

ABB BALDOR RELIANCE III

Customer information packet

AFM3529

1HP, 3450RPM, 3PH, 60HZ, 56Z, 3416M, TEAO, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEAO
Frame	56Z
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 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	1.800 A @ 460.0 V 3.600 A @ 230.0 V 4.100 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	75.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Terminal Panel
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	AQ
Type	AC
Mech. spec.	34K062
Base	
Status	PRD/A
Elec. spec.	34WG0282
Layout	34LYK062
Eff. date	01-02-2025
CD Diagram	CD0005
Poles	02
Leads	9#18 14"LG +/- .5" Y
Proprietary	False
Created date	01-01-0001

High Voltage Full Load Amps	1.8 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Lead Hole
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3416M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	10.97 IN
Power Factor	71
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
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

Nameplate

NP1279L									
CAT.NO.	AFM3529								
SPEC.	34K62-282								
HP	1								
VOLTS	230/460								
AMP	3.6/1.8								
RPM	3450								
FRAME	56Z		HZ	60		PH		3	
SER.F.	1.25		CODE	H	DES	B		CL	B
NEMA-NOM-EFF	75.5		PF	71					
RATING	40C AMB-CONT								
CC									
DE	6203		ODE	6203					
ENCL	TEAO		SN						
	SFA 4/2								

AC Induction Motor Performance Data

Record # 6568

Typical performance - not guaranteed values

Winding: 34WG0282-R001			Type: 3416M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1	Full Load Torque		1.5 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		3.6/1.8	Breakdown Torque		6.5 LB-FT		
R.P.M.		3450	Pull-up Torque		5.2 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		5.5 LB-FT	
NEMA Design Code		B	KVA Code	H	Starting Current		11 A
Service Factor (S.F.)		1.25		No-load Current		1.1 A	
NEMA Nom. Eff.		75.5	Power Factor	71	Line-line Res. @ 25°C		16.7 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		71°C	
S.F. Amps		4/2		Temp. Rise @ S.F. Load		85°C	

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	37	53	68	76	77	76	77
Efficiency	61.2	72.1	76.8	77.7	77.2	76.2	77.2
Speed	3558	3524	3476	3434	3390	3349	3390
Line amperes	1.17	1.25	1.45	1.65	1.9	2.15	1.9

ABB Motors and Mechanical Inc.

WINDING # 34WG0282

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 3450 RPM 460 V 3416M

TORQUES (LB-FT): PO=6.5 PU=5.2 LR=5.5 LRA=11





