

ABB BALDOR RELIANCE III

Customer information packet

IDXM7570T-C

10HP, 1760RPM, 3PH, 60HZ, 215T, 0748M, XPFC, F1

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

Division - Division I

Specifications

Enclosure	XPFC
Frame	215T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D; CLII GP F,G
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	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV UR
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	15
Current @ Voltage	12.200 A @ 460.0 V 24.400 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	H
Type	AC
Mech. spec.	07J063
Base	
Status	INA/A
Elec. spec.	07WGY179
Layout	07LYJ063
Eff. date	03-08-2021
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	11-03-2016

Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	12.2 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	2700 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X0748M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.91 IN
Power Factor	83
Product Family	General Purpose
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	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1760 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

NP0681XPSLEV											
NO.						CC	010A				
S/N						TEMP CODE	T3C				
SPEC.	07J063Y179G1					INV.TYPE	PWM				
CAT.NO.						C HP FR	60	C HP TO	90		
HP	10					CT HZ FROM	15		CT HZ TO	60	
VOLTS	230/460					VT HZ FROM	6		VT HZ TO	60	
AMPS	24.4/12.2				MAG CUR	8.8/4.4					
RPM	1760				MX RPM	2700					
HZ	60	PH	3	CL	F	NOM.EFF.	91.7				
SER.F.	1.00	DES	B	SL HZ	1	WK2	1.18				
FRAME	215T	RATING		40C AMB-CONT							
	1.15 SF SINE WAVE										

AC Induction Motor Performance Data

Record # 60174

Typical performance - not guaranteed values

Winding: 07WGY179-R033			Type: 0748M		Enclosure: XPFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		10	Full Load Torque		29.8 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		24.4/12.2	Breakdown Torque		80.9 LB-FT	
R.P.M.		1760	Pull-up Torque		40.2 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		52.6 LB-FT
NEMA Design Code		B	KVA Code		H	
Service Factor (S.F.)		1	Starting Current		81 A	
NEMA Nom. Eff.		91.7	Power Factor		83	
Rating - Duty		40C	AMB-CONT			
			Line-line Res. @ 25°C		1.08 Ω	
			Temp. Rise @ Rated Load		64°C	
			Locked-rotor Power Factor		35.1	
			Rotor inertia		1.18 LB-FT2	

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	50	71	80	83	85	85
Efficiency	90.3	92.4	92.9	92.3	90.9	89.1
Speed	1791	1782	1774	1763	1751	1737
Line amperes	5.24	7.1	9.42	12.2	15.2	18.7

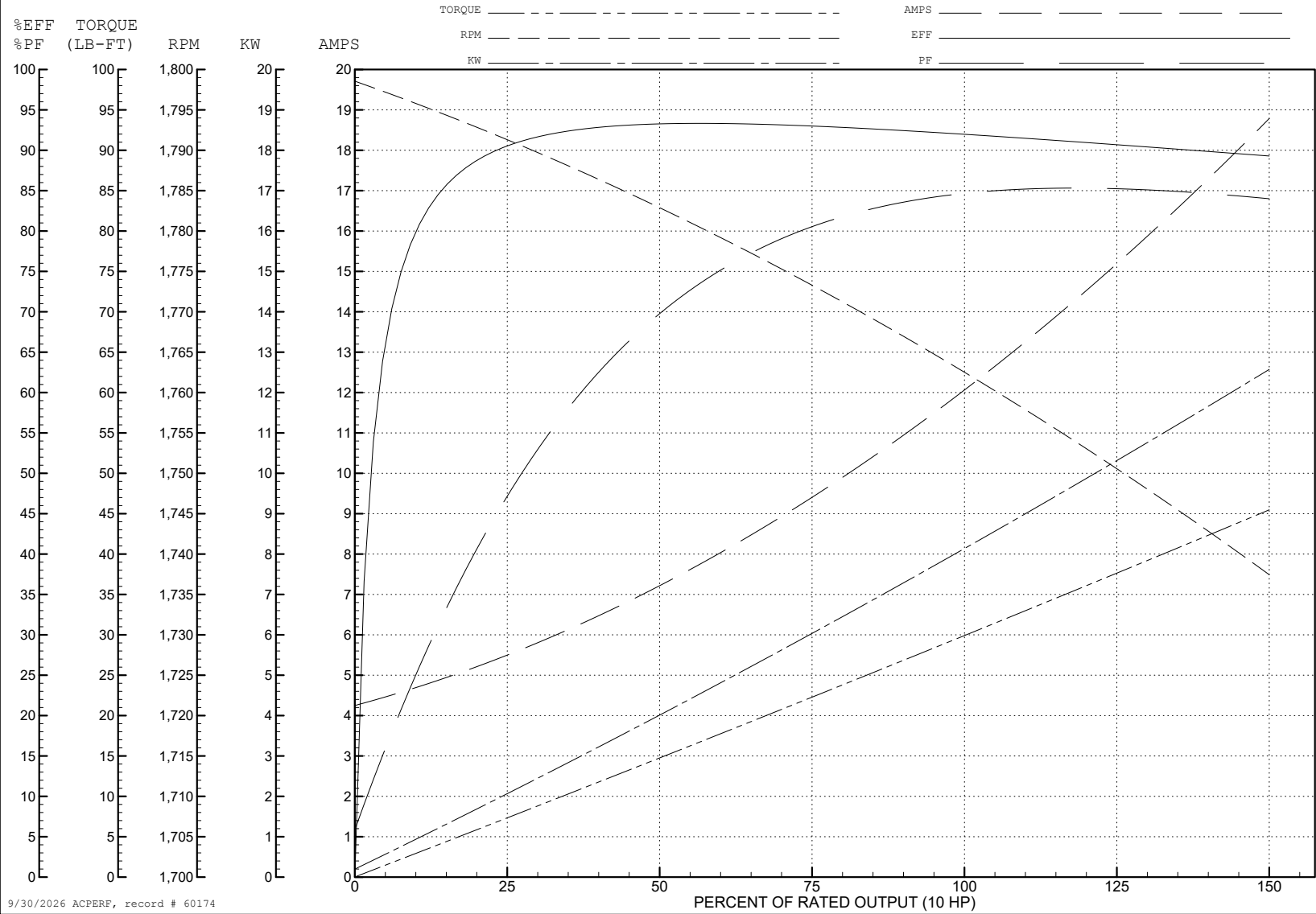
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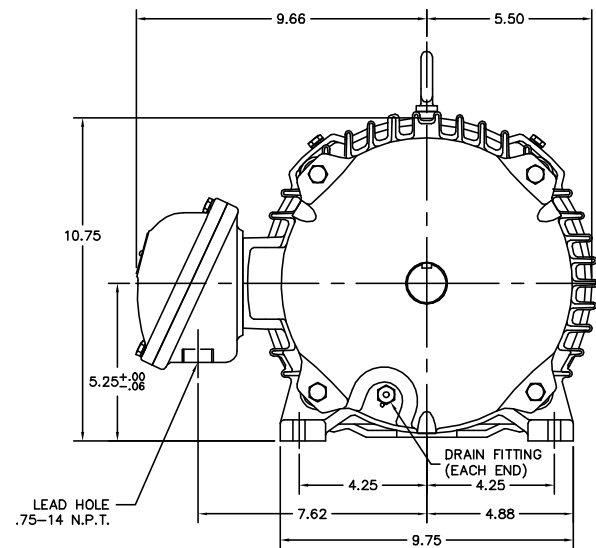
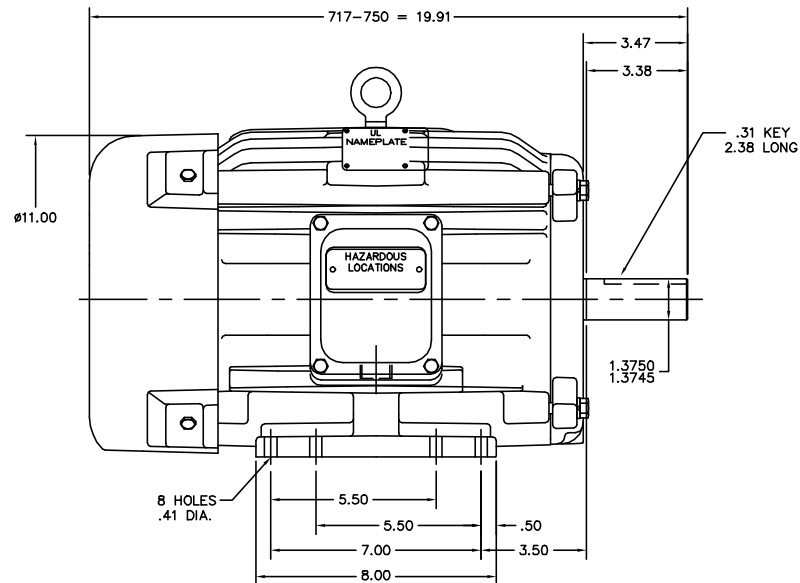
WINDING # 07WGY179

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1760 RPM 460 V 0748M

TORQUES (LB-FT): PO=80.9 PU=40.2 LR=52.6 LRA=81





REV. DESC: CHG HW4501A02 TO HW4506A02 & HW3022E05			
REV. LTR: A	BY: JF	REVISED: 17:03:21 10/30/2003	TDR: 315895
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HORZ 213-5T XPFC X307M CL I-GP C&D-CL II-GP F & G W/ DRAINS

07LYJ063

