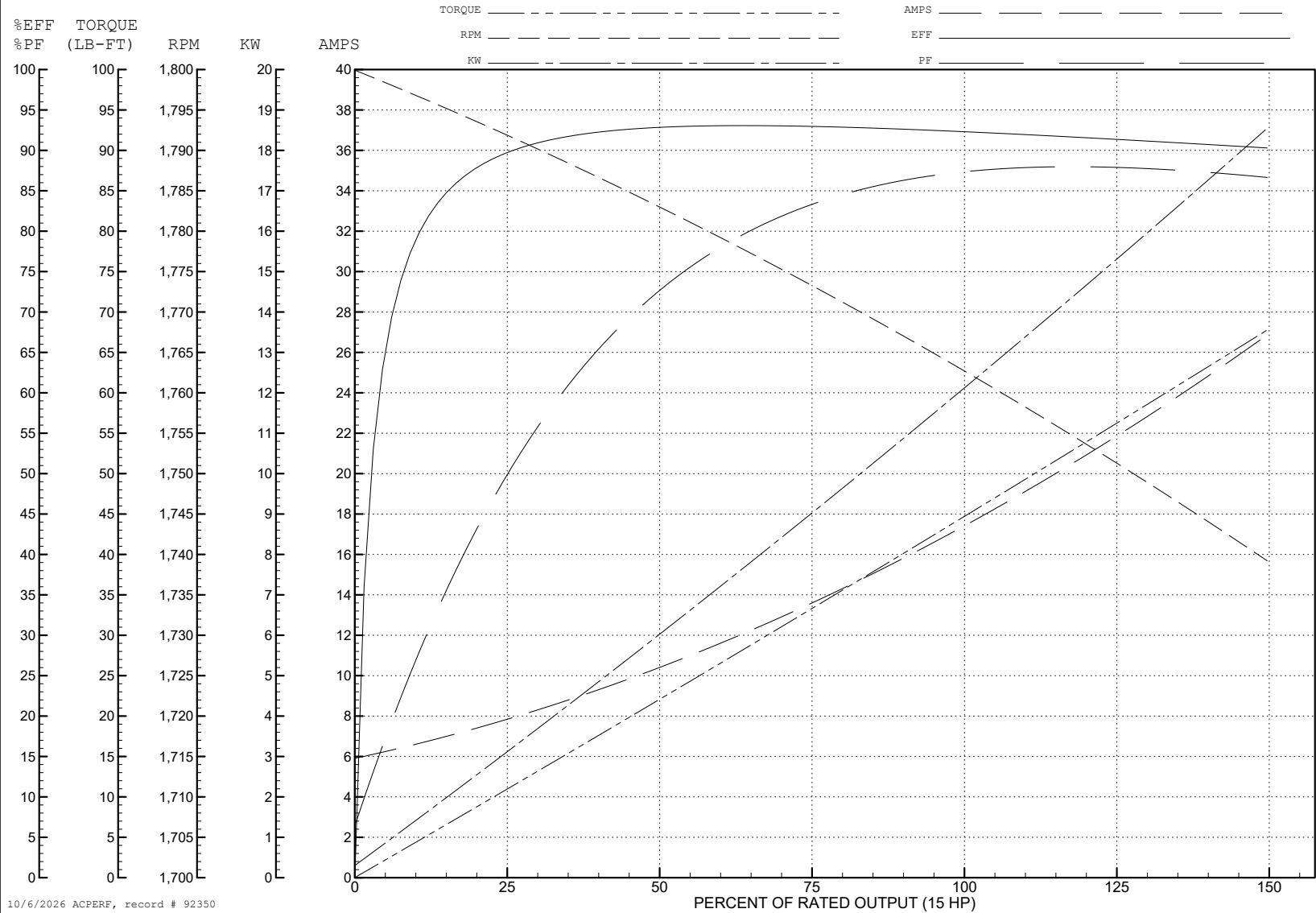
ABB Motors and Mechanical Inc.

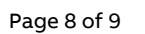
WINDING # 09WGZ997

Typical performance - not guaranteed values.

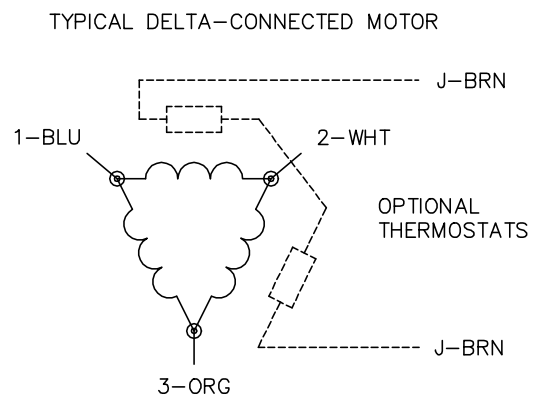
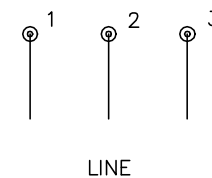
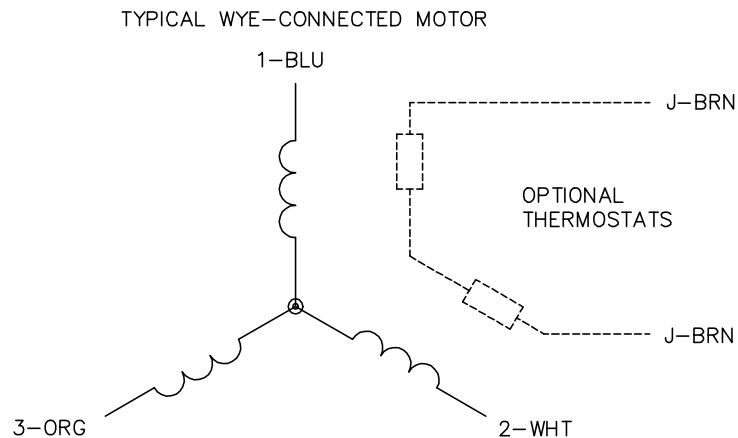
15 HP 3 PH 60 HZ 1760 RPM 460 V 0944M

TORQUES (LB-FT): PO=163 PU=53.3 LR=73.2 LRA=116





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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