

ABB BALDOR RELIANCE III

Customer information packet

CPX25166T

10HP, 1180//980RPM, 3PH, 60HZ, 256TY, XPFC, F1

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

Division - Division I

Specifications

Enclosure	XPFC
Frame	256TY
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	10.000 HP @ 60 HZ 7.500 HP @ 50 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	30.400 A @ 208.0 V 30.000 A @ 230.0 V 28.000 A @ 190.0 V 15.000 A @ 460.0 V 14.000 A @ 380.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	L
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	09WGZ383
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	14.0 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	0956M
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.	09-0000-1358						INV.TYPE	PWM				
CAT.NO.	CPX25166T						C HP FR	60	C HP TO	90		
HP	10//7.5						CT HZ FROM	6	CT HZ TO	60		
VOLTS	230/460//190/380						VT HZ FROM	6	VT HZ TO	60		
AMPS	30/15//28/14						MAG CUR	15.8/7.9				
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	4.5					
FRAME	256TY	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 # 73723

Typical performance - not guaranteed values

Winding: 09WGZ383-R006		Type: 0956M	Enclosure: XPFC
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	10	Full Load Torque	44.4 LB-FT
Volts	230/460	Start Configuration	direct on line
Full Load Amps	29.2/14.6	Breakdown Torque	146 LB-FT
R.P.M.	1180	Pull-up Torque	53.6 LB-FT
Hz	60 Phase	Locked-rotor Torque	73.6 LB-FT
NEMA Design Code	A KVA Code	Starting Current	95.3 A
Service Factor (S.F.)	1	No-load Current	7.9 A
NEMA Nom. Eff.	91 Power Factor	Line-line Res. @ 25°C	0.659 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	45°C
S.F. Amps		Temp. Rise @ S.F. Load	53°C
		Locked-rotor Power Factor	24.2
		Rotor inertia	4.5 LB-FT2

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	32	52	63	70	72	73
Efficiency	83.6	89.7	91.3	91.5	91.1	90.3
Speed	1196	1191	1186	1182	1176	1169
Line amperes	8.74	10.1	12.2	14.7	17.7	21

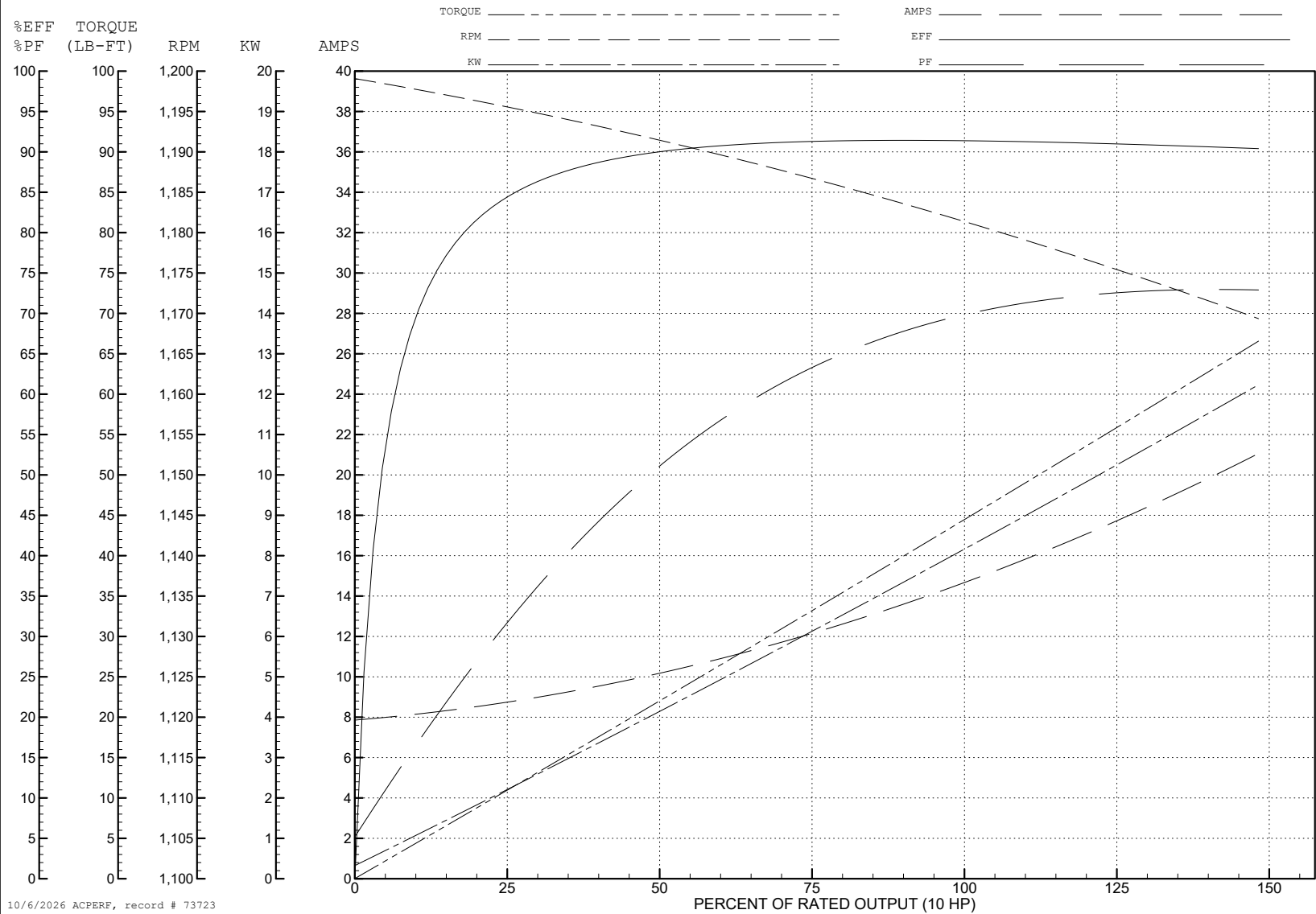
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WINDING # 09WGZ383

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1180 RPM 460 V 0956M

TORQUES (LB-FT): PO=146 PU=53.6 LR=73.6 LRA=95.3



AC Induction Motor Performance Data

Record # 75809

Typical performance - not guaranteed values

Winding: 09WGZ383-R004				Type: 0956M		Enclosure: XPFC	
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		10//7.5		Full Load Torque		40.04 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		30/15//28/14		Breakdown Torque		141 LB-FT	
R.P.M.		1180//980		Pull-up Torque		56.44 LB-FT	
Hz		60//50		Phase		3	
NEMA Design Code		A		KVA Code		J	
Service Factor (S.F.)		1		No-load Current		7.77 A	
NEMA Nom. Eff.		91		Power Factor		70	
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 380 V, 50 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	31	50	61	68	71	73
Efficiency	83	89.2	90.8	91.1	90.6	89.7
Speed	996	992	987	984	978	972
Line amperes	8.53	9.7	11.52	13.72	16.39	19.29

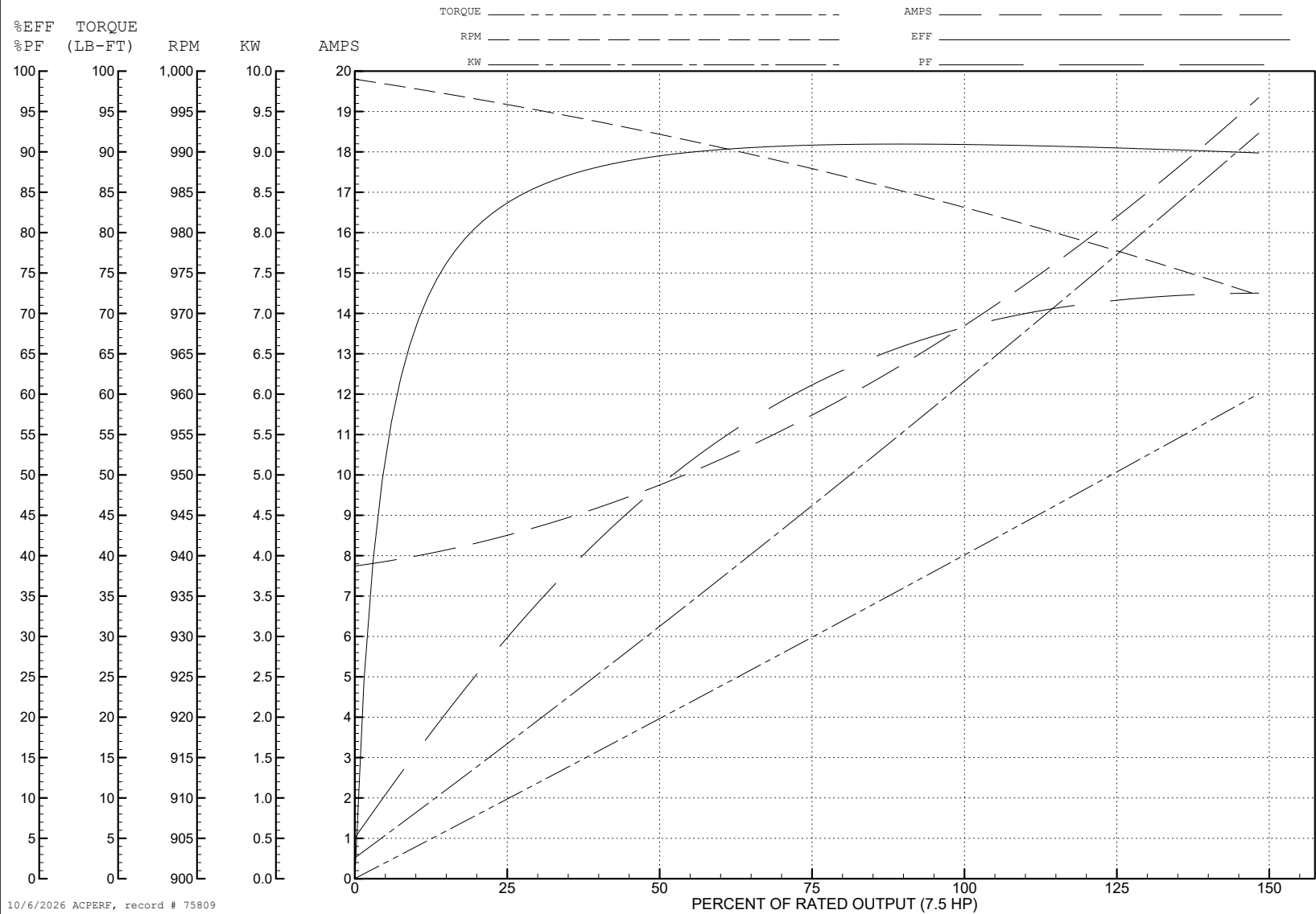
ABB Motors and Mechanical Inc.

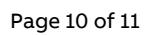
WINDING # 09WGZ383

Typical performance - not guaranteed values.

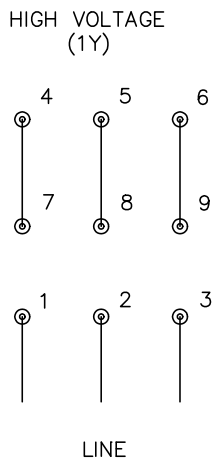
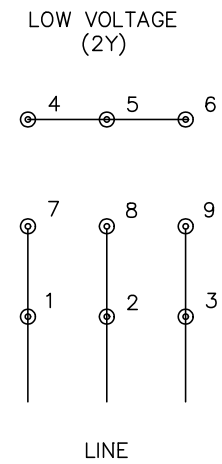
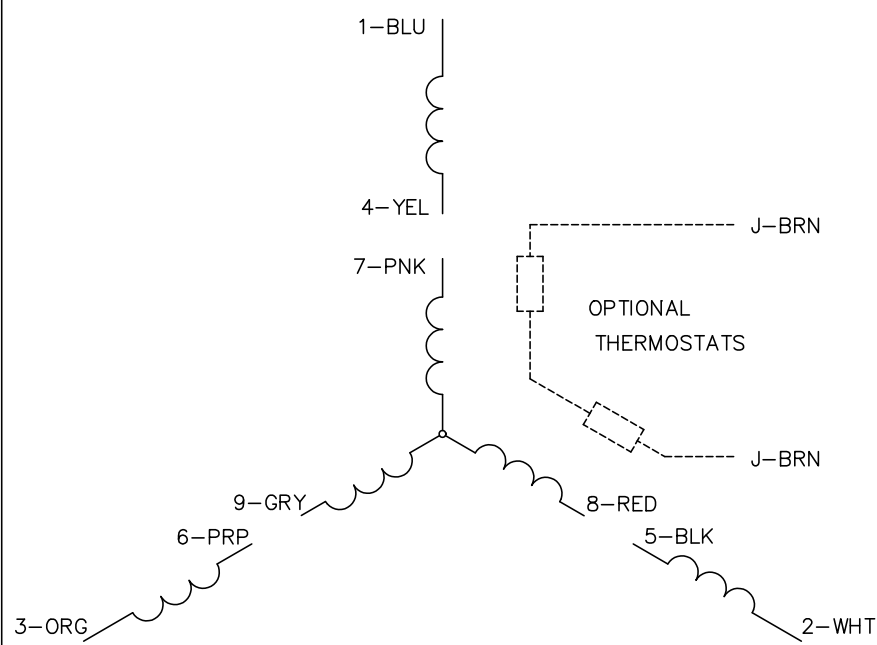
7.5 HP 3 PH 50 HZ 984 RPM 380 V 0956M

TORQUES (LB-FT) : PO=141 PU=56.44 LR=77.49 LRA=93.43





CD0005



- NOTES:
- 1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
 - 2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
 - 3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
 - 4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005