

ABB BALDOR RELIANCE III

Customer information packet

VL3513-50

1.5/1.1KWHP, 2910RPM, 1PH, 50HZ, 56C, 3530LC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56C
Frame Material	Steel
Frequency	50.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	1.500 HP @ 50 HZ
Phase	1
Synchronous Speed @ Frequency	3000 RPM @ 50 HZ
Voltage @ Frequency	110.0 V @ 50 HZ 220.0 V @ 50 HZ
Agency Approvals	C UR US CE CURUS UKCA WEEE
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
Current @ Voltage	6.500 A @ 220.0 V 13.000 A @ 110.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	79.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part Detail

Revision	C
Type	AC
Mech. spec.	35E022
Base	
Status	PRD/A
Elec. spec.	35WGK257
Layout	35LYE022
Eff. date	09-17-2025
CD Diagram	CD0055
Poles	02
Leads	6#18
Proprietary	False
Created date	02-13-2024

Heater Indicator	No Heater
High Voltage Full Load Amps	6.5 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3530LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	14.10 IN
Power Factor	96
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	2910 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1372L											
CAT.NO.	VL3513-50										
SPEC.	35E022K257										
HP	1.5/1.1KW										
VOLTS	110/220										
AMP	13/6.5										
R.P.M. (1/MIN)	2910										
FRAME	56C		HZ		50		PH		1		
SER.F.	1.15	CODE	J	DES	L	CL	F				
NEMA-NOM-EFF	79.6	PF	96								
RATING	40C AMB-S1 CONT										
CC			IP44 IC411 30KG								
DE	6205		ODE		6203						
ENCL	TEFC	SN									
IE2-50HZ 81.3(75%) 77.0(50%)											

AC Induction Motor Performance Data

Record # 103731

Typical performance - not guaranteed values

Winding: 35WGK257-R001			Type: 3530LC		Enclosure: TEFC			
Nameplate Data			110 V, 50 Hz: Low Voltage Connection					
Rated Output (HP)		1.5	Full Load Torque		2.71 LB-FT			
Volts		110/220	Start Configuration		direct on line			
Full Load Amps		13/6.5	Breakdown Torque		8 LB-FT			
R.P.M.		2910	Pull-up Torque		6.2 LB-FT			
Hz	50 Phase	1	Locked-rotor Torque		9 LB-FT			
NEMA Design Code		L	KVA Code	J	Starting Current		107 A	
Service Factor (S.F.)		1.15	No-load Current		3.1 A			
NEMA Nom. Eff.		79.6	Power Factor		96	Line-line Res. @ 25°C		0.319 Ω A Ph 1.59 Ω B Ph
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		43°C	
S.F. Amps					Temp. Rise @ S.F. Load		51°C	
					Locked-rotor Power Factor		84.3	
					Rotor inertia		0.0645 lb-ft²	

Load Characteristics 110 V, 50 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	87	93	95	96	97	96	97
Efficiency	64.9	77	81.3	82	81.3	79.3	81.6
Speed	2976	2956	2933	2908	2880	2845	2891
Line amperes	4.67	7.09	9.89	12.89	16.21	19.97	14.9

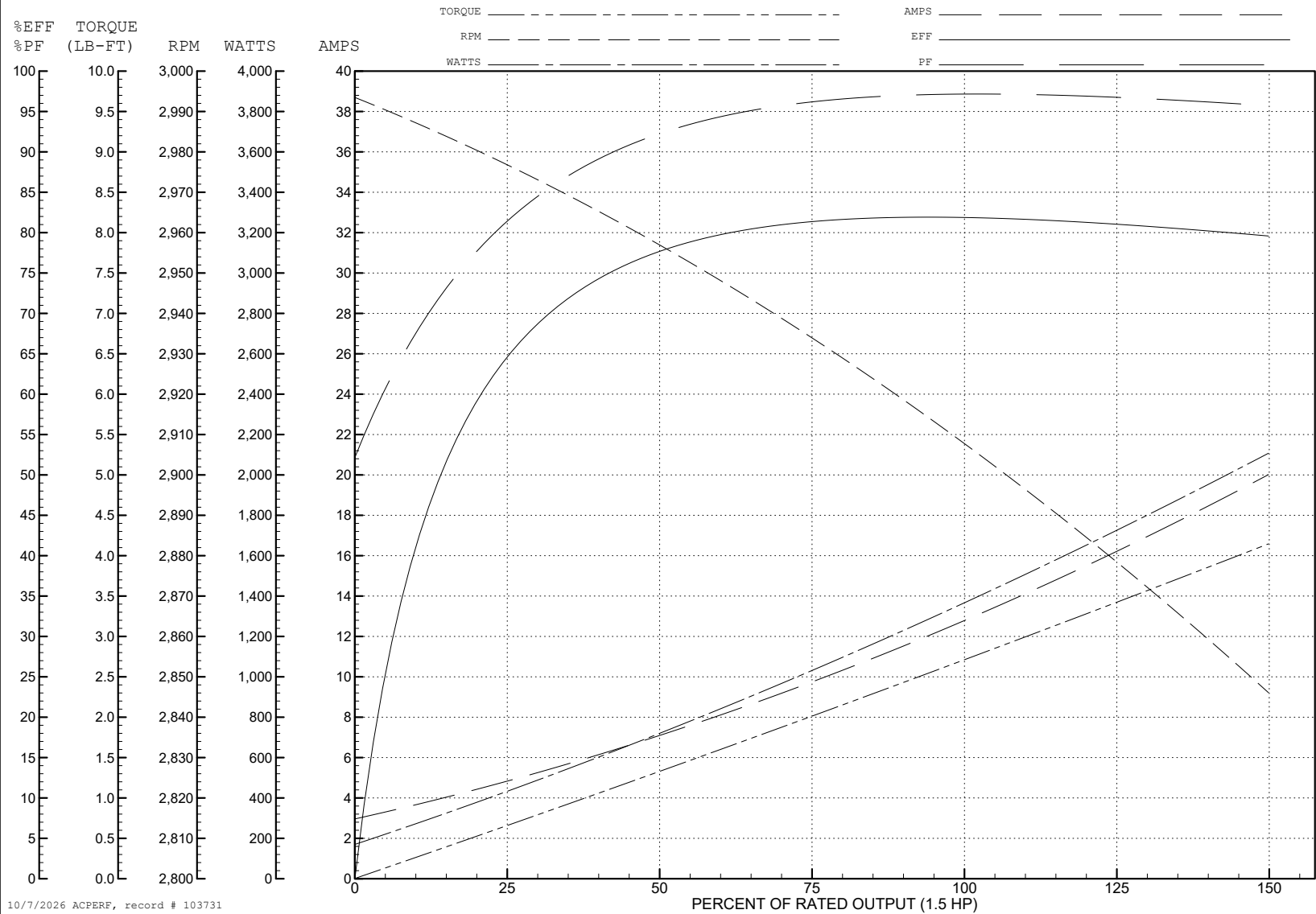
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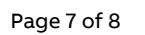
WINDING # 35WGK257

Typical performance - not guaranteed values.

1.5 HP 1 PH 50 HZ 2910 RPM 110 V 3530LC

TORQUES (LB-FT) : PO=8 PU=6.2 LR=9 LRA=107





CD0055

