

ABB BALDOR RELIANCE III

Customer information packet

L1321TM

1.5HP, 1740RPM, 1PH, 60HZ, 143T, 3536L, OPEN, F

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	143T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	1.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 208.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	C UR US
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
Current @ Voltage	11.000 A @ 230.0 V 22.000 A @ 115.0 V 9.630 A @ 208.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	70.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	9.6 a

Part Detail

Revision	F
Type	AC
Mech. spec.	35DD001
Base	
Status	PRD/A
Elec. spec.	35WGG407
Layout	35LYDD001
Eff. date	12-02-2024
CD Diagram	CD0269
Poles	04
Leads	4#14 A PH,2#18 B PH,1#12 #4TH
Proprietary	False
Created date	11-02-2022

Insulation Class	F
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	4 @ 14 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3536L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.38 IN
Power Factor	80
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1740 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Do Not Use
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	Manual Thermal Overload
Winding Thermal 1 Location	SB
Winding Thermal 2	None

Nameplate

NP1257L									
CAT.NO.	L1321TM								
SPEC.	35DD001G407								
HP	1.5								
VOLTS	115/208-230								
AMP	22/9.63-11								
RPM	1740								
FRAME	143T			HZ	60			PH	1
SER.F.	1.15	CODE	N	DES	L	CL	F		
NEMA-NOM-EFF	70	PF	80						
RATING	40C AMB-CONT								
CC									
DE	6205	ODE	6203						
ENCL	OPEN	SN							

Accessories

Part number	Description	Multiplier
35-8764	C FACE KIT	A8
35EP1604A01SP	D-FLANGE KIT	

AC Induction Motor Performance Data

Record # 109517

Typical performance - not guaranteed values

Winding: 35WGG407-R002			Type: 3536L		Enclosure: OPEN	
Nameplate Data			115 V, 60 Hz: Low Voltage Connection			
Rated Output (HP)		1.5	Full Load Torque		4.49 LB-FT	
Volts		115/208-230	Start Configuration		direct on line	
Full Load Amps		22/9.63-11	Breakdown Torque		16.2 LB-FT	
R.P.M.		1740	Pull-up Torque		11.3 LB-FT	
Hz	60 Phase	1	Locked-rotor Torque		17 LB-FT	
NEMA Design Code		L KVA Code	Starting Current		147 A	
Service Factor (S.F.)		1.15	No-load Current		19.27 A	
NEMA Nom. Eff.	70 Power Factor	80	Line-line Res. @ 25°C		0.278 Ω A Ph 1.48 Ω B Ph	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		97°C	
S.F. Amps			Temp. Rise @ S.F. Load		107°C	
			Locked-rotor Power Factor		81.2	
			Rotor inertia		0.261 lb-ft²	

Load Characteristics 115 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	45	56	65	71	76	69
Efficiency	52.2	66.6	72.6	74.3	73.3	70.6	73.7
Speed	1787	1777	1765	1753	1732	1707	1740
Line amperes	15.7	16.37	18.14	20.1	23.49	27.49	22.1

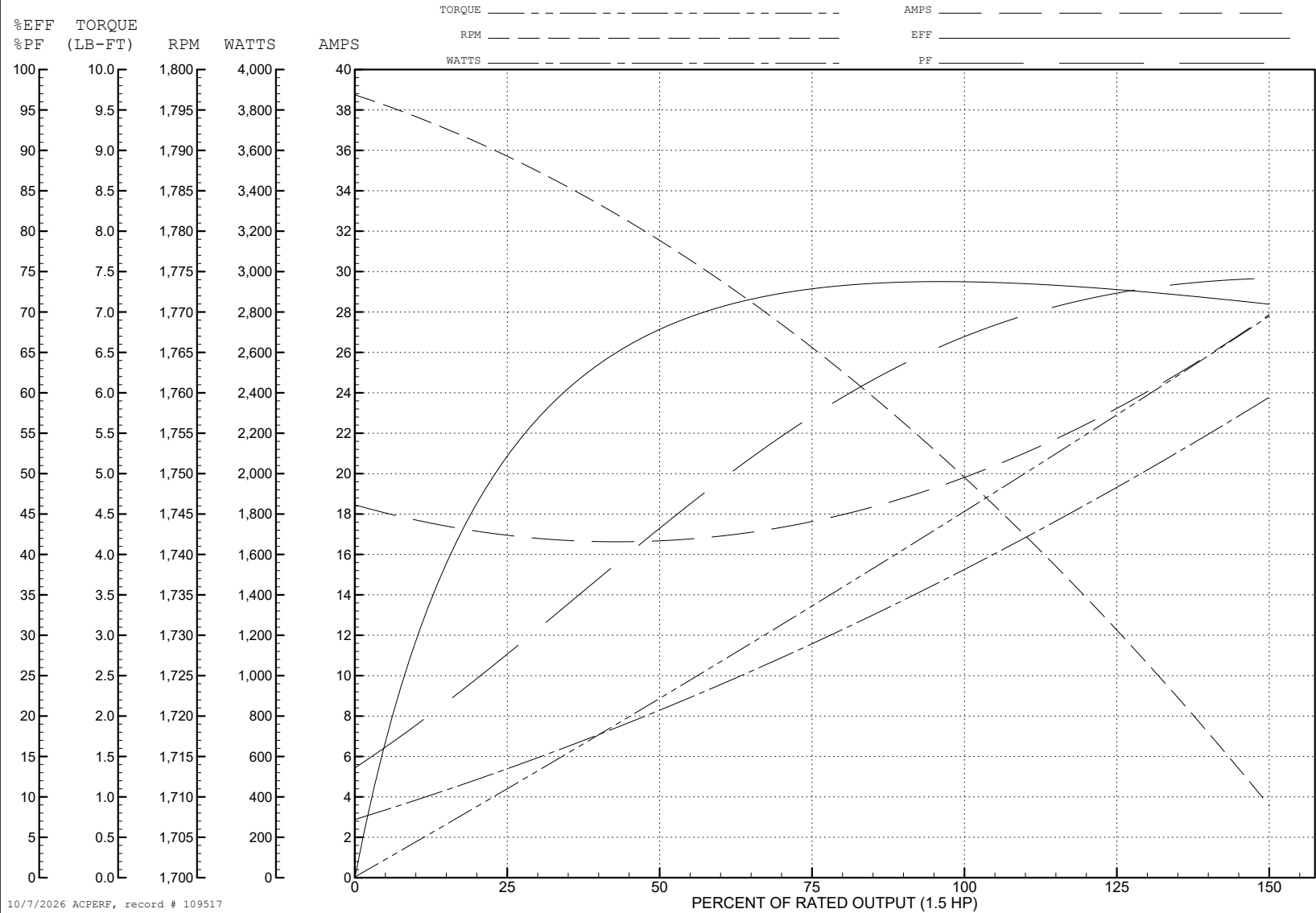
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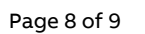
WINDING # 35WGG407

Typical performance - not guaranteed values.

1.5 HP 1 PH 60 HZ 1740 RPM 115 V 3536L

TORQUES (LB-FT): PO=16.2 PU=11.3 LR=17 LRA=147





CD0269

