

ABB BALDOR RELIANCE III

Customer information packet

CPX25766T

7.5HP, 1180//980RPM, 3PH, 60HZ, 254TY, XPFC, F

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

Division - Division I

Specifications

Enclosure	XPFC
Frame	254TY
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	5.000 HP @ 50 HZ 7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ 230.0 V @ 60 HZ 460.0 V @ 60 HZ 190.0 V @ 50 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	9.600 A @ 380.0 V 23.000 A @ 208.0 V 22.000 A @ 230.0 V 19.200 A @ 190.0 V 11.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	K
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	09WGT118
Layout	09LYM363
Eff. date	05-02-2024
CD Diagram	CD0005
Poles	06
Leads	9#12
Proprietary	False
Created date	04-25-2019

Efficiency @ 100% Load	91.0 %
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	9.6 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	1800 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0954M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	25.75 IN
Power Factor	70
Product Family	Chemical Process Features
Pulley Face Code	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1180 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.	09-0000-1357						INV.TYPE	PWM				
CAT.NO.	CPX25766T						C HP FR	60	C HP TO	90		
HP	7.5//5						CT HZ FROM	6	CT HZ TO	60		
VOLTS	230/460//190/380						VT HZ FROM	6	VT HZ TO	60		
AMPS	22/11//19.2/9.6						MAG CUR					
RPM	1180//980						MX RPM	1800				
HZ	60//50	PH	3	CL	F	NOM.EFF.	91					
SER.F.	1.00	DES	A	SL HZ	1	WK2	4.34					
FRAME	254TY	RATING	40C AMB-CONT									
BLANK	55C AMB @ 1.00 SF, 60C RISE											
	1.15SF ON SINEWAVE						NEMA MG-1 PT.5,IP55					

AC Induction Motor Performance Data

Record # 57230

Typical performance - not guaranteed values

Winding: 09WGT118-R011			Type: 0954M		Enclosure: XPFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		7.5	Full Load Torque		33.3 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		22/11	Breakdown Torque		106 LB-FT	
R.P.M.		1180	Pull-up Torque		41.4 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		62.8 LB-FT
NEMA Design Code		A	KVA Code	J	Starting Current	
Service Factor (S.F.)		1	No-load Current		5.97 A	
NEMA Nom. Eff.		91	Power Factor	70	Line-line Res. @ 25°C	
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load	
					Locked-rotor Power Factor	
					Rotor inertia	

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	34	53	64	70	74	75
Efficiency	81.3	88	89.6	89.7	89.4	88.3
Speed	1196	1192	1187	1183	1177	1171
Line amperes	6.46	7.57	9.19	11.2	13.3	15.9

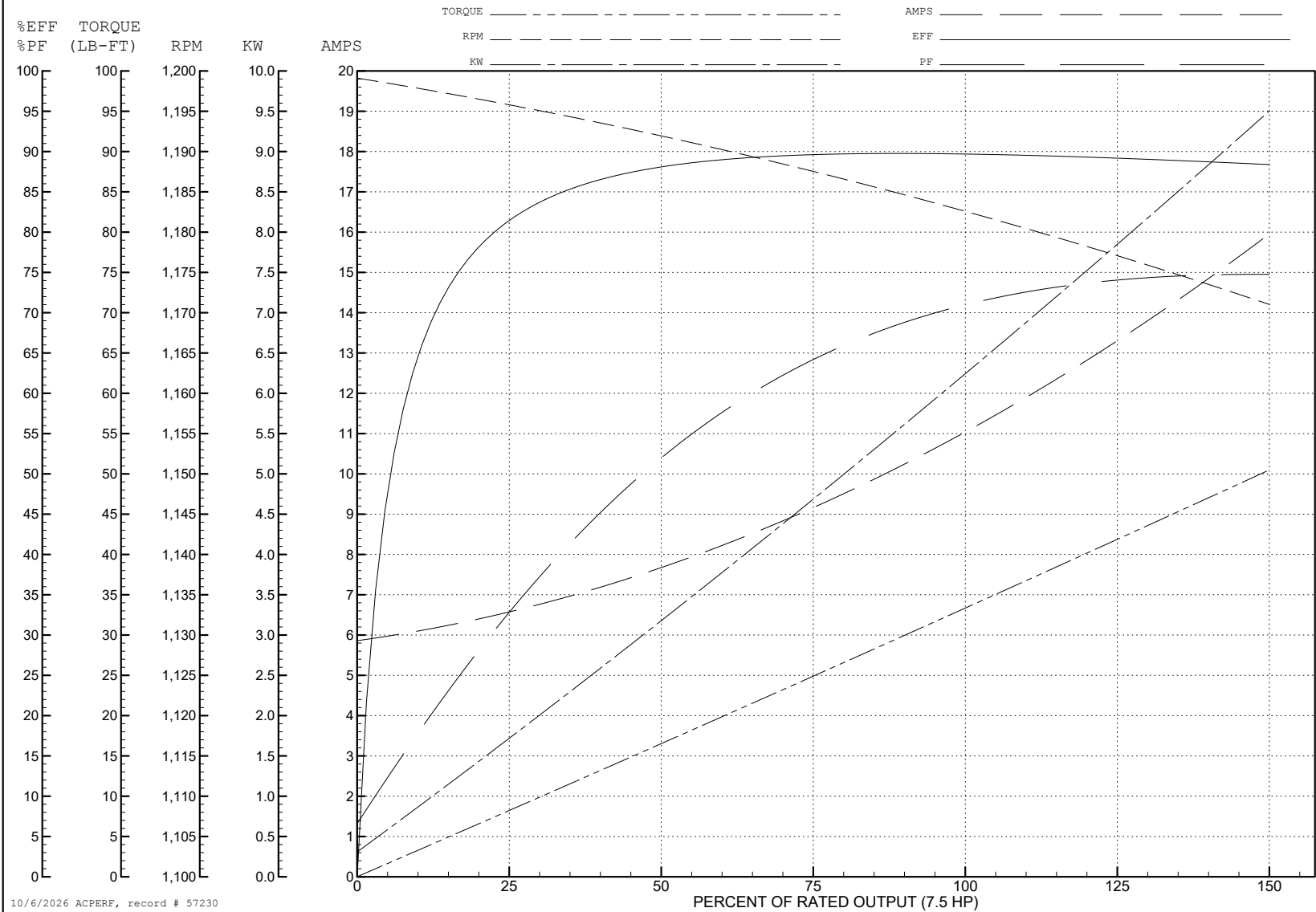
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WINDING # 09WGT118

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1180 RPM 460 V 0954M

TORQUES (LB-FT): PO=106 PU=41.4 LR=62.8 LRA=75.7



AC Induction Motor Performance Data

Record # 75705

Typical performance - not guaranteed values

Winding: 09WGT118-R007			Type: 0954M		Enclosure: XPFC		
Nameplate Data			380 V, 50 Hz: High Voltage Connection				
Rated Output (HP)		7.5//5	Full Load Torque		26.49 LB-FT		
Volts		230/460//190/380	Start Configuration		direct on line		
Full Load Amps		22/11//19.2/9.6	Breakdown Torque		109 LB-FT		
R.P.M.		1180//980	Pull-up Torque		43.5 LB-FT		
Hz		60//50	Phase		3	Locked-rotor Torque	60.46 LB-FT
NEMA Design Code		A	KVA Code		J	Starting Current	73.36 A
Service Factor (S.F.)		1	No-load Current		6 A		
NEMA Nom. Eff.		91	Power Factor		70	Line-line Res. @ 25°C	0.895 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		28°C	
S.F. Amps				Temp. Rise @ S.F. Load		34°C	
				Locked-rotor Power Factor		28.9	
				Rotor inertia		4.34 LB-FT2	

Load Characteristics 380 V, 50 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	28	46	58	65	71	74
Efficiency	81.2	87.9	90.1	90.6	90.3	89.6
Speed	997	994	990	987	983	979
Line amperes	6.29	7.06	8.13	9.52	11.08	12.87

ABB Motors and Mechanical Inc.

WINDING # 09WGT118

Typical performance - not guaranteed values.

5 HP 3 PH 50 HZ 987 RPM 380 V 0954M

TORQUES (LB-FT): PO=109 PU=43.5 LR=60.46 LRA=73.36

