

ABB BALDOR RELIANCE III

Customer information packet

CPX141546T

1.5HP, 1755RPM, 3PH, 60HZ, 145T, 0526M, XPFC, F

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

Division - Division I

Specifications

Enclosure	XPFC
Frame	145T
Frame Material	Iron
Frequency	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	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ 230.0 V @ 60 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	4.500 A @ 230.0 V 4.400 A @ 208.0 V 2.250 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part Detail

Revision	A
Type	AC
Mech. spec.	05E6081
Base	
Status	PRD/A
Elec. spec.	05WGX901
Layout	05LYE6081
Eff. date	08-24-2023
CD Diagram	CD0005
Poles	04
Leads	9#18 Y
Proprietary	False
Created date	02-20-2023

Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	2.3 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X0526M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.66 IN
Power Factor	73
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1755 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.	05E6081X901G1						INV.TYPE	PWM				
CAT.NO.	CPX141546T						C HP FR	60	C HP TO	90		
HP	1.5						CT HZ FROM	6	CT HZ TO	60		
VOLTS	208-230/460						VT HZ FROM	6	VT HZ TO	60		
AMPS	4.4-4.5/2.25				MAG CUR		2.3-2.9/1.45					
RPM	1755				MX RPM		2700					
HZ	60	PH	3	CL	F	NOM.EFF.	86.5					
SER.F.	1.00	DES	B	SL HZ	1.5	WK2	0.188					
FRAME	145T	RATING		40C AMB-CONT								
BLANK	55C AT 1.00SF SINEWAVE											
	1.15 SF SINEWAVE				IP55							

AC Induction Motor Performance Data

Record # 75783

Typical performance - not guaranteed values

Winding: 05WGX163-R005		Type: 0526M	Enclosure: XPFC
Nameplate Data		380 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	1.5//1	Full Load Torque	3.63 LB-FT
Volts	230/460//190/380	Start Configuration	direct on line
Full Load Amps	4.6/2.3//4.2/2.1	Breakdown Torque	20.12 LB-FT
R.P.M.	1765//1470	Pull-up Torque	12.29 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	14.99 LB-FT
NEMA Design Code	B KVA Code	Starting Current	19.57 A
Service Factor (S.F.)	1	No-load Current	1.5 A
NEMA Nom. Eff.	86.5 Power Factor	Line-line Res. @ 25°C	8.63 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	28°C
S.F. Amps		Temp. Rise @ S.F. Load	32°C
		Locked-rotor Power Factor	55.8
		Rotor inertia	0.154 LB-FT ²

Load Characteristics 380 V, 50 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	28	44	57	66	72	77
Efficiency	69.5	80.1	83.6	85.3	85.4	85
Speed	1493	1486	1479	1471	1462	1454
Line amperes	1.55	1.66	1.85	2.05	2.33	2.62

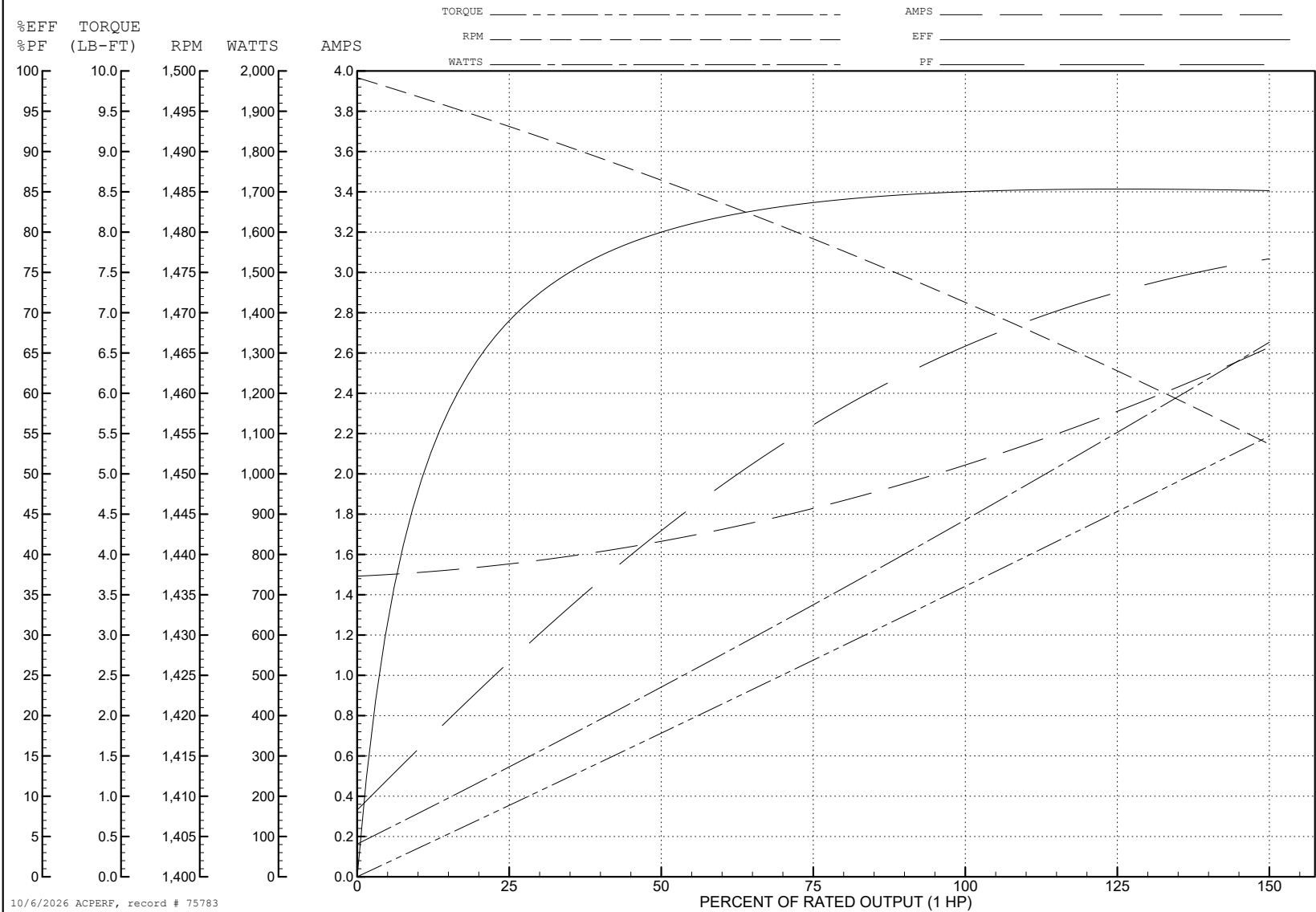
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WINDING # 05WGX163

Typical performance - not guaranteed values.

1 HP 3 PH 50 HZ 1471 RPM 380 V 0526M

TORQUES (LB-FT) : PO=20.12 PU=12.29 LR=14.99 LRA=19.57



AC Induction Motor Performance Data

Record # 75786

Typical performance - not guaranteed values

Winding: 05WGX163-R005				Type: 0526M		Enclosure: XPFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1.5//1		Full Load Torque		4.54 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		4.6/2.3//4.2/2.1		Breakdown Torque		21.7 LB-FT	
R.P.M.		1765//1470		Pull-up Torque		12.3 LB-FT	
Hz		60//50		Phase		3	
NEMA Design Code		B		KVA Code		M	
Service Factor (S.F.)		1		No-load Current		1.54 A	
NEMA Nom. Eff.		86.5		Power Factor		71	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps						Temp. Rise @ S.F. Load	
						Locked-rotor Power Factor	
						Rotor inertia	

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	31	49	62	71	77	80
Efficiency	74.4	83.1	85.8	86.9	86.5	86
Speed	1792	1783	1774	1764	1754	1743
Line amperes	1.61	1.77	2.03	2.32	2.69	3.09

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WINDING # 05WGX163

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1764 RPM 460 V 0526M

TORQUES (LB-FT): PO=21.7 PU=12.3 LR=15 LRA=20.7

