

ABB BALDOR RELIANCE III

Customer information packet

VL3505

.5HP, 1145RPM, 1PH, 60HZ, 56C, 3526L, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56C
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	.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	115.0 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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	4.000 A @ 230.0 V 8.000 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	62.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.0 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	D
Type	AC
Mech. spec.	35C013
Base	
Status	PRD/A
Elec. spec.	35WGG379
Layout	35LYC013
Eff. date	12-17-2024
CD Diagram	CD00001
Poles	06
Leads	6#18
Proprietary	False
Created date	02-23-2023

IP Rating	NONE
KVA Code	F
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	3526L
Mounting Arrangement	F1
Number of Poles	6
Overall Length	13.23 IN
Power Factor	70
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1145 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

NP1256L											
CAT.NO.	VL3505										
SPEC.	35C013G379G1										
HP	.5										
VOLTS	115/230										
AMP	8/4										
RPM	1145										
FRAME	56C		HZ	60				PH	1		
SER.F.	1.25		CODE	F	DES	N		CLASS	F		
NEMA-NOM-EFF	62		PF	70							
RATING	40C AMB-CONT										
CC											
DE	6205		ODE	6203							
ENCL	TEFC		SN								
	SFA 8.8/4.4										

AC Induction Motor Performance Data

Record # 91089

Preliminary Data Sheet

Winding: 35WGG379-R002			Type: 3526L		Enclosure: TEFC		
Nameplate Data			115 V, 60 Hz: Low Voltage Connection				
Rated Output (HP)		.5	Full Load Torque		2.27 LB-FT		
Volts		115/230	Start Configuration		direct on line		
Full Load Amps		8/4	Breakdown Torque		4.64 LB-FT		
R.P.M.		1145	Pull-up Torque		5.21 LB-FT		
Hz	60 Phase	1	Locked-rotor Torque		9.35 LB-FT		
NEMA Design Code		N	KVA Code		F	Starting Current	28.22 A
Service Factor (S.F.)		1.25	No-load Current		6.12 A		
NEMA Nom. Eff.		62	Power Factor		70	Line-line Res. @ 25°C	1.65 Ω A Ph 1.71 Ω B Ph
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		61°C		
S.F. Amps		8.8/4.4	Temp. Rise @ S.F. Load		75°C		
			Locked-rotor Power Factor		100		
			Rotor inertia		0.188 lb-ft²		

Load Characteristics 115 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	45	55	63	70	75	70
Efficiency	41.2	56.2	63.3	65.7	65.6	62.5	65.6
Speed	1189	1180	1171	1159	1146	1125	1146
Line amperes	6.09	6.45	7.03	7.83	8.84	10.39	8.84

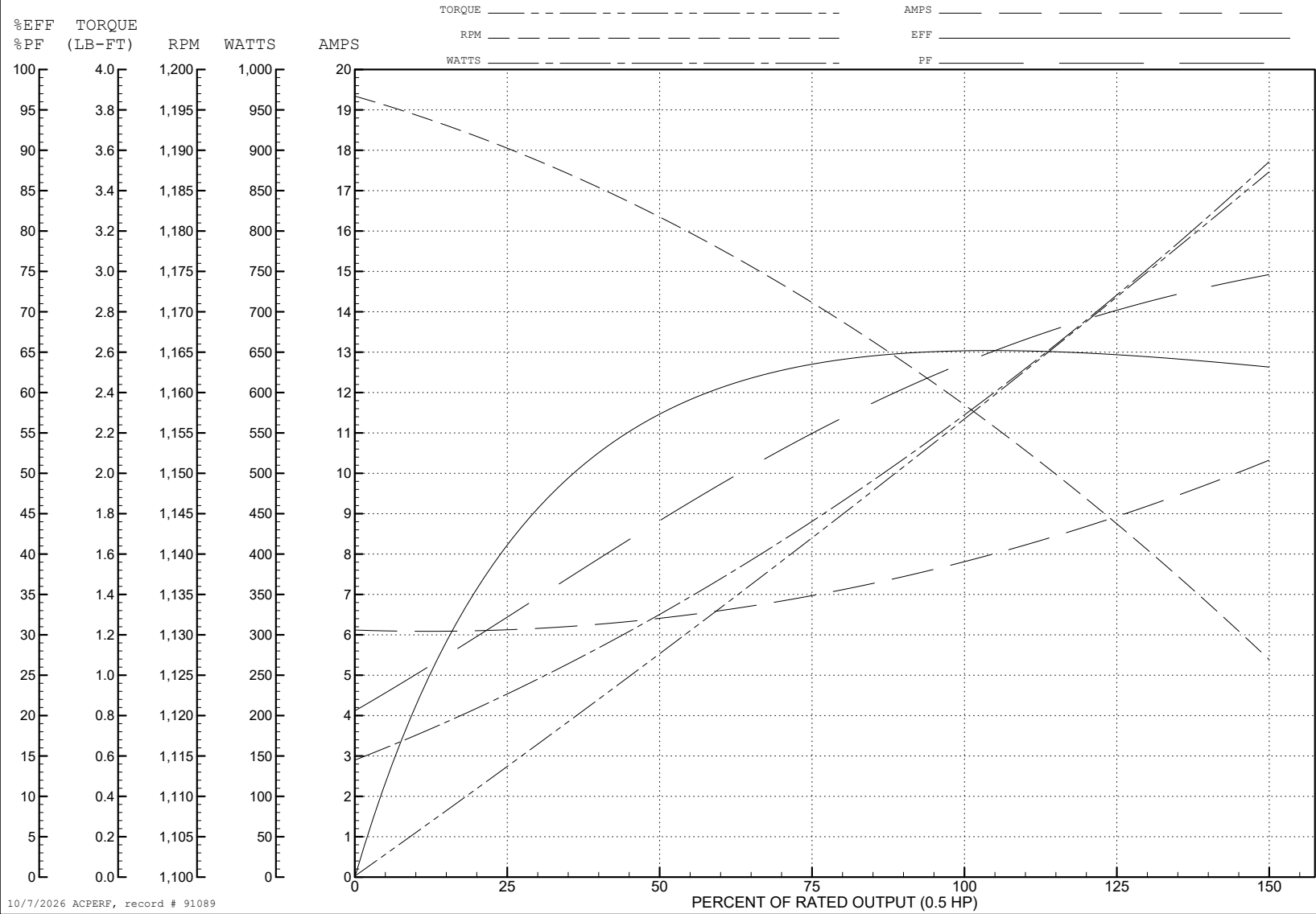
ABB Motors and Mechanical Inc.

WINDING # 35WGG379

Typical performance - not guaranteed values.

0.5 HP 1 PH 60 HZ 1145 RPM 115 V 3526L

TORQUES (LB-FT) : PO=4.64 PU=5.21 LR=9.35 LRA=28.22



CD0001

