

ABB BALDOR RELIANCE III

Customer information packet

HBEM3611T

32M 4P TEFC HOR 182T

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	182T
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	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM WEEE
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	8.400 A @ 230.0 V 9.000 A @ 208.0 V 4.200 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Electrically Isolated Bearings
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	E
Type	AC
Mech. spec.	36T429
Base	
Status	PRD/A
Elec. spec.	36WGS266
Layout	36LYT429
Eff. date	03-27-2026
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	01-05-2022

High Voltage Full Load Amps	4.2 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3632M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.54 IN
Power Factor	75
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1760 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

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CAT #	HBEM3611T					WGT	73	LBS					
SPEC	36T429S266G1					ENCL	TEFC						
SER #						CC	010A	IP	54				
HP	3	MAG CUR				4.6/2.3							
VOLTS	230/460					NEMA NOM. EFF					89.5		
AMPS	8.4/4.2					PF	75						
RATING	40C AMB-CONT												
RPM	1760					MAX RPM		2700					
FRAME	182T	HZ	60	CODE		K	CLASS		H				
SER.F.	1.15	SF AMP	9.2/4.6				PH	3	DES	B			
DE	6206		ODE		6205								
LUBRICATION	POLYREX EM												
ID LOGO	INV TYPE:		VPWM		CHP	60	TO	90	1.5:1				
ID LOGO	WK2	0.3	CT	6	TO	60	10:1						
ID LOGO	SL HZ	1.33	VT	3	TO	60	20:1						
						ID.ABB/BALDOR/							
YR													

AC Induction Motor Performance Data

Record # 35724

Typical performance - not guaranteed values

Winding: 36WGS266-R002			Type: 3632M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		3	Full Load Torque		8.8 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		8.4/4.2	Breakdown Torque		37.6 LB-FT		
R.P.M.		1760	Pull-up Torque		15.2 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		21.7 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		32.7 A
Service Factor (S.F.)		1.15	No-load Current		2.3 A		
NEMA Nom. Eff.		89.5	Power Factor	75	Line-line Res. @ 25°C		3.81 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		44°C
S.F. Amps			Temp. Rise @ S.F. Load		52°C		
			Locked-rotor Power Factor		42.2		
			Rotor inertia		0.3 LB-FT2		

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	55	68	75	80	82	77
Efficiency	81.1	87.8	89.6	89.8	89.7	88.2	89.2
Speed	1791	1783	1773	1764	1753	1741	1755
Line amperes	2.47	2.85	3.43	4.09	4.89	5.78	4.63

ABB Motors and Mechanical Inc.

WINDING # 36WGS266

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1760 RPM 460 V 3632M

TORQUES (LB-FT): PO=37.6 PU=15.2 LR=21.7 LRA=32.7





