

ABB BALDOR RELIANCE III

Customer information packet

CCPX18546T

5HP, 1750//1450RPM, 3PH, 60HZ, 184TC, XPFC, F1

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

Division - Division I

Specifications

Enclosure	XPFC
Frame	184TC
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	3.000 HP @ 50 HZ 5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	6.600 A @ 460.0 V 5.200 A @ 380.0 V 13.200 A @ 230.0 V 10.400 A @ 190.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	06WGX182
Layout	06LYK422
Eff. date	05-02-2024
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	04-17-2019

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	5.2 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP55
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	0642M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.33 IN
Power Factor	79
Product Family	Super-E Chemical Processing
Pulley Face Code	C-Face
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1750 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.	06-0000-0102						INV.TYPE		PWM				
CAT.NO.	CCPX18546T						C HP FR	60	C HP TO	90			
HP	5//3						CT HZ FROM		6	CT HZ TO		60	
VOLTS	230/460//190/380						VT HZ FROM		6	VT HZ TO		60	
AMPS	13.2/6.6//10.4/5.2						MAG CUR		6/3				
RPM	1750//1450						MX RPM		2700				
HZ	60//50	PH	3	CL	F	NOM.EFF.		89.5					
SER.F.	1.00	DES	B	SL HZ		1.7	WK2	0.39					
FRAME	184TC		RATING		40C AMB-CONT								
BLANK	1.15 SF SINEWAVE												
	55C AMB @ 1.0 SF						NEMA MG-1 PT 5,IP55						

AC Induction Motor Performance Data

Record # 39057

Typical performance - not guaranteed values

Winding: 06WGX182-R030			Type: 0642M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		5//3		Full Load Torque		15 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		13.2/6//10.4/5.2		Breakdown Torque		53.9 LB-FT	
R.P.M.		1750//1450		Pull-up Torque		22.4 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		31.8 LB-FT	
NEMA Design Code		B	KVA Code	J	Starting Current		46.6 A
Service Factor (S.F.)		1.15		No-load Current		3.02 A	
NEMA Nom. Eff.		89.5	Power Factor	79	Line-line Res. @ 25°C		2.63 Ω
Rating - Duty		55C AMB-CONT		Temp. Rise @ Rated Load		53°C	
S.F. Amps				Temp. Rise @ S.F. Load		66°C	
				Locked-rotor Power Factor		40.5	
				Rotor inertia		0.391 LB-FT2	

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	41	63	75	81	84	85	81
Efficiency	85.1	89.7	90.3	89.8	88.4	86.8	88.7
Speed	1789	1777	1765	1752	1737	1721	1739
Line amperes	3.35	4.14	5.21	6.45	7.91	9.47	7.52

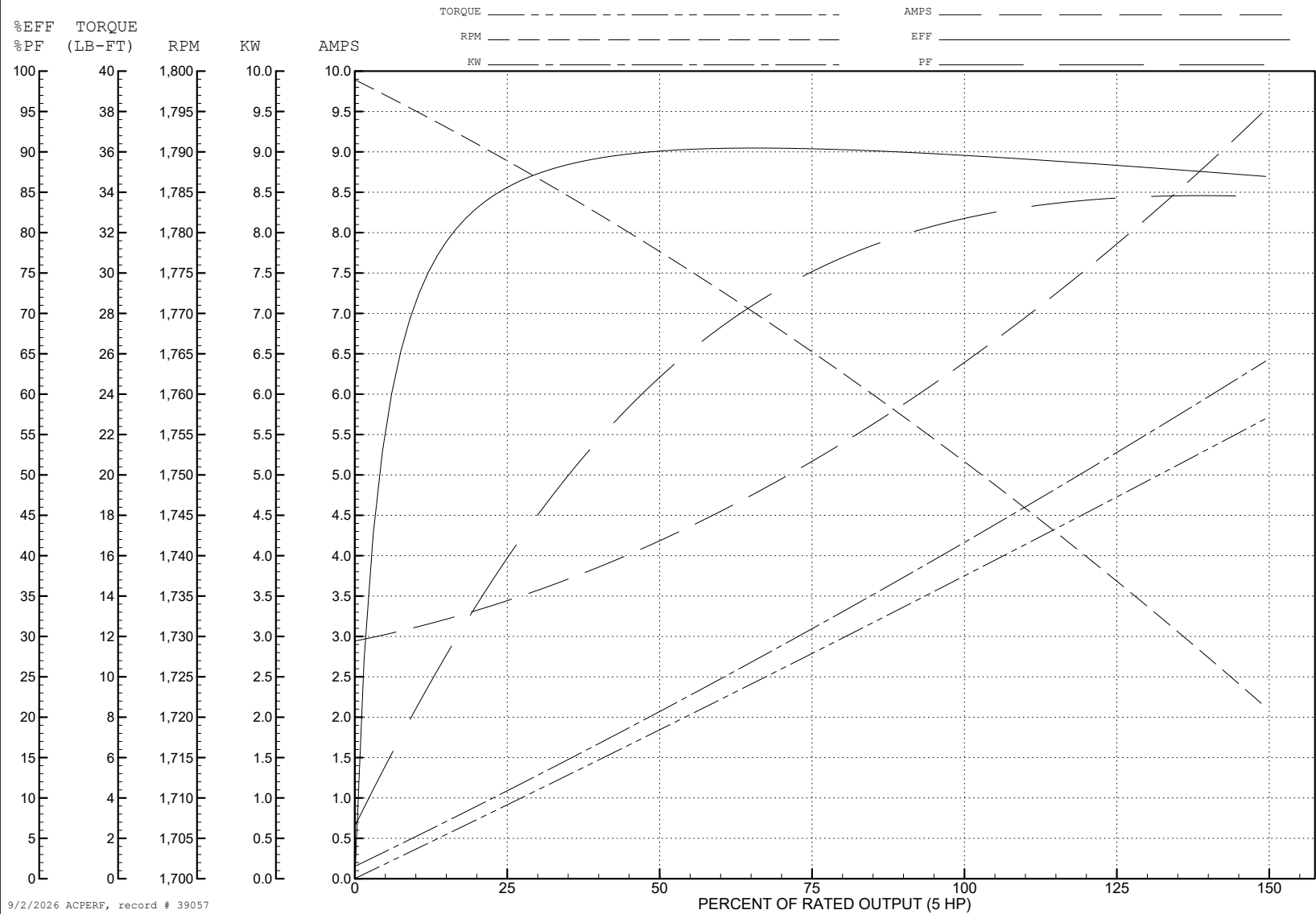
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WINDING # 06WGX182

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1752 RPM 460 V 0642M

TORQUES (LB-FT): PO=53.9 PU=22.4 LR=31.8 LRA=46.6



AC Induction Motor Performance Data

Record # 39058

Typical performance - not guaranteed values

Winding: 06WGX182-R030			Type: 0642M		Enclosure: TEFC	
Nameplate Data				380 V, 50 Hz: High Voltage Connection		
Rated Output (HP)		5//3		Full Load Torque		10.77 LB-FT
Volts		230/460//190/380		Start Configuration		direct on line
Full Load Amps		13.2/6//10.4/5.2		Breakdown Torque		50.97 LB-FT
R.P.M.		1750//1450		Pull-up Torque		22.82 LB-FT
Hz		60//50		Phase		3
NEMA Design Code		B		KVA Code		J
Service Factor (S.F.)		1.15		No-load Current		2.97 A
NEMA Nom. Eff.		89.5		Power Factor		79
Rating - Duty		55C		AMB-CONT		
S.F. Amps				Temp. Rise @ Rated Load		36°C
				Temp. Rise @ S.F. Load		43°C
				Locked-rotor Power Factor		45
				Rotor inertia		0.391 LB-FT2

Load Characteristics 380 V, 50 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	54	67	75	80	83	76
Efficiency	80.7	87.3	89	89	88.2	87.2	88.3
Speed	1492	1483	1474	1464	1454	1443	1454
Line amperes	3.16	3.63	4.29	5.08	6.03	7.05	5.82

ABB Motors and Mechanical Inc.

WINDING # 06WGX182

Typical performance - not guaranteed values.

3 HP 3 PH 50 HZ 1464 RPM 380 V 0642M

TORQUES (LB-FT) : PO=50.97 PU=22.82 LR=32.39 LRA=44.96

