

ABB BALDOR RELIANCE III

Customer information packet

VDRX251544T

15HP, 1765//1470RPM, 3PH, 60/50HZ, 254TC, XPF

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	254TC
Frame Material	Iron
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 50 HZ 15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ 230.0 V @ 60 HZ 190.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV UL
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	38.000 A @ 208.0 V 36.200 A @ 230.0 V 30.400 A @ 190.0 V 18.100 A @ 460.0 V 15.200 A @ 380.0 V
Design Code	A
Drip Cover	No Drip Cover

Part Detail

Revision	N
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	09WGGZ910
Layout	09LYF525
Eff. date	04-09-2025
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	06-06-2019

Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	15.2 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0944M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	26.00 IN
Power Factor	83
Product Family	Hazardous Location Motor
Pulley Face Code	C-Face
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	1765 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

NP1401XPSLEV												
NO.							CC	010A				
S/N							TEMP CODE	T3C				
SPEC.	09-0000-1464						INV.TYPE	PWM				
CAT.NO.	VDRX251544T						C HP FR	60	C HP TO	90		
HP	15//10						CT HZ FROM	6	CT HZ TO	60		
VOLTS	230/460//190/380						VT HZ FROM	6	VT HZ TO	60		
AMPS	36.2/18.1//30.4/15.2						MAG CUR	15/7.5				
RPM	1765//1470						MX RPM	2700				
HZ	60//50	PH	3	CL	F	NOM.EFF.	92.4					
SER.F.	1.00	DES	A	SL HZ	1.2	WK2	1.93					
FRAME	254TC	RATING		40C AMB-CONT								
	55C AMB @ 1.00 SF, 60C RISE											
	1.15SF ON SINEWAVE						NEMA MG-1 PT.5,IP55					

AC Induction Motor Performance Data

Record # 51149

Typical performance - not guaranteed values

Winding: 09WGZ910-R044				Type: 0944M		Enclosure: XPFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		15		Full Load Torque		44.5 LB-FT		
Volts		230/460		Start Configuration		direct on line		
Full Load Amps		36.2/18.1		Breakdown Torque		153 LB-FT		
R.P.M.		1765		Pull-up Torque		69.5 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		86.5 LB-FT		
NEMA Design Code		A	KVA Code	Starting Current		127 A		
Service Factor (S.F.)		1		No-load Current		7.56 A		
NEMA Nom. Eff.		92.4	Power Factor	83		Line-line Res. @ 25°C		0.59555 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		54°C		
				Locked-rotor Power Factor		33		
				Rotor inertia		1.92 LB-FT2		

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	45	69	79	83	85	87
Efficiency	88.2	92.2	92.7	92.4	91.5	90.4
Speed	1791.3	1783.1	1774	1765.2	1754.6	1743.1
Line amperes	8.62	11	14.5	18.1	22.6	26.9

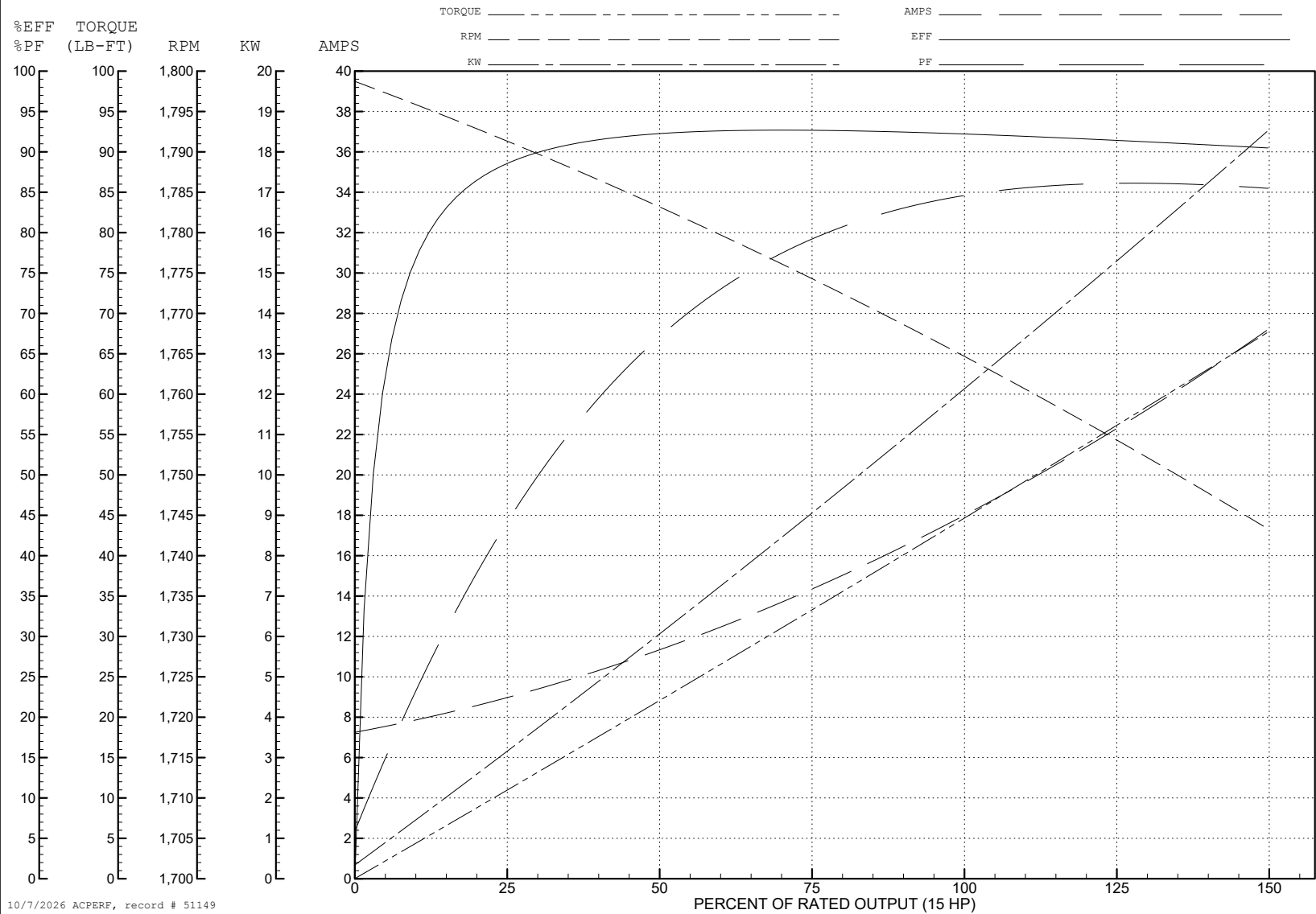
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WINDING # 09WGZ910

Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 1765 RPM 460 V 0944M

TORQUES (LB-FT): PO=153 PU=69.5 LR=86.5 LRA=127



AC Induction Motor Performance Data

Record # 75708

Typical performance - not guaranteed values

Winding: 09WGZ910-R063			Type: 0944M		Enclosure: XPFC	
Nameplate Data				380 V, 50 Hz: High Voltage Connection		
Rated Output (HP)		15//10		Full Load Torque		35.63 LB-FT
Volts		230/460//190/380		Start Configuration		direct on line
Full Load Amps		36.2/18.1//30.4/15.2		Breakdown Torque		147 LB-FT
R.P.M.		1765//1470		Pull-up Torque		71.45 LB-FT
Hz	60//50	Phase	3	Locked-rotor Torque		88.92 LB-FT
NEMA Design Code		A	KVA Code	Starting Current		123 A
Service Factor (S.F.)		1		No-load Current		7.42 A
NEMA Nom. Eff.		92.4	Power Factor	Line-line Res. @ 25°C		0.553 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		41°C
				Locked-rotor Power Factor		36.5
				Rotor inertia		1.92 lb-ft²

Load Characteristics 380 V, 50 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	40	63	74	81	83	86
Efficiency	86.7	91.4	92.1	92	91.2	90.3
Speed	1493	1486	1479	1472	1463	1454
Line amperes	8.14	9.82	12.46	15.18	18.67	21.93

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WINDING # 09WGZ910

Typical performance - not guaranteed values.

10 HP 3 PH 50 HZ 1472 RPM 380 V 0944M

TORQUES (LB-FT): PO=147 PU=71.45 LR=88.92 LRA=123

