

ABB BALDOR RELIANCE III

Customer information packet

CXM251522T

15//10HP, 3520//2930RPM, 3PH, 60//50HZ, 254T

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	254TC
Frame Material	Iron
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 50 HZ 15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ 230.0 V @ 60 HZ 190.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV UL
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	7.000 A @ 208.0 V 34.400 A @ 230.0 V 29.000 A @ 190.0 V 17.200 A @ 460.0 V 14.500 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	09WGZ864
Layout	09LYE689
Eff. date	11-14-2023
CD Diagram	CD0180
Poles	02
Leads	9#12
Proprietary	False
Created date	02-16-2021

Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	14.5 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0934M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	26.00 IN
Power Factor	88
Product Family	Hazardous Location Motor
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3530 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor

Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP0887XPSLEV												
NO.							CC	010A				
S/N							TEMP CODE		T3C			
SPEC.	09-0000-2928						INV.TYPE		PWM			
CAT.NO.	CXM251522T						C HP FR		60	C HP TO		90
HP	15//10						CT HZ FROM		6	CT HZ TO		60
VOLTS	230/460//190/380						VT HZ FROM		6	VT HZ TO		60
AMPS	34.4/17.2//29/14.5				MAG CUR		11.8/5.9					
RPM	3530//2940				MX RPM		5400					
HZ	60//50	PH	3	CL	F	NOM.EFF.		91				
SER.F.	1.00	DES	A	SL HZ		1.2	WK2	0.87				
FRAME	254TC	RATING		40C AMB-CONT								
	NEMA MG-1 PART 5, IP54											
	1.15 SF ON SINE WAVE											

AC Induction Motor Performance Data

Record # 38686

Typical performance - not guaranteed values

Winding: 09WGZ864-R001			Type: 0934M		Enclosure: XPFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		15//10		Full Load Torque		22.2 LB-FT
Volts		230/460//190/380		Start Configuration		direct on line
Full Load Amps		34.4/17.2//29/14.5		Breakdown Torque		102 LB-FT
R.P.M.		3530//2940		Pull-up Torque		32.9 LB-FT
Hz	60//50	Phase	3	Locked-rotor Torque		40.8 LB-FT
NEMA Design Code		A	KVA Code	Starting Current		128 A
Service Factor (S.F.)		1.15		No-load Current		5.9 A
NEMA Nom. Eff.		91	Power Factor	Line-line Res. @ 25°C		0.591 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		56°C
S.F. Amps				Temp. Rise @ S.F. Load		70°C
				Locked-rotor Power Factor		29.4
				Rotor inertia		0.868 LB-FT2

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	57	78	86	89	90	90	90
Efficiency	86.2	90.8	91.7	91.6	91.3	90.5	91.5
Speed	3583	3567	3550	3533	3514	3493	3522
Line amperes	7.2	10	13.4	17.2	21.2	25.6	19.6

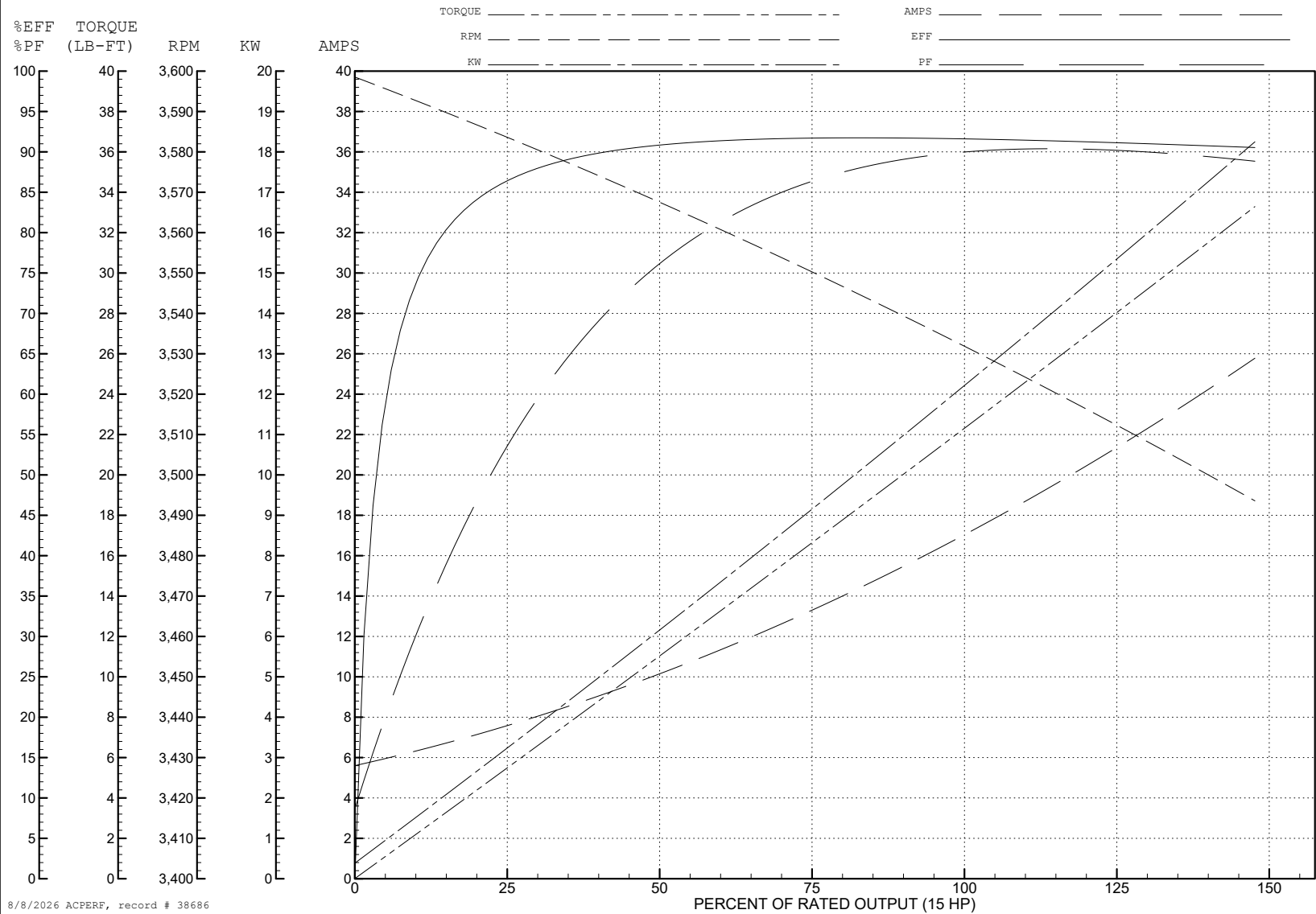
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WINDING # 09WGZ864

Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 3533 RPM 460 V 0934M

TORQUES (LB-FT): PO=102 PU=32.9 LR=40.8 LRA=128



AC Induction Motor Performance Data

Record # 38687

Typical performance - not guaranteed values

Winding: 09WGZ864-R001			Type: 0934M		Enclosure: XPFC	
Nameplate Data				380 V, 50 Hz: High Voltage Connection		
Rated Output (HP)		15//10		Full Load Torque		17.7 LB-FT
Volts		230/460//190/380		Start Configuration		direct on line
Full Load Amps		34.4/17.2//29/14.5		Breakdown Torque		97.6 LB-FT
R.P.M.		3530//2940		Pull-up Torque		34.9 LB-FT
Hz		60//50 Phase 3		Locked-rotor Torque		43.2 LB-FT
NEMA Design Code		A KVA Code H		Starting Current		125 A
Service Factor (S.F.)		1.15		No-load Current		5.79 A
NEMA Nom. Eff.		91 Power Factor 88		Line-line Res. @ 25°C		0.591 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		42°C
S.F. Amps				Temp. Rise @ S.F. Load		51°C
				Locked-rotor Power Factor		33.3
				Rotor inertia		0.868 LB-FT2

Load Characteristics 380 V, 50 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	51	73	82	87	89	89	88
Efficiency	84.8	90.1	91.3	91.2	91	90.6	91.1
Speed	2986	2973	2959	2946	2931	2914	2937
Line amperes	6.62	8.7	11.3	14.2	17.3	20.7	16.1

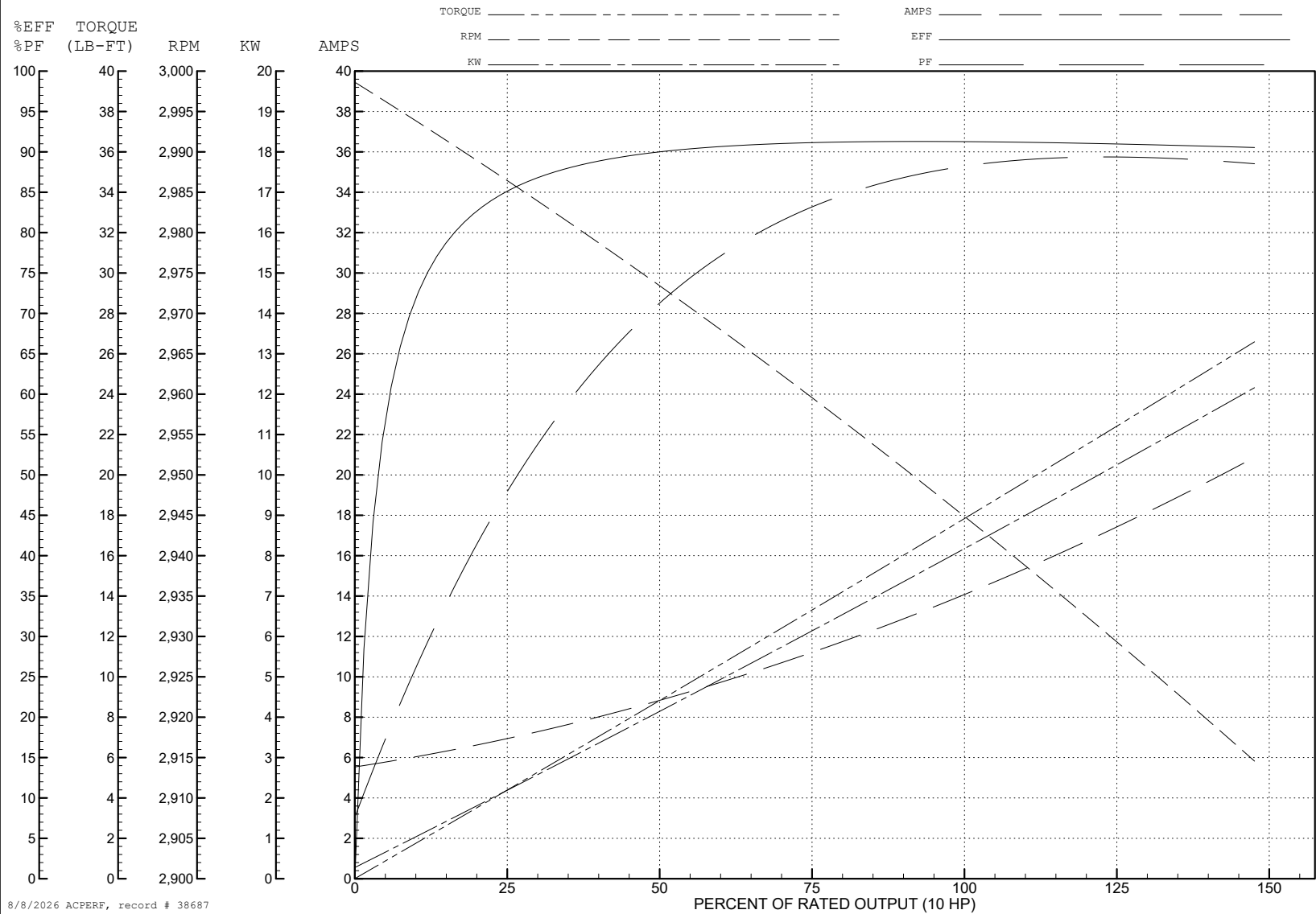
ABB Motors and Mechanical Inc.

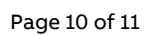
WINDING # 09WGZ864

Typical performance - not guaranteed values.

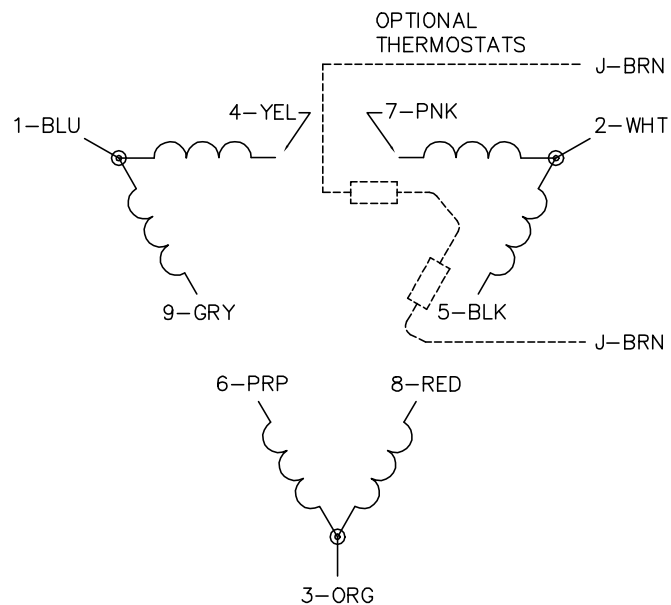
10 HP 3 PH 50 HZ 2946 RPM 380 V 0934M

TORQUES (LB-FT): PO=97.6 PU=34.9 LR=43.2 LRA=125

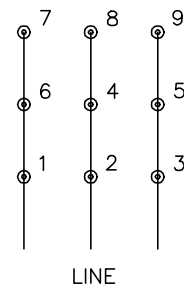




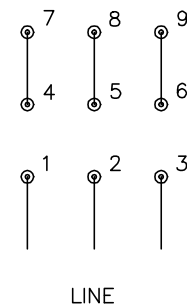
CD0180



LOW VOLTAGE
(2D)



HIGH VOLTAGE
(1D)



NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: ADD CLASS CONN00000007

REV. LTR: D

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\148

REVISED: 10: 25: 29 02/19/2019

BY: ENBRIRO

MTL: -



BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1

CD0180