

ABB BALDOR RELIANCE III

Customer information packet

CHC545A

1 AIR OVERHP, 1710RPM, 1PH, 60HZ, 56, 3528C, 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	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	Resilient
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	10.200 A @ 115.0 V 5.100 A @ 230.0 V
Design Code	-
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	75.5 %
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

Part Detail

Revision	F
Type	AC
Mech. spec.	35E3460
Base	
Status	PRD/A
Elec. spec.	35WZ932
Layout	35LYE3460
Eff. date	11-06-2024
CD Diagram	CD0381
Poles	04
Leads	6#18,1#14 #1TH
Proprietary	False
Created date	02-23-2023

KVA Code	G
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	3528C
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.41 IN
Power Factor	82
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	1710 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.	CHC545A								
SPEC.	35E3460Z932G1								
HP	1 AIR OVER								
VOLTS	115/230								
AMP	10.2/5.1								
RPM	1710								
FRAME	56			HZ	60		PH	1	
SER.F.	1.00		CODE	G		DES	-	CL	F
NEMA-NOM-EFF	75.5		PF	82					
RATING	40C AMB-CONT								
CC									
DE	6203		ODE	6203					
ENCL	TEAO		SN						

AC Induction Motor Performance Data

Record # 109141

Typical performance - not guaranteed values

Winding: 35WGZ932-R001			Type: 3528C		Enclosure: TEAO	
Nameplate Data				230 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		1 AIR OVER		Full Load Torque		3.072 LB-FT
Volts		115/230		Start Configuration		direct on line
Full Load Amps		10.2/5.1		Breakdown Torque		8.1 LB-FT
R.P.M.		1725		Pull-up Torque		1.14 LB-FT
Hz	60	Phase	1	Locked-rotor Torque		1.3 LB-FT
NEMA Design Code		- KVA Code		Starting Current		27 A
Service Factor (S.F.)		1		No-load Current		3.09 A
NEMA Nom. Eff.		75.5	Power Factor	82	Line-line Res. @ 25°C	
						2.679 Ω A Ph 1.8285 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		51°C

Load Characteristics 230 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	53	69	79	86	90	93
Efficiency	47	64.1	70.6	73.2	72.9	70.4
Speed	1776.2	1757.1	1736.5	1711.2	1679.7	1653.7
Line amperes	3.25	3.65	4.29	5.11	6.15	7.49

ABB Motors and Mechanical Inc.

WINDING # 35WGZ932

Typical performance - not guaranteed values.

1 HP 1 PH 60 HZ 1725 RPM 230 V 3528C

TORQUES (LB-FT): PO=8.1 PU=1.14 LR=1.3 LRA=27



