

ABB BALDOR RELIANCE III

Customer information packet

VEM3613T

5HP, 3480RPM, 3PH, 60HZ, 184TC, 3628M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184TC
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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	11.500 A @ 230.0 V 13.000 A @ 208.0 V 5.730 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	5.7 a

Part Detail

Revision	A
Type	AC
Mech. spec.	36A003
Base	
Status	PRD/A
Elec. spec.	36WGZ651
Layout	36LYA003
Eff. date	01-08-2026
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	11-07-2025

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3628M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.54 IN
Power Factor	92
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
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	3480 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

NP3441LUA									
CAT.NO.	VEM3613T								
SPEC	36A003Z651								
HP	5								
VOLTS	230/460								
AMPS	11.5/5.73								
RPM	3480								
FRAME	184TC		HZ	60		PH	3		
SF	1.15	CODE	L	DES	A	CLASS	F		
NEMA NOM. EFF	88.5	PF	92						
RATING	40C AMB-CONT								
CC	010A								
ENCL	TEFC	SER							
DE	6206		ODE	6205					
VPWM INVERTER READY		SFA 13.2/6.61							
CT6-60H(10:1)VT3-60H(20:1									
	50HZ 5HP 190/380V 14.2/7.1A						SF1.0		

AC Induction Motor Performance Data

Record # 115761

Typical performance - not guaranteed values

Winding: 36WGZ651-R001			Type: 3628M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		5	Full Load Torque		7.602 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		11.5/5.73	Breakdown Torque		32.1 LB-FT		
R.P.M.		3480	Pull-up Torque		21.3 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		26.2 LB-FT	
NEMA Design Code		A	KVA Code	L	Starting Current		54.1 A
Service Factor (S.F.)		1.15	No-load Current		1.66 A		
NEMA Nom. Eff.		88.5	Power Factor	92	Line-line Res. @ 25°C		2.821 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		74°C
S.F. Amps		13.2/6.61	Temp. Rise @ S.F. Load		95°C		
			Locked-rotor Power Factor		48.1		

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	63	82	89	92	93	94	93
Efficiency	86.4	90	89.9	88.6	86.8	84.7	87.5
Speed	3566.6	3534.1	3499.1	3460.2	3417.5	3371.4	3435
Line amperes	2.16	3.16	4.37	5.75	7.25	8.84	6.65

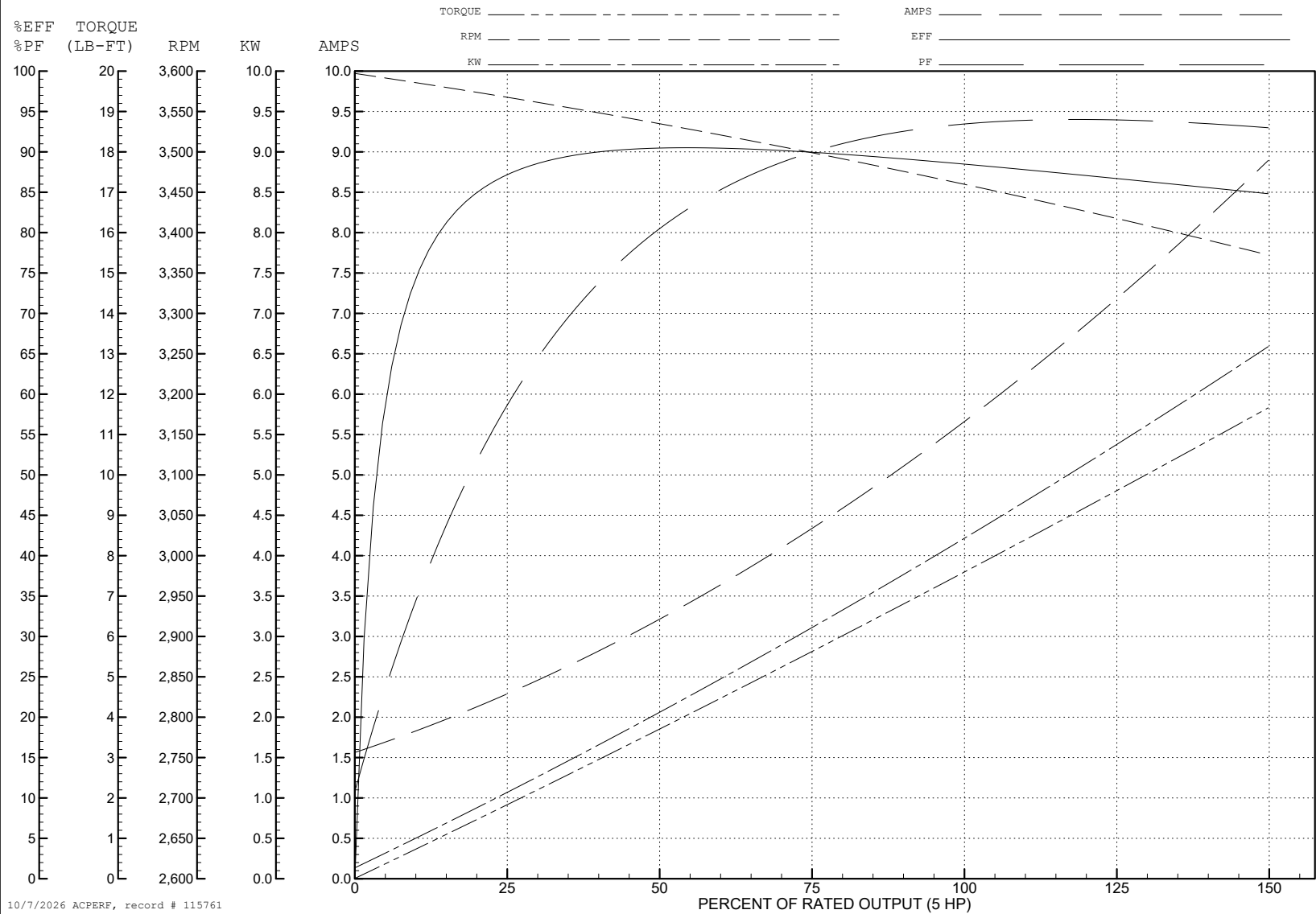
ABB Motors and Mechanical Inc.

WINDING # 36WGZ651

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 3480 RPM 460 V 3628M

TORQUES (LB-FT): PO=32.1 PU=21.3 LR=26.2 LRA=54.1



10/7/2026 ACPERF, record # 115761

