

ABB BALDOR RELIANCE III

Customer information packet

VEM7044T

5//3HP, 1750//1450RPM, 3PH, 60//50HZ, 184TC

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	184TC
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 50 HZ 5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ 230.0 V @ 60 HZ 190.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV CSA 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	5.300 A @ 380.0 V 6.700 A @ 460.0 V 13.900 A @ 208.0 V 13.400 A @ 230.0 V 10.600 A @ 190.0 V
Design Code	B
Drip Cover	No Drip Cover

Part Detail

Revision	K
Type	AC
Mech. spec.	36E396
Base	
Status	PRD/A
Elec. spec.	36WGS268
Layout	36LYE396
Eff. date	06-25-2026
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	09-30-2015

Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	5.3 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3642M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.56 IN
Power Factor	78
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	1.00
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible

Shaft Slinger Indicator	No Slinger
Speed	1450 rpm
	1750 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1426XPSLEV									
NO.		CC	010A						
SER.									
SPEC.	36E396S268G1								
CAT.NO.	VEM7044T								
HP	5//3	T. CODE	T3C						
VOLTS	230/460//190/380								
AMPS	13.4/6.7//10.6/5.3								
RPM	1750//1450								
HZ	60//50	PH	3	CL	B				
SER.F.	1.00	DES	B	CODE	J				
RATING	40C AMB-CONT								
FRAME	184TC	NEMA-NOM-EFF							89.5
		PF	78						
BLANK									

AC Induction Motor Performance Data

Record # 35598

Typical performance - not guaranteed values

Winding: 36WGS268-R003			Type: 3642M		Enclosure: XPFC			
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		5//3		Full Load Torque		14.9 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		13.4/6.7//10.6/5.3		Breakdown Torque		52.2 LB-FT		
R.P.M.		1750//1450		Pull-up Torque		31.5 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		34.9 LB-FT	
NEMA Design Code		B		KVA Code	J	Starting Current		49.1 A
Service Factor (S.F.)		1		No-load Current		3.24 A		
NEMA Nom. Eff.		89.5	Power Factor		78	Line-line Res. @ 25°C		2.27 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		71°C
						Locked-rotor Power Factor		40
						Rotor inertia		0.391 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	39	60	72	78	83	83
Efficiency	85	89.7	90.6	89.6	88.6	87
Speed	1789	1776	1762	1750	1733	1714
Line amperes	3.55	4.31	5.43	6.65	7.94	9.64

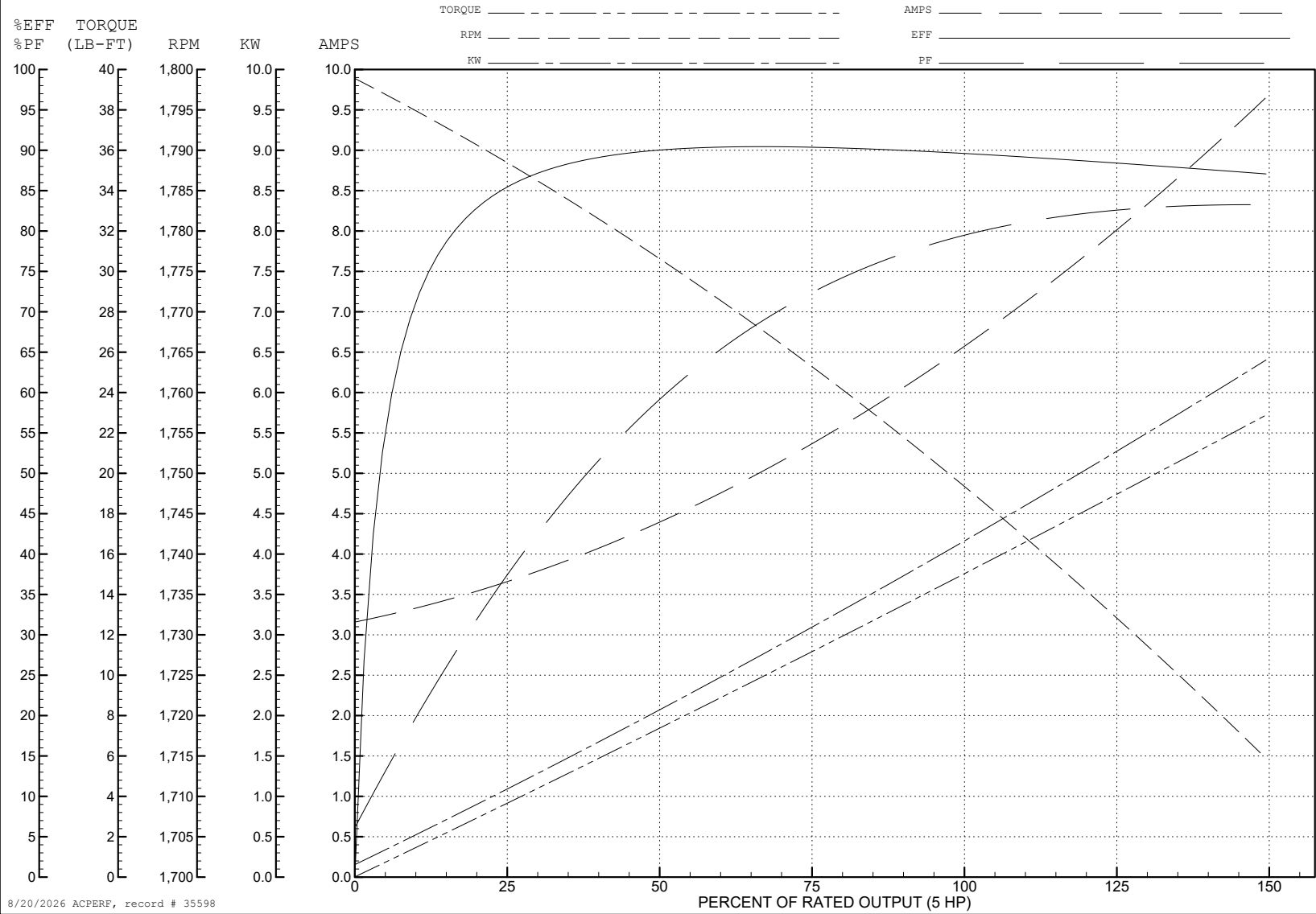
ABB Motors and Mechanical Inc.

WINDING # 36WGS268

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1750 RPM 460 V 3642M

TORQUES (LB-FT) : PO=52.2 PU=31.5 LR=34.9 LRA=49.1



AC Induction Motor Performance Data

Record # 35599

Typical performance - not guaranteed values

Winding: 36WGS268-R003			Type: 3642M		Enclosure: XPFC			
Nameplate Data					380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		5//3		Full Load Torque		10.7 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		13.4/6.7//10.6/5.3		Breakdown Torque		49.5 LB-FT		
R.P.M.		1750//1450		Pull-up Torque		32.1 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		35.6 LB-FT	
NEMA Design Code		B		KVA Code	J	Starting Current		47.4 A
Service Factor (S.F.)		1		No-load Current		3.17 A		
NEMA Nom. Eff.		89.5	Power Factor	78	Line-line Res. @ 25°C		2.27 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		54°C		
				Locked-rotor Power Factor		44		
				Rotor inertia		0.391 LB-FT2		

Load Characteristics 380 V, 50 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	31	50	63	71	78	80
Efficiency	81.4	87.7	89.4	89.1	88.6	87.3
Speed	1492	1482	1471	1462	1449	1436
Line amperes	3.36	3.83	4.54	5.31	6.14	7.26

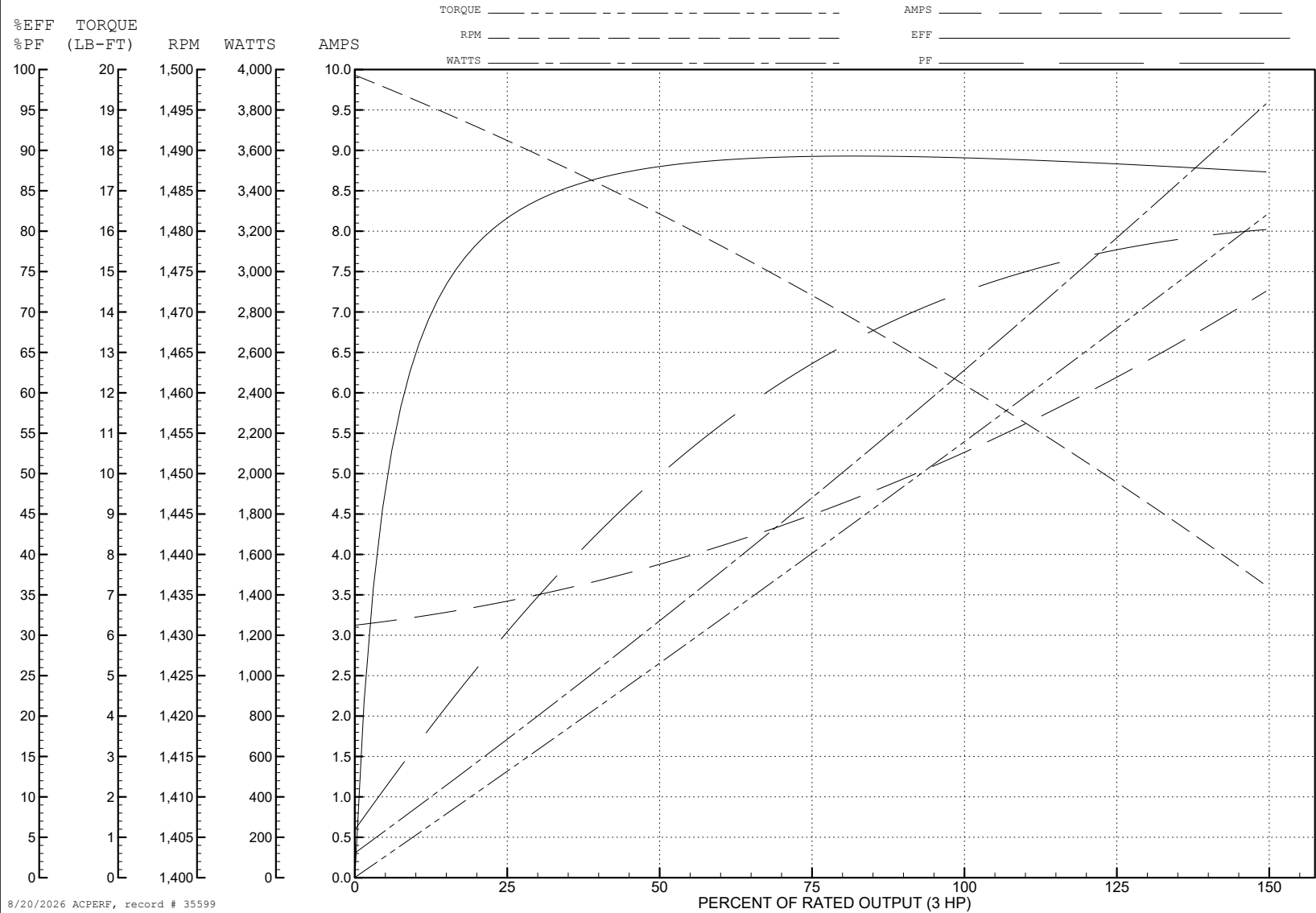
ABB Motors and Mechanical Inc.

WINDING # 36WGS268

Typical performance - not guaranteed values.

3 HP 3 PH 50 HZ 1462 RPM 380 V 3642M

TORQUES (LB-FT) : PO=49.5 PU=32.1 LR=35.6 LRA=47.4



AC Induction Motor Performance Data

Record # 35728

Typical performance - not guaranteed values

Winding: 36WGS268-R003			Type: 3642M		Enclosure: XPFC			
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		5//3		Full Load Torque		14.9 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		13.4/6.7//10.6/5.3		Breakdown Torque		52.2 LB-FT		
R.P.M.		1750//1450		Pull-up Torque		31.5 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		34.9 LB-FT	
NEMA Design Code		B		KVA Code	J	Starting Current		49.1 A
Service Factor (S.F.)		1		No-load Current		3.24 A		
NEMA Nom. Eff.		89.5	Power Factor		78	Line-line Res. @ 25°C		2.27 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		71°C
						Locked-rotor Power Factor		40
						Rotor inertia		0.391 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	39	60	72	78	83	83
Efficiency	85	89.7	90.6	89.6	88.6	87
Speed	1789	1776	1762	1750	1733	1714
Line amperes	3.55	4.31	5.43	6.65	7.94	9.64

ABB Motors and Mechanical Inc.

WINDING # 36WGS268

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1750 RPM 460 V 3642M

TORQUES (LB-FT): PO=52.2 PU=31.5 LR=34.9 LRA=49.1

