

ABB BALDOR RELIANCE III

Customer information packet

EM3212T

5HP, 3455RPM, 3PH, 60HZ, 182T, 3620M, OPSB, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
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	5.000 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	CURUSEEV NEMA PREMIUM
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	12.200 A @ 230.0 V 13.500 A @ 208.0 V 6.080 A @ 460.0 V
Design Code	A
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
Heater Indicator	No Heater
High Voltage Full Load Amps	6.1 a

Part Detail

Revision	B
Type	AC
Mech. spec.	36G548
Base	
Status	PRD/A
Elec. spec.	36WGZ652
Layout	36LYG548
Eff. date	03-31-2026
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	11-06-2025

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3620M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.62 IN
Power Factor	91
Product Family	General Purpose
Pulley End Bearing Type	Ball
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	3455 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

NP3553LUA									
CAT.NO.	EM3212T								
SPEC.	36G548Z652								
HP	5								
VOLTS	230/460								
AMPS	12.2/6.08								
RPM	3455								
FRAME	182T		HZ	60		PH	3		
SF	1.15	CODE	J	DES	A	CLASS	F		
NEMA NOM. EFF	86.5	PF	91						
RATING	40C AMB-CONT								
CC	010A								
ENCL	OPSB	SN							
DE	6206		ODE	6205					
VPWM INVERTER READY		SFA 14/7							
CT30-60(2:1) VT3-60(20:1)									
USABLE AT	50HZ 5HP 190/380V 15.2/7.6A						SF1.0		

Accessories

Part number	Description	Multiplier
36-3403	C FACE KIT	A8
36EP1405A09SP	D-FLANGE KIT	

AC Induction Motor Performance Data

Record # 115762

Typical performance - not guaranteed values

Winding: 36WGZ652-R001				Type: 3620M		Enclosure: OPSB	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		5		Full Load Torque		7.649 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		12.2/6.08		Breakdown Torque		26.8 LB-FT	
R.P.M.		3455		Pull-up Torque		17.6 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		18.8 LB-FT	
NEMA Design Code		A	KVA Code	J	Starting Current		42.5 A
Service Factor (S.F.)		1.15		No-load Current		2.16 A	
NEMA Nom. Eff.		86.5	Power Factor	91	Line-line Res. @ 25°C		3.971 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		43°C	
S.F. Amps		14/7		Temp. Rise @ S.F. Load		55°C	
				Locked-rotor Power Factor		54.7	

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	54	77	86	90	92	92	91
Efficiency	84.9	89	88.8	87.2	85	82.1	85.9
Speed	3568.5	3534.9	3496.5	3454.7	3406.5	3355.9	3426
Line amperes	2.55	3.45	4.64	6.01	7.57	9.29	6.95

ABB Motors and Mechanical Inc.

WINDING # 36WGZ652

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 3455 RPM 460 V 3620M

TORQUES (LB-FT): PO=26.8 PU=17.6 LR=18.8 LRA=42.5





