

ABB BALDOR RELIANCE III

Customer information packet

AFL3524A

3HP, 3450RPM, 1PH, 60HZ, 145TZ, 3535LC, TEAO

Class - None

Division - Not Applicable

Specifications

Enclosure	TEAO
Frame	145TZ
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	3.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
Agency Approvals	CSA UR
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	15.000 A @ 230.0 V
Drip Cover	No Drip Cover
Duty Rating	CONT
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Terminal Panel
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	15.0 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	No Lifting Lugs

Part Detail

Revision	AF
Type	AC
Mech. spec.	35T906
Base	
Status	PRD/A
Elec. spec.	35WGY039
Layout	35LYT906
Eff. date	07-25-2024
CD Diagram	CD0225A02
Poles	02
Leads	2#14 A PH,3#18 B&J
Proprietary	False
Created date	06-22-2007

Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Terminal Panel Or Lead Hole
Motor Lead Quantity/Wire Size	2 @ 14 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3535LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.61 IN
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible: Connected Standard
Shaft Slinger Indicator	No Slinger
Speed	3450 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	Automatic Thermal Overload
Winding Thermal 1 Location	SB
Winding Thermal 2	None

Nameplate

NP1280L									
CAT.NO.	AFL3524A								
SPEC.	35T906Y039								
HP	3 AIR OVER								
VOLTS	230								
AMP	15								
RPM	3450								
FRAME	145TZ		HZ	60		PH		1	
SER.F.	1.00		CODE	H	DES	-		CL	B
NEMA-NOM-EFF			PF						
RATING	40C AMB-CONT								
CC									
DE	6205		ODE	6203					
ENCL	TEAO		SN						

Parts List

Part number	Description	Quantity
SA111028	SA 35T906Y039	1.000 ea
RA102407	RA 35T906Y039	1.000 ea
OC3012F12SP	CYL OIL CAP 12MFD/370V	1.000 ea
EC1216C06SP	ELEC CAP, 216-259 MFD, 250V, 2.06D X 4.	1.000 ea
RM1001A01	GROMMET "MIDSTATES"	1.000 ea
11XW0832G06	#8-32 X 3/8, TAPTITE II, HEX WSHR SLTD	1.000 ea
35EP3102A02SP	FR ENDPLATE, MACH	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
35CB3801	CAPACITOR COVER, CAST	1.000 ea
34GS3002	GASKET, CAPACITOR BOX	1.000 ea
HA7010	CAPACITOR RETENTION CLAMP	1.000 ea
NS2501A02	INSULATOR, CAPACITOR BOX	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	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
WD4100A01	DP-875 HEYCO PLUG OR 62MP0875 MICRO PLAS	1.000 ea
35CB4500	TERMINAL BOX LID STAMPED	1.000 ea
35GS1002	GASKET,1/16 THICK LEXIDE	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 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
MG1025C02	WILKOFASST SG, 787.105, TAN	0.017 ga
HA3100A22	THRUBOLT 10-32 X 10.125	4.000 ea
34GS5003	FOAM SLEEVE, ID = 2 1/16" X 3 3/8"	2.000 ea
SP5066A03	MODEL 35 TERMINAL PANEL SWITCH WITH LEAD	1.000 ea

LB1118	LABEL,WARNING (ROLL LABEL)	1.000 ea
LC0085	CONNECTION LABEL	1.000 ea
NP1280L	ALUM FARM DUTY UL CC THERMAL	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data

Record # 10130

Typical performance - not guaranteed values

Winding: 35WGY039-R001			Type: 3535LC		Enclosure: TEAO	
Nameplate Data				230 V, 60 Hz: Single Voltage Motor		
Rated Output (HP)		3 AIR OVER		Full Load Torque		4.5 LB-FT
Volts		230		Start Configuration		direct on line
Full Load Amps		15		Breakdown Torque		14.7 LB-FT
R.P.M.		3450		Pull-up Torque		11 LB-FT
Hz		60 Phase		Locked-rotor Torque		13.6 LB-FT
NEMA Design Code		- KVA Code		Starting Current		92 A
Service Factor (S.F.)		1		No-load Current		9 A
NEMA Nom. Eff.		0 Power Factor		Line-line Res. @ 25°C		0.577 Ω A Ph 2.53 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		

Load Characteristics 230 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	47	64	75	83	86	87
Efficiency	55	70	75	78	78	77
Speed	3560	3555	3520	3500	3490	3465
Line amperes	9.5	11	13	15	18	21.5

ABB Motors and Mechanical Inc.

WINDING # 35WGY039

Typical performance - not guaranteed values.

3 HP 1 PH 60 HZ 3450 RPM 230 V 3535LC

TORQUES (LB-FT): PO=14.7 PU=11 LR=13.6 LRA=92





