

ABB BALDOR RELIANCE III

Customer information packet

DRX14124T

1//.75HP, 3450//2885RPM, 3PH, 60//50HZ, 143T

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	143T
Frame Material	Steel
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	.750 HP @ 50 HZ 1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 380.0 V @ 50 HZ 230.0 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	2.800 A @ 230.0 V 2.600 A @ 190.0 V 1.400 A @ 460.0 V 1.300 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	-
Type	AC
Mech. spec.	35X081
Base	
Status	PRD/A
Elec. spec.	35WGS921
Layout	35LYX081
Eff. date	05-13-2026
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	05-13-2026

Efficiency @ 100% Load	84.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	1.3 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	5400 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X3516M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	14.22 IN
Power Factor	82
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	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	2885 rpm 3450 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.	35X081S921G3						INV.TYPE		PWM				
CAT.NO.	DRX14124T						C HP FR	60	C HP TO	90			
HP	1//.75						CT HZ FROM		6	CT HZ TO		60	
VOLTS	230/460//190/380						VT HZ FROM		6	VT HZ TO		60	
AMPS	2.8/1.4//2.6/1.3						MAG CUR		1.4/.7				
RPM	3450//2885						MX RPM		5400				
HZ	60//50		PH	3	CL	F	NOM.EFF.		84				
SER.F.	1.00		DES	B	SL HZ	2	WK2		0.05				
FRAME	143T		RATING		40C AMB-CONT								
	55C AMB @ 1.0SF												
	1.15SF ON SINEWAVE						NEMA MG-1 PT 5,IP55						

AC Induction Motor Performance Data

Record # 58785

Typical performance - not guaranteed values

Winding: 35WGS921-R006			Type: 3516M		Enclosure: XPFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1	Full Load Torque		1.5 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		2.8/1.4	Breakdown Torque		6.5 LB-FT	
R.P.M.		3450	Pull-up Torque		4.8 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		5.7 LB-FT
NEMA Design Code		B	KVA Code		L	
Service Factor (S.F.)		1	No-load Current		0.68 A	
NEMA Nom. Eff.		84	Power Factor		82	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		33°C
				Locked-rotor Power Factor		56.1
				Rotor inertia		0.0443 LB-FT2

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	44	65	77	84	87	89
Efficiency	70.5	80.5	83.6	84.6	84.4	83.7
Speed	3567	3539	3510	3479	3446	3410
Line amperes	0.75	0.9	1.09	1.33	1.56	1.88

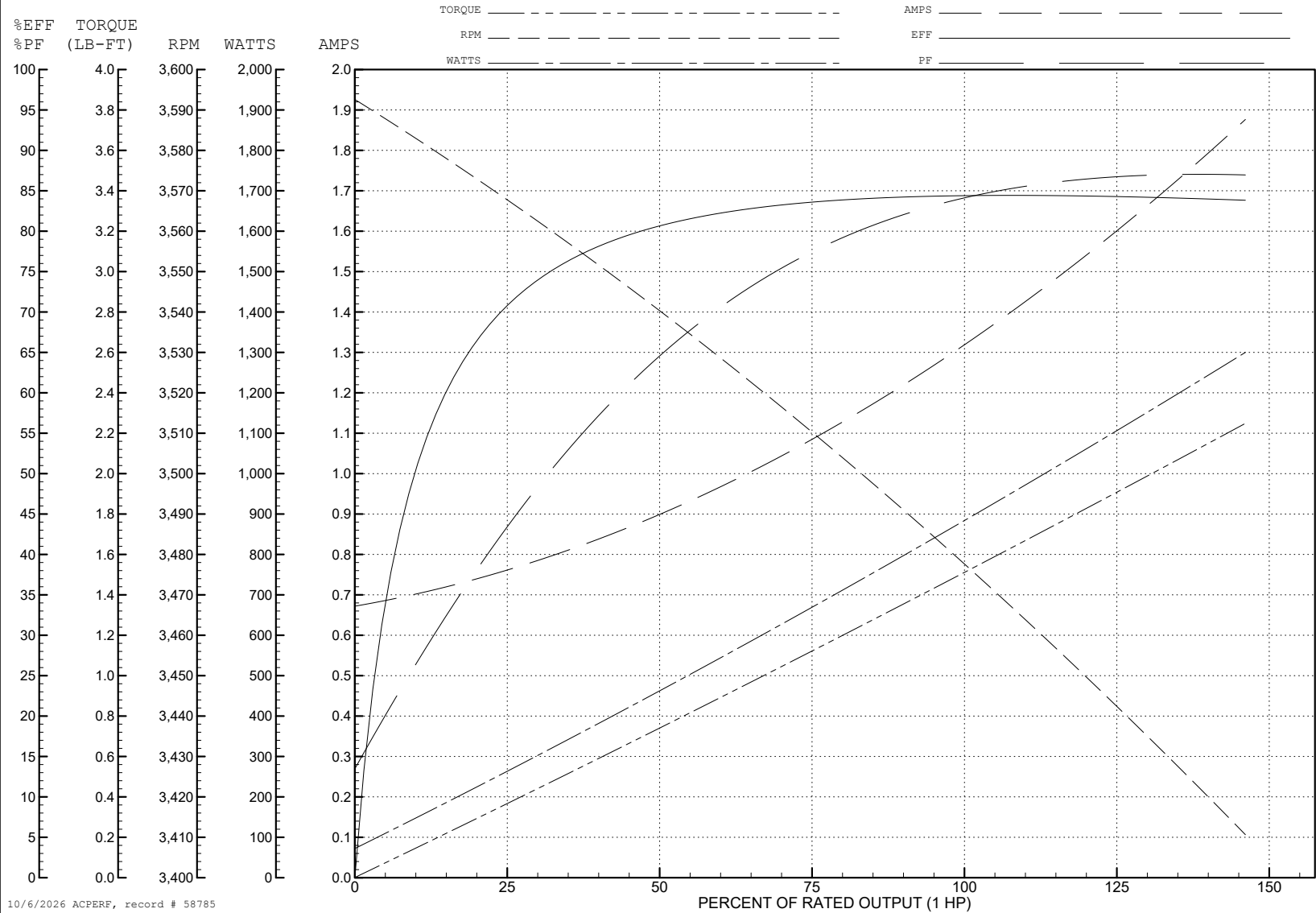
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WINDING # 35WGS921

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 3450 RPM 460 V 3516M

TORQUES (LB-FT): PO=6.5 PU=4.8 LR=5.7 LRA=12.1



AC Induction Motor Performance Data

Record # 84243

Typical performance - not guaranteed values

Winding: 35WGS921-R020			Type: 3516M		Enclosure: XPFC			
Nameplate Data				380 V, 50 Hz: High Voltage Connection				
Rated Output (HP)		1//.75		Full Load Torque		1.35 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		2.8/1.4//2.6/1.3		Breakdown Torque		5.97 LB-FT		
R.P.M.		3450//2885		Pull-up Torque		4.9 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		5.82 LB-FT	
NEMA Design Code		B		KVA Code	L	Starting Current		11.24 A
Service Factor (S.F.)		1		No-load Current		0.664 A		
NEMA Nom. Eff.		84	Power Factor		82	Line-line Res. @ 25°C		15.2 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		29°C
						Locked-rotor Power Factor		56.1
						Rotor inertia		0.0443 lb-ft²

Load Characteristics 380 V, 50 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	43	63	76	82	87	87
Efficiency	70.4	80.7	83.7	83.9	84.1	83
Speed	2970	2945	2918	2890	2860	2827
Line amperes	0.717	0.846	1.01	1.23	1.44	1.73

ABB Motors and Mechanical Inc.

WINDING # 35WGS921

Typical performance - not guaranteed values.

0.75 HP 3 PH 50 HZ 2890 RPM 380 V 3516M

TORQUES (LB-FT) : PO=5.97 PU=4.9 LR=5.82 LRA=11.24

