

ABB BALDOR RELIANCE III

Customer information packet

VSSEWDM3558

2HP, 1750RPM, 3PH, 60HZ, 56C, 3528M, TEFC, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56C
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
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	5.600 A @ 208.0 V 5.300 A @ 230.0 V 2.650 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part Detail

Revision	E
Type	AC
Mech. spec.	35Z182
Base	
Status	PRD/A
Elec. spec.	35WGZ821
Layout	35LYZ182
Eff. date	06-14-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-10-2022

Heater Indicator	No Heater
High Voltage Full Load Amps	2.7 a
Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3528M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.88 IN
Power Factor	81
Product Family	Washdown All Stainless
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1765 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

NP1953A01									
CAT.NO.									
SPEC.	35Z182Z821G1								
HP	2								
VOLTS	230/460								
AMP	5.6/2.8								
RPM	1760								
FRAME	56C			HZ		60		PH	3
SER.F.	1.15	CODE		K	DES	B	CLASS	H	
NEMA-NOM-EFF	86.5		PF		81				
RATING	40C AMB-CONT								
CC	010A								
DE	6205			ODE		6205			
ENCL	TEFC	SN							
	SFA 6/3								

AC Induction Motor Performance Data

Record # 87359

Preliminary Data Sheet

Winding: 35WGZ821-R001			Type: 3528M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		2	Full Load Torque		5.97 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		5.6/2.8	Breakdown Torque		21 LB-FT		
R.P.M.		1760	Pull-up Torque		11.9 LB-FT		
Hz		60	Phase		3	Locked-rotor Torque	15.1 LB-FT
NEMA Design Code		B	KVA Code		K	Starting Current	22.5 A
Service Factor (S.F.)		1.15	No-load Current		1.55 A		
NEMA Nom. Eff.		86.5	Power Factor		81	Line-line Res. @ 25°C	9.54 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		64°C
S.F. Amps		6.3/3.15	Temp. Rise @ S.F. Load		77°C		
			Locked-rotor Power Factor		57.9		
			Rotor inertia		0.202 LB-FT2		

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	36	57	70	78	82	85	83
Efficiency	79.5	86.2	87.4	87	85.7	83.9	86.3
Speed	1791	1782	1772	1762	1750	1738	1758
Line amperes	1.64	1.91	2.3	2.78	3.33	3.94	3.02

ABB Motors and Mechanical Inc.

WINDING # 35WGZ821

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1760 RPM 460 V 3528M

TORQUES (LB-FT): PO=21 PU=11.9 LR=15.1 LRA=22.5





