

ABB BALDOR RELIANCE III

Customer information packet

L3510T

1HP, 1750RPM, 1PH, 60HZ, 143T, 3528L, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
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	1.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 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	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	12.500 A @ 115.0 V 6.300 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	74.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.3 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	C
Type	AC
Mech. spec.	35CC001
Base	
Status	PRD/A
Elec. spec.	35WGG376
Layout	35LYCC001
Eff. date	06-28-2024
CD Diagram	CD0001
Poles	04
Leads	6#18 Y
Proprietary	False
Created date	02-23-2023

KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3528L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.29 IN
Power Factor	69
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	1750 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.	L3510T								
SPEC.	35CC001G376								
HP	1								
VOLTS	115/230								
AMP	12.5/6.3								
RPM	1750								
FRAME	143T		HZ	60			PH	1	
SER.F.	1.15	CODE	L	DES	L	CLASS		F	
NEMA-NOM-EFF	74	PF	69						
RATING	40C AMB-CONT								
CC									
DE	6205		ODE	6203					
ENCL	TEFC	SN							
	SFA 13.9/6.95								

Parts List

Part number	Description	Quantity
SA414869	SA 35CC001G376	1.000 ea
RA406638	RA 35CC001G376	1.000 ea
EC1645B06	ELEC CAP 165V 2.0 X 4.3	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
35CB3009	35 CB W/1.09 DIA. LEAD HOLE @ 6:	1.000 ea
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
35EP3122A00	MASTER ODE,203 BRG,.683SH,#26 DRN,GRSR,F	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
35CB4802A02SP	CAPACITOR COVER, STAMPED X	1.000 ea
35GS3001A02	GASKET, CA.COVER, 5.38 LONG .06 CS301	1.000 ea
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	2.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP3123F00	MASTER DE,205 BRG,.998SH,#26 DRN,GRSR	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
35FH4005A84SP	IEC FH W/GRSR, NO DIMPLES PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
35CB4521GX	CONDUIT BOX LID KIT **ORDER INDIV PARTS	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.017 ga
SP5051A24	MODEL 35 TORQ STATIONARY SWITCH FOR "L"	1.000 ea

HA3100A18	THRUBOLT 10-32 X 9.250	4.000 ea
LC0001A01	CONN LABEL / WARNING LABEL (LC0001 / LB1	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea

Accessories

Part number	Description	Multiplier
35-8762	C FACE KIT	A8
35EP1506A01SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data

Record # 94946

Typical performance - not guaranteed values

Winding: 35WGG376-R001			Type: 3528L		Enclosure: TEFC			
Nameplate Data			115 V, 60 Hz: Low Voltage Connection					
Rated Output (HP)		1	Full Load Torque		3.01 LB-FT			
Volts		115/230	Start Configuration		direct on line			
Full Load Amps		12.5/6.3	Breakdown Torque		9.7 LB-FT			
R.P.M.		1750	Pull-up Torque		7.8 LB-FT			
Hz	60	Phase	1	Locked-rotor Torque		13.9 LB-FT		
NEMA Design Code		L	KVA Code	L	Starting Current		85.3 A	
Service Factor (S.F.)		1.15	No-load Current		9.53 A			
NEMA Nom. Eff.		74	Power Factor		69	Line-line Res. @ 25°C		0.525 Ω A Ph 1.17 Ω B Ph
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		62°C	
S.F. Amps		13.9/6.95	Temp. Rise @ S.F. Load		70°C			
			Locked-rotor Power Factor		94.8			
			Rotor inertia		0.203 lb-ft²			

Load Characteristics 115 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	48	60	69	76	80	80
Efficiency	53.5	67.3	72.9	74.9	74.6	72.8	67.2
Speed	1786	1775	1763	1750	1735	1714	1704
Line amperes	9.3	9.98	11.06	12.51	14.28	16.82	13.9

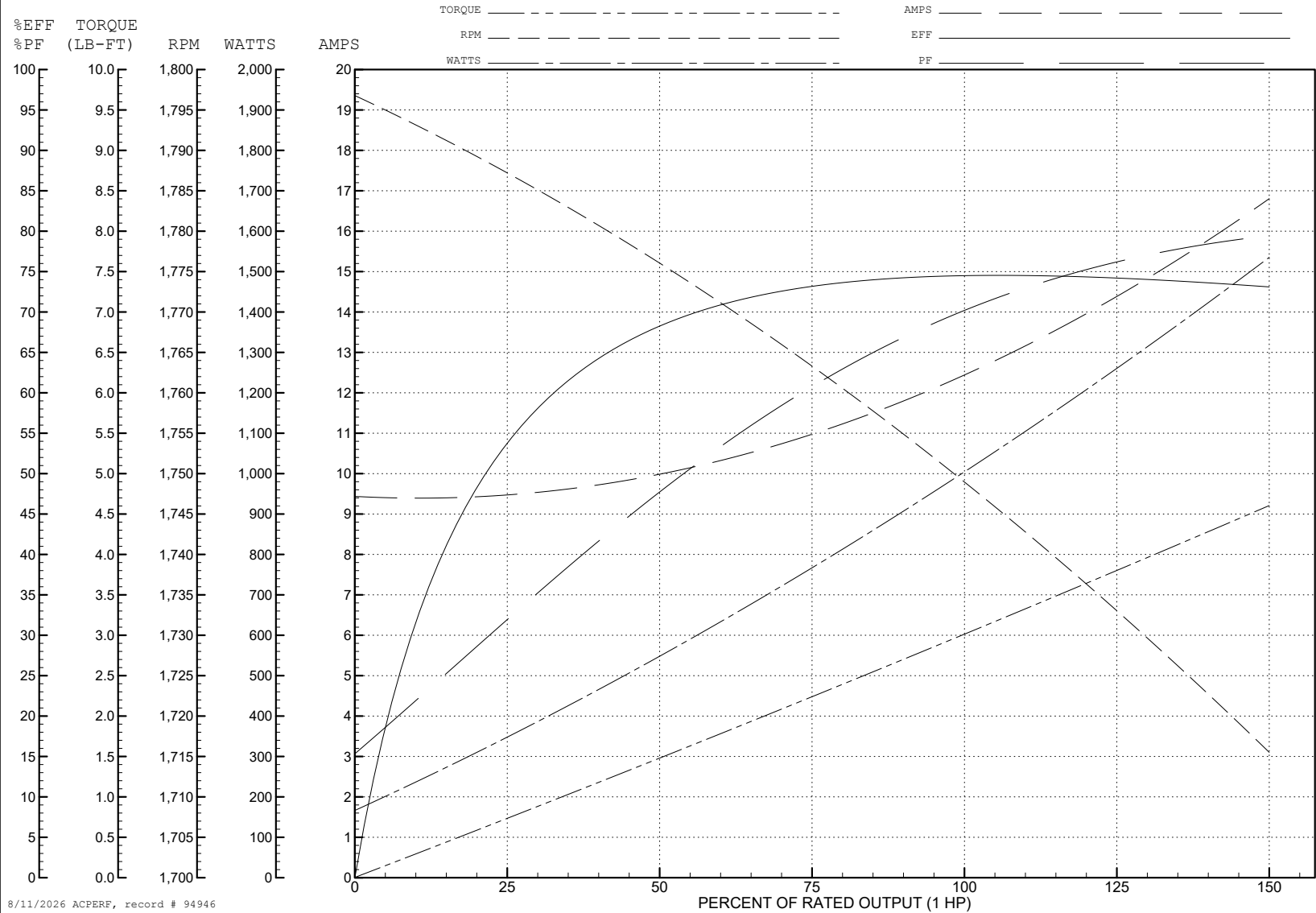
ABB Motors and Mechanical Inc.

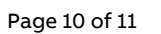
WINDING # 35WGG376

Typical performance - not guaranteed values.

1 HP 1 PH 60 HZ 1750 RPM 115 V 3528L

TORQUES (LB-FT): PO=9.7 PU=7.8 LR=13.9 LRA=85.3





CD0001

