

ABB BALDOR RELIANCE III

Customer information packet

CPX25226T

50M 2P XPFC HOR 256T TSTATS CP FEAT INV

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

Division - Division I

Specifications

Enclosure	XPFC
Frame	256TY
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	15.000 HP @ 50 HZ 20.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	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	48.000 A @ 208.0 V 44.000 A @ 230.0 V 40.000 A @ 190.0 V 22.000 A @ 460.0 V 20.000 A @ 380.0 V
Design Code	A
Drip Cover	No Drip Cover

Part Detail

Revision	N
Type	AC
Mech. spec.	09M363
Base	
Status	PRD/A
Elec. spec.	09WGZ651
Layout	09LYM363
Eff. date	11-14-2023
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	02-13-2019

Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	20.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP55
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X0950M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	25.75 IN
Power Factor	91
Product Family	Hazardous Location Motor
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	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible

Shaft Slinger Indicator	Shaft Slinger
Speed	2930 rpm
	3530 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.	09M363Z651G1					INV.TYPE	PWM				
CAT.NO.	CPX25226T					C HP FR	60	C HP TO	90		
HP	20//15					CT HZ FROM	6	CT HZ TO	60		
VOLTS	230/460//190/380					VT HZ FROM	6	VT HZ TO	60		
AMPS	44/22//40/20				MAG CUR	11.6/5.8					
RPM	3530//2930				MX RPM	5400					
HZ	60//50	PH	3	CL	F	NOM.EFF.	91				
SER.F.	1.00	DES	A	SL HZ	1.2	WK2	1.28				
FRAME	256TY	RATING		40C AMB-CONT							
BLANK	55C AMB AT 1.0SF, 60C RISE										
	1.15SF ON SINEWAVE					NEMA MG-1 PT.5,IP55					

AC Induction Motor Performance Data

Record # 54032

Typical performance - not guaranteed values

Winding: 09WGZ651-R011				Type: 0950M		Enclosure: XPFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		20		Full Load Torque		30 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		44/22		Breakdown Torque		167 LB-FT	
R.P.M.		3530		Pull-up Torque		33.7 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		51 LB-FT	
NEMA Design Code		A	KVA Code	Starting Current		160 A	
Service Factor (S.F.)		1		No-load Current		5.75 A	
NEMA Nom. Eff.		91	Power Factor	Line-line Res. @ 25°C		0.43337 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		58°C	

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	65	83	89	91	91	91
Efficiency	89.4	92.7	92.9	92.4	91.4	90.1
Speed	3580.7	3566.7	3547.3	3526.6	3504.5	3479.4
Line amperes	8.04	12.2	17.1	22.4	28.2	34.2

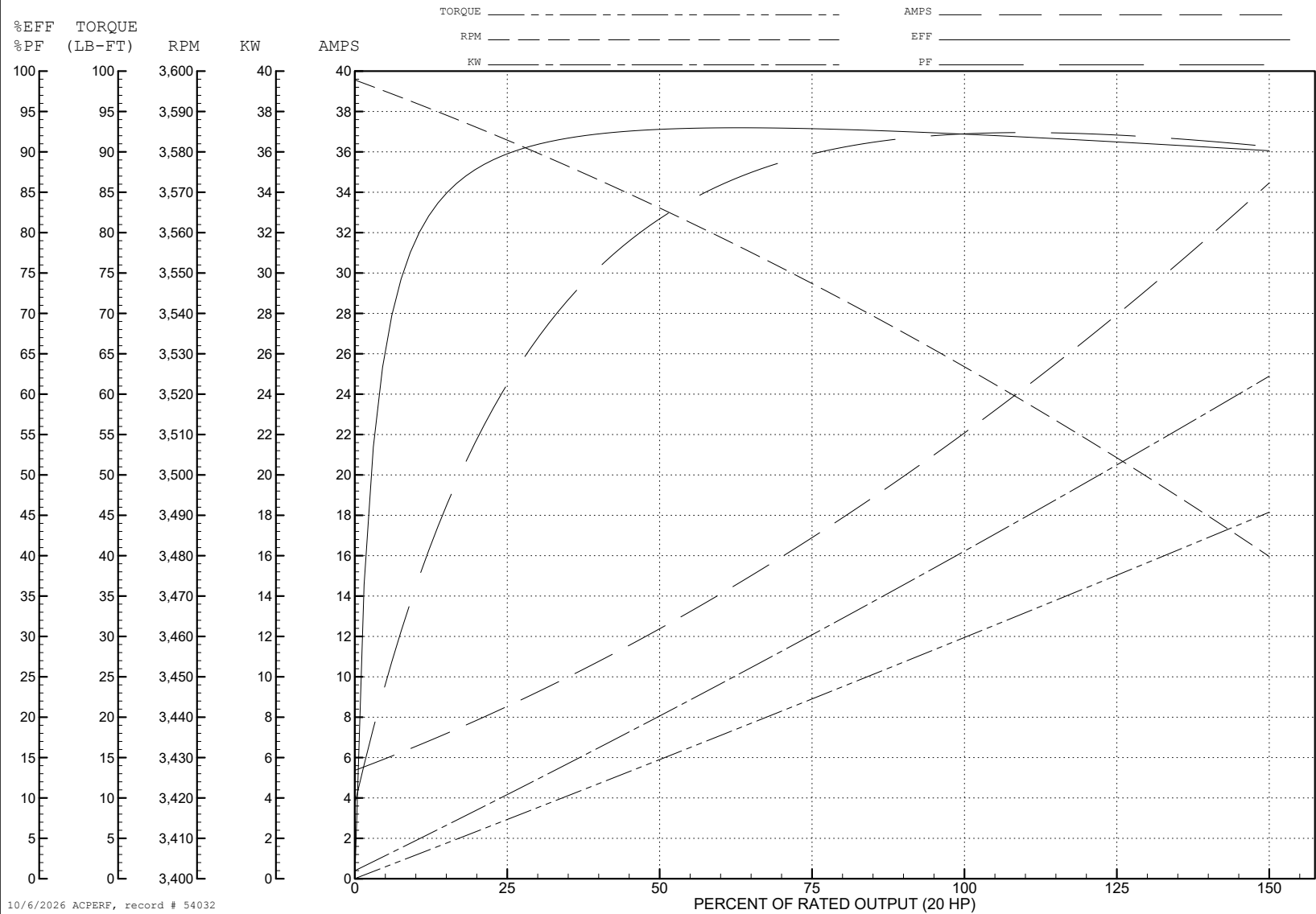
ABB Motors and Mechanical Inc.

WINDING # 09WGZ651

Typical performance - not guaranteed values.

20 HP 3 PH 60 HZ 3530 RPM 460 V 0950M

TORQUES (LB-FT): PO=167 PU=33.7 LR=51 LRA=160



AC Induction Motor Performance Data

Record # 75709

Typical performance - not guaranteed values

Winding: 09WGZ651-R010				Type: 0950M		Enclosure: XPFC	
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		20//15		Full Load Torque		27.04 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		44/22//40/20		Breakdown Torque		161 LB-FT	
R.P.M.		3530//2930		Pull-up Torque		35.64 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		53.94 LB-FT	
NEMA Design Code		A	KVA Code	H	Starting Current		156 A
Service Factor (S.F.)		1		No-load Current		5.68 A	
NEMA Nom. Eff.		91	Power Factor	91	Line-line Res. @ 25°C		0.41 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		51°C	
S.F. Amps				Temp. Rise @ S.F. Load		64°C	
				Locked-rotor Power Factor		31.3	
				Rotor inertia		1.28 LB-FT2	

Load Characteristics 380 V, 50 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	62	82	88	91	91	92
Efficiency	89.5	92.9	92.7	91.9	90.9	89.7
Speed	2983	2970	2952	2934	2914	2892
Line amperes	7.59	11.31	15.7	20.45	25.66	31.13

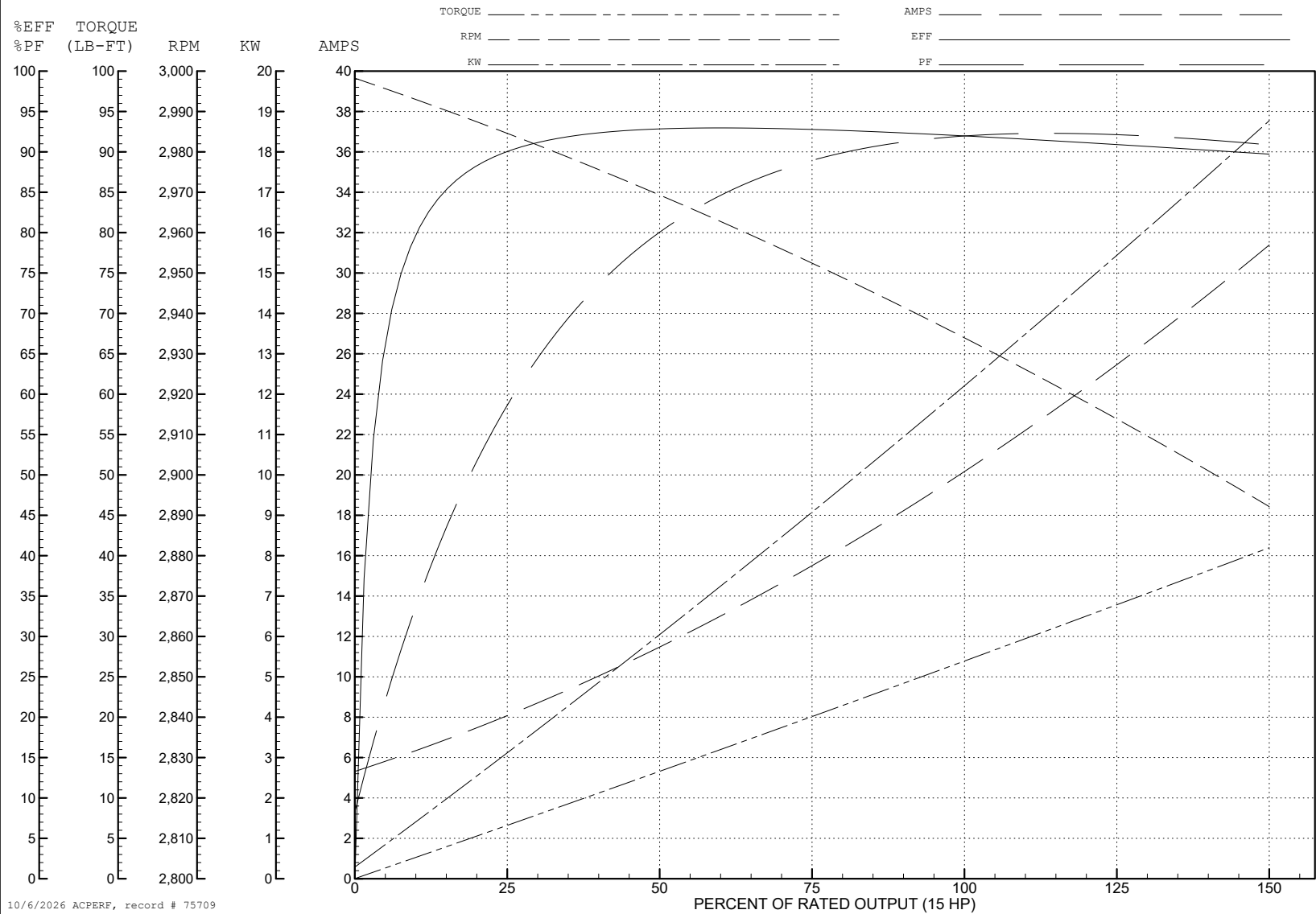
ABB Motors and Mechanical Inc.

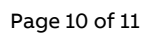
WINDING # 09WGZ651

Typical performance - not guaranteed values.

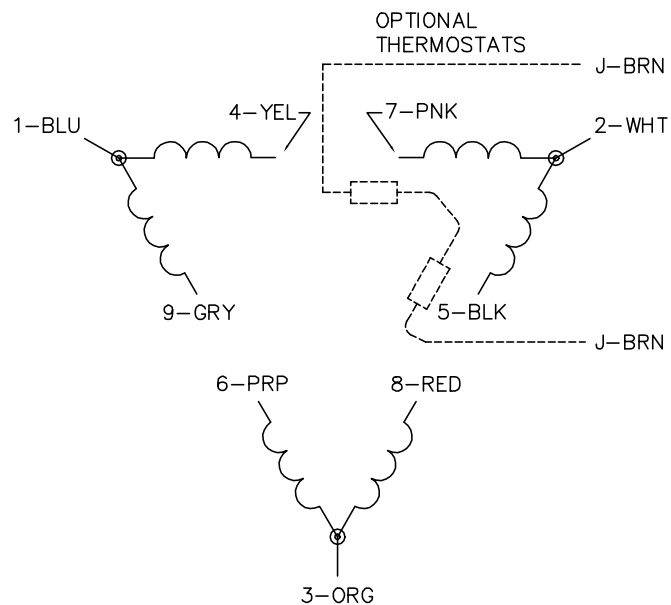
15 HP 3 PH 50 HZ 2934 RPM 380 V 0950M

TORQUES (LB-FT): PO=161 PU=35.64 LR=53.94 LRA=156

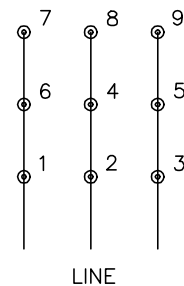




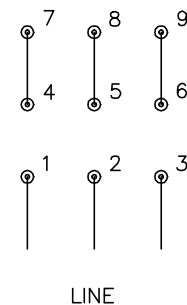
CD0180



LOW VOLTAGE
(2D)



HIGH VOLTAGE
(1D)



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.

CD0180

REV. DESC: ADD CLASS CONN00000007

REV. LTR: D

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\148

REVISED: 10: 25: 29 02/19/2019

BY: ENBRIRO

MTL: -



BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1