

ABB BALDOR RELIANCE III

Customer information packet

CPX21366T

3HP, 1165//970RPM, 3PH, 60HZ, 213T, XPFC, F1

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

Division - Division I

Specifications

Enclosure	XPFC
Frame	213T
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	2.000 HP @ 50 HZ 3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	9.000 A @ 230.0 V 7.600 A @ 190.0 V 4.500 A @ 460.0 V 3.800 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.	07WGX970
Layout	07LY-000-018
Eff. date	04-13-2021
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	04-26-2019

Efficiency @ 100% Load	89.5 %
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	3.8 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP55
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0736M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	20.02 IN
Power Factor	71
Product Family	General Purpose
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	1165 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.	07-0000-0118						INV.TYPE		PWM			
CAT.NO.	CPX21366T						C HP FR	60	C HP TO	90		
HP	3//2						CT HZ FROM		6	CT HZ TO		60
VOLTS	230/460//190/380						VT HZ FROM		6	VT HZ TO		60
AMPS	9/4.5//7.6/3.8				MAG CUR							
RPM	1165//970				MX RPM		1800					
HZ	60//50	PH	3	CL	F	NOM.EFF.		89.5				
SER.F.	1.00	DES	B	SL HZ		1.7	WK2	0.895				
FRAME	213T	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 # 75626

Typical performance - not guaranteed values

Winding: 07WGX970-R008			Type: 0736M		Enclosure: XPFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		3	Full Load Torque		13.61 LB-FT	
Volts	230/460//190/380		Start Configuration		direct on line	
Full Load Amps	9/4.5//7.6/3.8		Breakdown Torque		51.71 LB-FT	
R.P.M.	1165//970		Pull-up Torque		25.77 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque	31.08 LB-FT	
NEMA Design Code	B	KVA Code	K	Starting Current	32.19 A	
Service Factor (S.F.)			1	No-load Current	2.26 A	
NEMA Nom. Eff.	89.5	Power Factor	71	Line-line Res. @ 25°C	3 Ω	
Rating - Duty	40C	AMB-CONT		Temp. Rise @ Rated Load	34°C	
S.F. Amps				Temp. Rise @ S.F. Load	41°C	
				Locked-rotor Power Factor	23.3	
				Rotor inertia	0.895 LB-FT2	

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	35	54	65	72	75	76
Efficiency	82.8	88.3	89.6	89.6	88.9	87.3
Speed	1192	1184	1176	1166	1156	1143
Line amperes	2.48	2.96	3.62	4.41	5.29	6.33

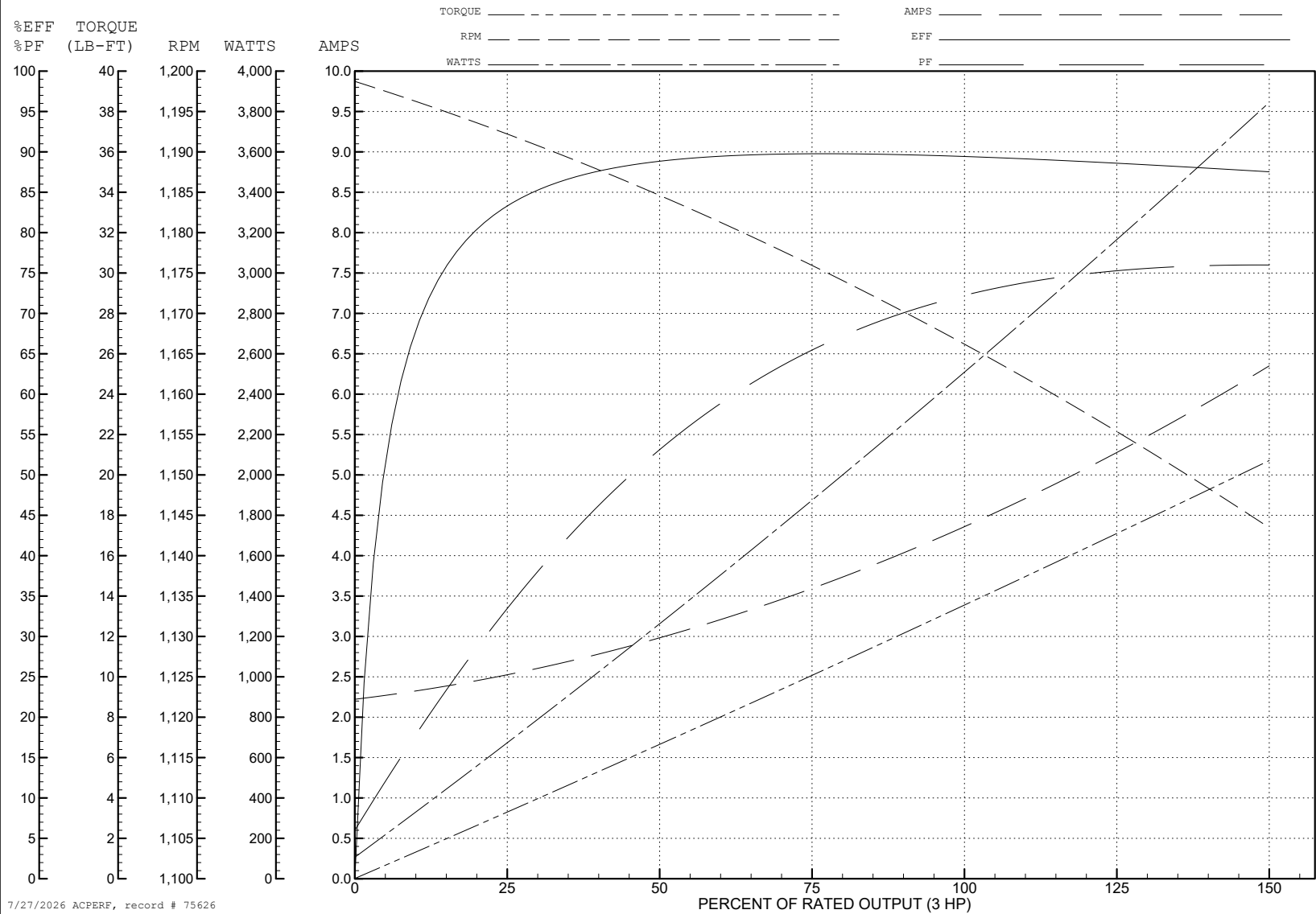
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WINDING # 07WGX970

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1166 RPM 460 V 0736M

TORQUES (LB-FT): PO=51.71 PU=25.77 LR=31.08 LRA=32.19



AC Induction Motor Performance Data

Record # 75628

Typical performance - not guaranteed values

Winding: 07WGX970-R008			Type: 0736M		Enclosure: XPFC		
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		3//2		Full Load Torque		10.88 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		9/4.5//7.6/3.8		Breakdown Torque		49.79 LB-FT	
R.P.M.		1165//970		Pull-up Torque		28.43 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		34.29 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		31.53 A
Service Factor (S.F.)		1		No-load Current		2.23 A	
NEMA Nom. Eff.		89.5	Power Factor	71	Line-line Res. @ 25°C		3 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		27°C	
S.F. Amps				Temp. Rise @ S.F. Load		32°C	
				Locked-rotor Power Factor		26.9	
				Rotor inertia		0.895 LB-FT2	

Load Characteristics 380 V, 50 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	30	48	60	67	72	75
Efficiency	79	86.1	88.2	88.5	88.3	86.9
Speed	993	987	980	972	965	955
Line amperes	2.4	2.75	3.24	3.82	4.46	5.22

ABB Motors and Mechanical Inc.

WINDING # 07WGX970

Typical performance - not guaranteed values.

2 HP 3 PH 50 HZ 972 RPM 380 V 0736M

TORQUES (LB-FT) : PO=49.79 PU=28.43 LR=34.29 LRA=31.53

