

ABB BALDOR RELIANCE III

Customer information packet

CHC565A

1 AIR OVERHP, 1090RPM, 1PH, 60HZ, 56, 3534C, T

Class - None

Division - Not Applicable

Specifications

Enclosure	TEAO
Frame	56
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Oil Capacitor Start and Run
Output @ Frequency	1.000 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	Resilient
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	10.100 A @ 115.0 V 5.100 A @ 230.0 V
Design Code	-
Drip Cover	No Drip Cover
Duty Rating	CONT
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	5.1 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	B

Part Detail

Revision	-
Type	AC
Mech. spec.	35E3460
Base	
Status	PRD/A
Elec. spec.	35WGZ929
Layout	35LYE3460
Eff. date	12-02-2024
CD Diagram	CD0381
Poles	06
Leads	6#18,1#14 #1TH Y
Proprietary	False
Created date	02-23-2023

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	3534C
Mounting Arrangement	F1
Number of Poles	6
Overall Length	13.28 IN
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Resilient Mount
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1090 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

NP1257L									
CAT.NO.	CHC565A								
SPEC.	35E3460Z929G1								
HP	1 AIR OVER								
VOLTS	115/230								
AMP	10.1/5.1								
RPM	1090								
FRAME	56			HZ	60		PH	1	
SER.F.	1.00	CODE	B	DES	-	CL	F		
NEMA-NOM-EFF		PF							
RATING	40C AMB-CONT								
CC									
DE	6203	ODE	6203						
ENCL	TEAO	SN							

Parts List

Part number	Description	Quantity
SA432583	SA 35E3460Z929G1	1.000 ea
RA424847	RA 35E3460Z929G1	1.000 ea
OC3016F12SP	CYL OIL CAP 16MFD/370V	1.000 ea
RM1001A01	GROMMET "MIDSTATES"	1.000 ea
11XW0832G06	#8-32 X 3/8, TAPTITE II, HEX WSHR SLTD	1.000 ea
LD5000A01	LEAD ASSY, ML1400DF14 7" RING TRM EA END	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	2.000 ea
HW1003A10	WASHER, #10 EX TH LK, ZN X	2.000 ea
35EP3102A01SP	FR ENDPLATE, MACH	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	3.000 ea
RM1000A02	CUSHION RING, MODEL 35 SAME AS A07	1.000 ea
HA6005A01	CLAMP, BASE	2.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	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
35EP1101A01	PU ENPLATE, MACH	1.000 ea
RM1000A02	CUSHION RING, MODEL 35 SAME AS A07	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
HA6005A01	CLAMP, BASE	2.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	1.000 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
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea

MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.017 ga
SP5078	MODEL 35 TERMINAL PANEL HARDWARE ONLY, N	1.000 ea
HA3100A25	THRUBOLT 10-32 X 11.000	4.000 ea
35BA4002C01	RESILIENT BASE, STAMPED	1.000 ea
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 ea
LC0052	CONNECTION LABEL	1.000 ea
NP1257L	ALUM UL CC THERMAL REV MTG	1.000 ea
36PA1000	PKG GRP, PRINT PK1016A08	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

AC Induction Motor Performance Data

Record # 89162

Typical performance - not guaranteed values

Winding: 35WGZ929-R001			Type: 3534C		Enclosure: TEAO	
Nameplate Data			115 V, 60 Hz: Low Voltage Connection			
Rated Output (HP)		1	Full Load Torque		4.73 LB-FT	
Volts		115/230	Start Configuration		direct on line	
Full Load Amps		10.1/5.1	Breakdown Torque		7.14 LB-FT	
R.P.M.		1090	Pull-up Torque		1.03 LB-FT	
Hz	60 Phase	1	Locked-rotor Torque		1.12 LB-FT	
NEMA Design Code	- KVA Code	B	Starting Current		28.4 A	
Service Factor (S.F.)		1	No-load Current		2.23 A	
NEMA Nom. Eff.	66 Power Factor	93	Line-line Res. @ 25°C		1.28 Ω A Ph 13.3 Ω B Ph	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		91°C	
			Locked-rotor Power Factor		72.2	
			Rotor inertia		0.246 lb-ft ²	

Load Characteristics 115 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100
Power Factor	89	92	93	93
Efficiency	52.8	67.7	70.6	67.5
Speed	1180	1159	1131	1090
Line amperes	3.73	5.48	7.56	10.13

ABB Motors and Mechanical Inc.

WINDING # 35WGZ929

Typical performance - not guaranteed values.

1 HP 1 PH 60 HZ 1090 RPM 115 V 3534C

TORQUES (LB-FT): PO=7.14 PU=1.03 LR=1.12 LRA=28.4





