

ABB BALDOR RELIANCE III

Customer information packet

CPX21126T

10HP, 3490//2900RPM, 3PH, 60HZ, 215T, XPFC, F1

Class - CLI GP C,D; CLII GP E,F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	215T
Frame Material	Iron
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP C,D; CLII GP E,F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 60 HZ 7.500 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 190.0 V @ 50 HZ 460.0 V @ 60 HZ 380.0 V @ 50 HZ
Agency Approvals	UL CSA EEV
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	22.400 A @ 230.0 V 20.800 A @ 190.0 V 11.200 A @ 460.0 V 10.400 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	07WGY361
Layout	07LY-000-018
Eff. date	04-13-2021
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	04-30-2019

Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	10.4 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP55
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0730M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	20.02 IN
Power Factor	87
Product Family	Super-E Chemical Processing
Pulley Face Code	Standard
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	3490 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

NP2033XPSLEV												
NO.							CC	010A				
S/N							TEMP CODE	T3C				
SPEC.	07-0000-0122						INV.TYPE	PWM				
CAT.NO.	CPX21126T						C HP FR	60	C HP TO	90		
HP	10//7.5						CT HZ FROM	6	CT HZ TO	60		
VOLTS	230/460//190/380						VT HZ FROM	6	VT HZ TO	60		
AMPS	22.4/11.2//20.8/10.4						MAG CUR	6.6/3.3				
RPM	3490//2900						MX RPM	5400				
HZ	60//50	PH	3	CL	F	NOM.EFF.	90.2					
SER.F.	1.00	DES	B	SL HZ	1.8	WK2	0.273					
FRAME	215T	RATING		40C AMB-CONT								
BLANK	55C AMB AT 1.00 SF SINEWAVE											
	NEMA MG-1 PART 5, IP55						1.15 SF SINEWAVE					

AC Induction Motor Performance Data

Record # 75763

Typical performance - not guaranteed values

Winding: 07WGY361-R002			Type: 0730M		Enclosure: TEFC			
Nameplate Data					460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		10		Full Load Torque		15 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		22.4/11.2//20.8/10.4		Breakdown Torque		50.8 LB-FT		
R.P.M.		3490//2900		Pull-up Torque		19.3 LB-FT		
Hz		60//60	Phase	3	Locked-rotor Torque		26.8 LB-FT	
NEMA Design Code		B		KVA Code	G	Starting Current		72.6 A
Service Factor (S.F.)		1		No-load Current		3.34 A		
NEMA Nom. Eff.		90.2	Power Factor		87	Line-line Res. @ 25°C		0.995 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		60°C
						Locked-rotor Power Factor		32.6
						Rotor inertia		0.273 LB-FT2

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	64	83	90	92	92	91
Efficiency	88.8	91.9	91.7	90.4	89.3	87.7
Speed	3575	3550	3524	3493	3458	3418
Line amperes	4.15	6.08	8.55	11.2	14.3	17.6

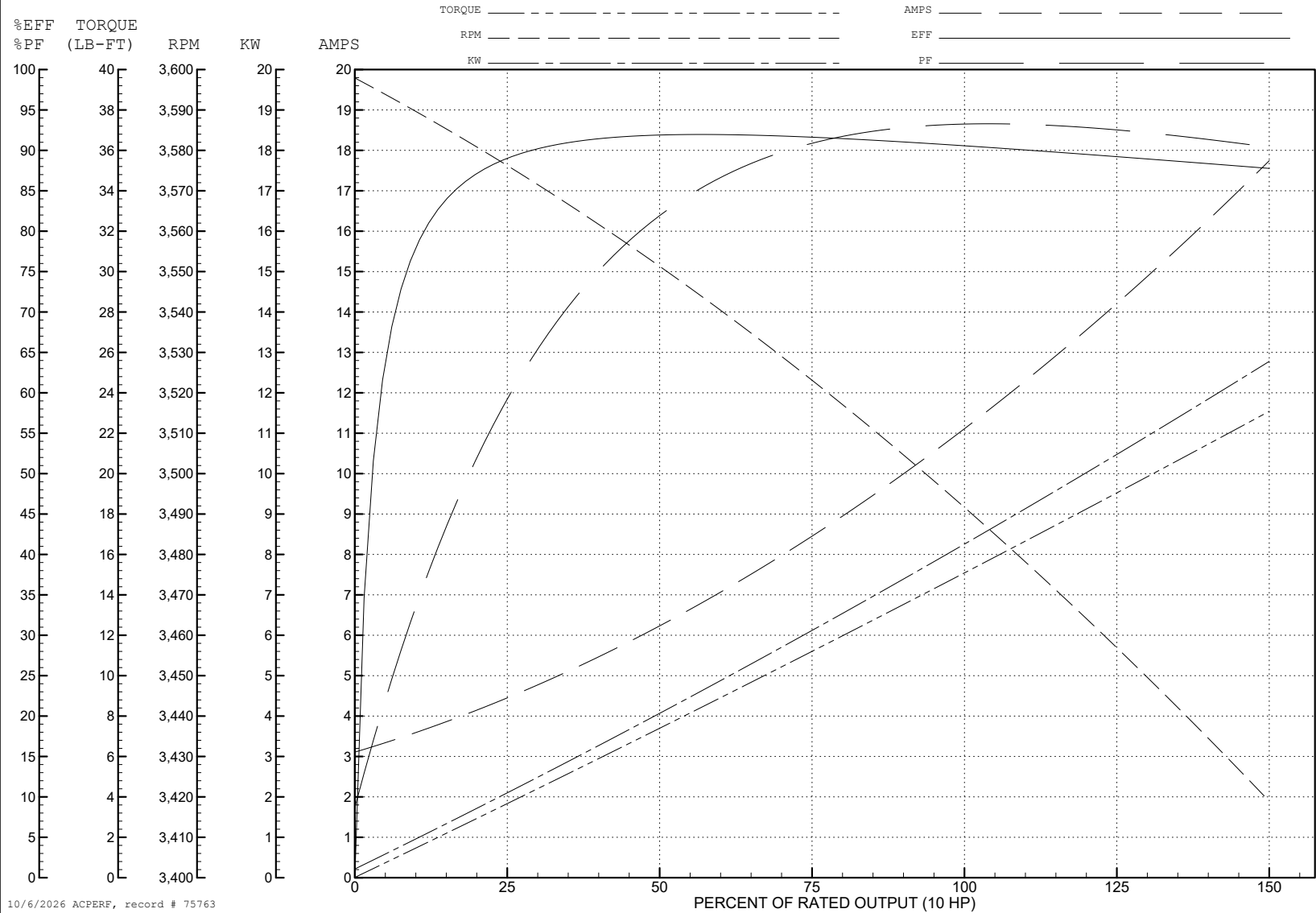
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WINDING # 07WGY361

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 3493 RPM 460 V 0730M

TORQUES (LB-FT) : PO=50.8 PU=19.3 LR=26.8 LRA=72.6



AC Induction Motor Performance Data

Record # 75764

Typical performance - not guaranteed values

Winding: 07WGY361-R002				Type: 0730M		Enclosure: TEFC	
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		10//7.5		Full Load Torque		13.54 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		22.4/11.2//20.8/10.4		Breakdown Torque		48.46 LB-FT	
R.P.M.		3490//2900		Pull-up Torque		20.4 LB-FT	
Hz		60//60		Phase		3	
NEMA Design Code		B		KVA Code		G	
Service Factor (S.F.)		1		No-load Current		3.25 A	
NEMA Nom. Eff.		90.2		Power Factor		87	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		54°C	
				Locked-rotor Power Factor		31.7	
				Rotor inertia		0.273 LB-FT2	

Load Characteristics 380 V, 50 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	63	82	89	92	92	91
Efficiency	85	89.6	89.9	88.9	87.9	86.3
Speed	2976	2954	2930	2902	2871	2836
Line amperes	3.99	5.73	7.96	10.38	13.19	16.17

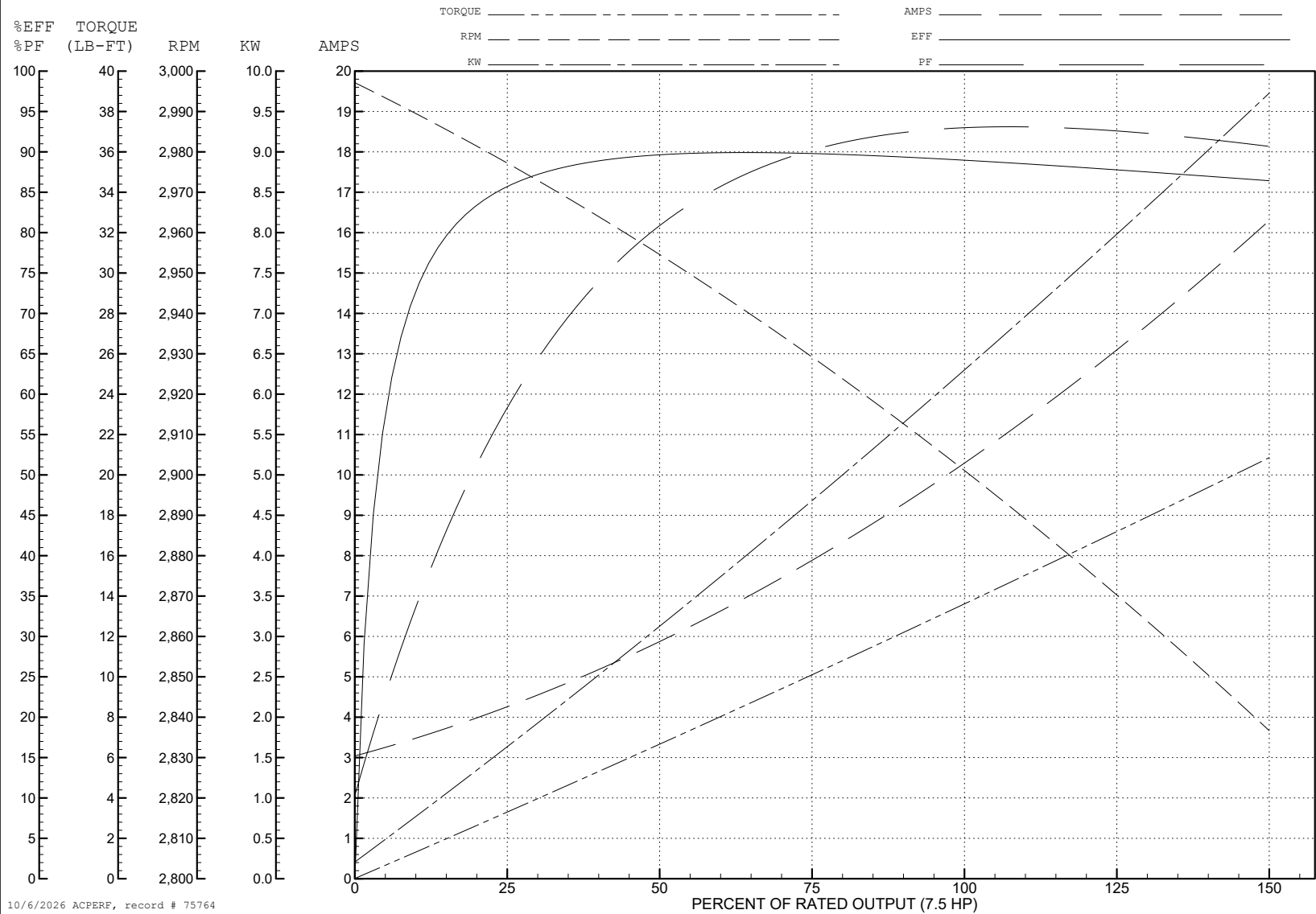
ABB Motors and Mechanical Inc.

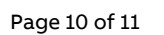
WINDING # 07WGY361

Typical performance - not guaranteed values.

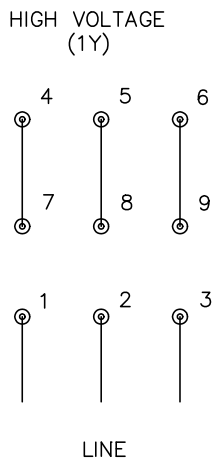
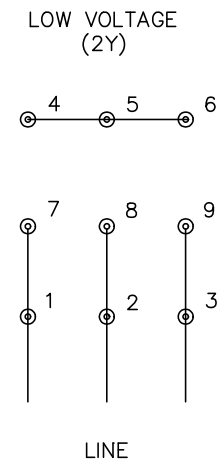
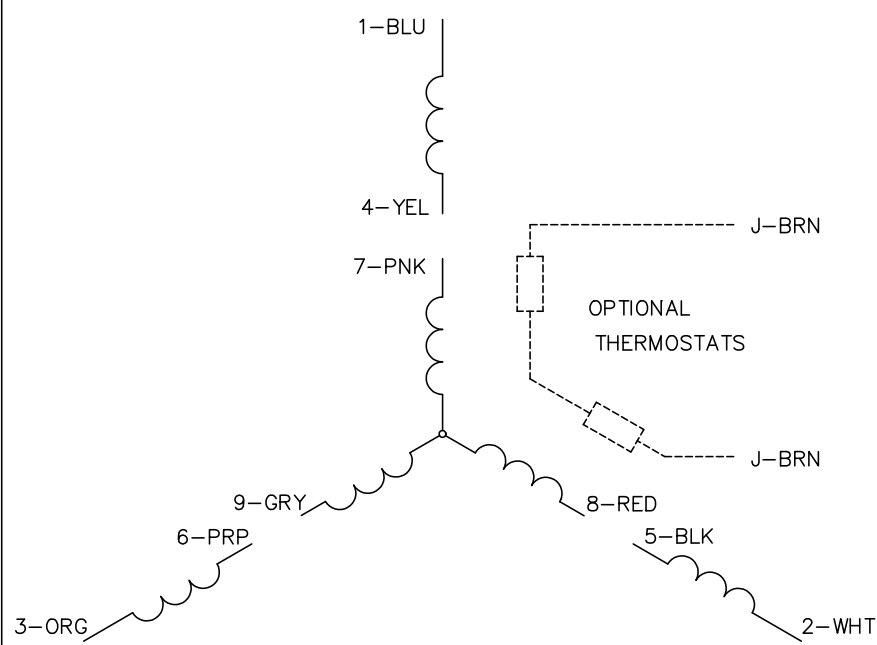
7.5 HP 3 PH 50 HZ 2902 RPM 380 V 0730M

TORQUES (LB-FT) : PO=48.46 PU=20.4 LR=28.32 LRA=70.44





CD0005



- 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: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005