

ABB BALDOR RELIANCE III

Customer information packet

CDRX21144T-5

10HP, 1765RPM, 3PH, 60HZ, 215TC, XPFC, F1

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	215TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 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	10.100 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	10.1 a
Insulation Class	F
Inverter Code	Inverter Duty

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	07WGY787
Layout	07LYJ232
Eff. date	02-14-2024
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	06-21-2019

IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0750M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.78 IN
Power Factor	80
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1765 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

NP1401XPSLEV											
NO.						CC	010A				
S/N						TEMP CODE			T3C		
SPEC.	07-0000-0156					INV.TYPE		PWM			
CAT.NO.	CDRX21144T-5					C HP FR	60	C HP TO	90		
HP	10					CT HZ FROM	6	CT HZ TO	60		
VOLTS	575					VT HZ FROM	6	VT HZ TO	60		
AMPS	10.1				MAG CUR	4.6					
RPM	1765				MX RPM	2700					
HZ	60	PH	3	CL	F	NOM.EFF.	92.4				
SER.F.	1.00	DES	A	SL HZ	1.2	WK2	1.18				
FRAME	215TC	RATING		40C AMB-CONT							
	55C AMB @ 1.0 SF										
	1.15 SF SINEWAVE				NEMA MG-1 PT 5,IP55						

AC Induction Motor Performance Data

Record # 76615

Typical performance - not guaranteed values

Winding: 07WGY787-R002			Type: 0750M		Enclosure: XPFC			
Nameplate Data			575 V, 60 Hz: Single Voltage Motor					
Rated Output (HP)		10	Full Load Torque		29.7 LB-FT			
Volts		575	Start Configuration		direct on line			
Full Load Amps		10.1	Breakdown Torque		95.8 LB-FT			
R.P.M.		1765	Pull-up Torque		57.3 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		63.5 LB-FT		
NEMA Design Code		A	KVA Code	J	Starting Current		78 A	
Service Factor (S.F.)		1	No-load Current		4.63 A			
NEMA Nom. Eff.		92.4	Power Factor		80	Line-line Res. @ 25°C		1.35 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		59°C		
				Locked-rotor Power Factor		35.4		
				Rotor inertia		1.23 LB-FT2		

Load Characteristics 575 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	40	62	75	80	83	85
Efficiency	90.5	93.6	92.8	92.3	91.5	90.4
Speed	1790	1782	1772	1764	1754	1744
Line amperes	5.16	6.41	8.1	10.1	12.3	14.7

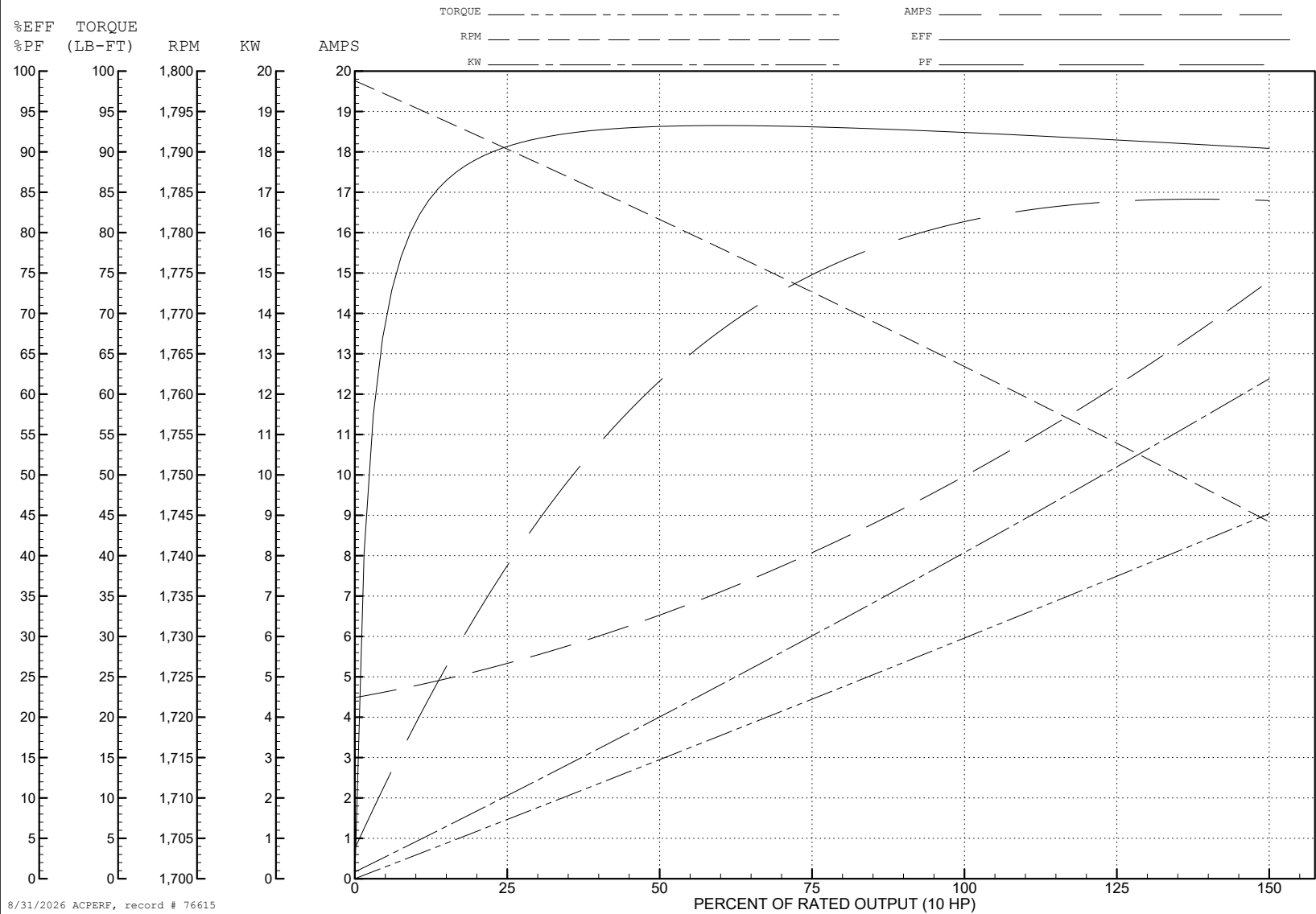
ABB Motors and Mechanical Inc.

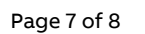
WINDING # 07WGY787

Typical performance - not guaranteed values.

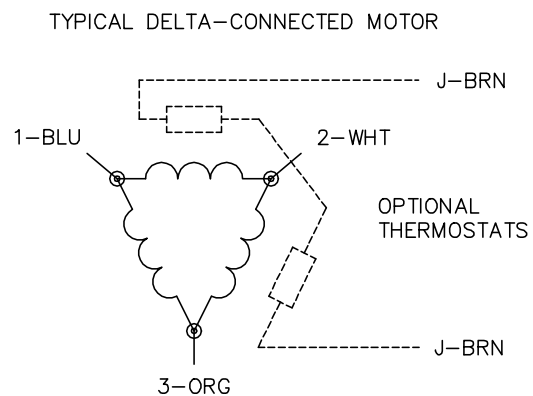
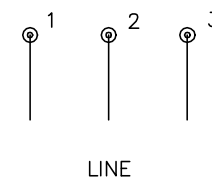
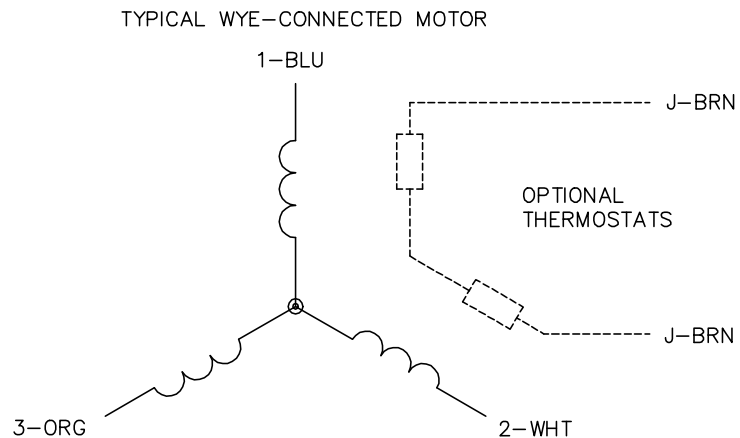
10 HP 3 PH 60 HZ 1765 RPM 575 V 0750M

TORQUES (LB-FT) : PO=95.8 PU=57.3 LR=63.5 LRA=78





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

SH 1 of 1