

ABB BALDOR RELIANCE III

Customer information packet

VXM18342T

3//2HP, 1760//1460RPM, 3PH, 60//50HZ, 182TC

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	182TC
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	2.000 HP @ 50 HZ 3.000 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 UL
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
Constant Torque Speed Range	6
Current @ Voltage	9.000 A @ 208.0 V 8.400 A @ 230.0 V 7.200 A @ 190.0 V 4.200 A @ 460.0 V 3.600 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	36WGS266
Layout	36LYQ330
Eff. date	06-01-2023
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	03-02-2021

Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	3.6 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3632M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.86 IN
Power Factor	75
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1760 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

NP0887XPSLEV													
NO.							CC	010A					
S/N							TEMP CODE		T3C				
SPEC.	36-0000-0476						INV.TYPE		PWM				
CAT.NO.	VXM18342T						C HP FR	60	C HP TO	90			
HP	3//2						CT HZ FROM	6	CT HZ TO	60			
VOLTS	230/460//190/380						VT HZ FROM	6	VT HZ TO	60			
AMPS	8.4/4.2//7.2/3.6				MAG CUR		4.6/2.3						
RPM	1760//1460				MX RPM		2700						
HZ	60//50	PH	3	CL	F	NOM.EFF.		89.5					
SER.F.	1.15	DES	B	SL HZ		1.4	WK2	0.3					
FRAME	182TC	RATING		40C AMB-CONT									
	NEMA MG-1 PART 5, IP54												
	1.15 SF ON SINE WAVE												

AC Induction Motor Performance Data

Record # 76180

Typical performance - not guaranteed values

Winding: 36WGS266-R015			Type: 3632M		Enclosure: XPFC		
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	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	
				Locked-rotor Power Factor		42.2	
				Rotor inertia		0.298 LB-FT2	

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	35	55	68	75	80	82
Efficiency	81	87.7	89.6	89.8	89.6	88.1
Speed	1791	1783	1773	1764	1753	1741
Line amperes	2.47	2.85	3.43	4.09	4.89	5.78

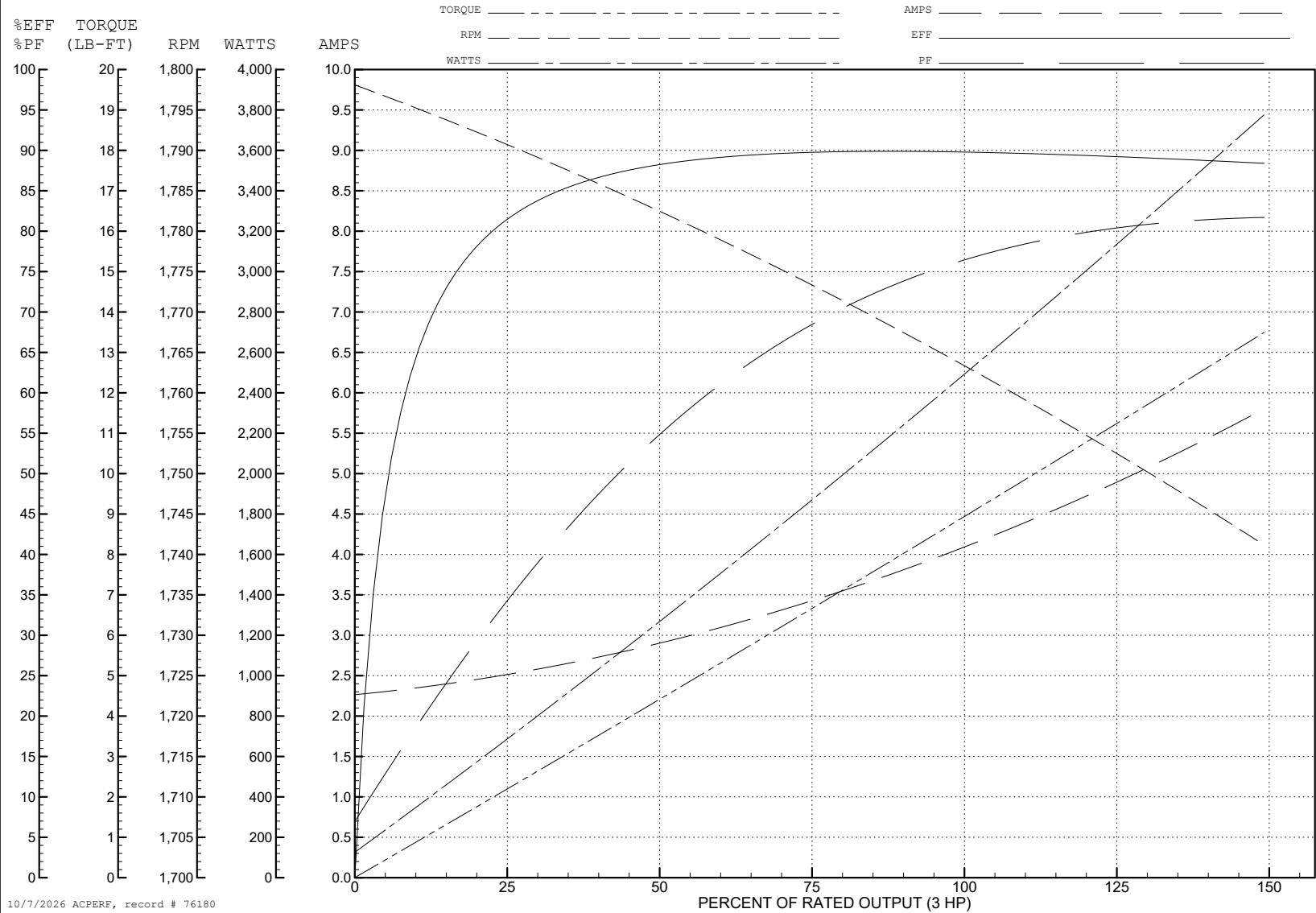
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WINDING # 36WGS266

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



AC Induction Motor Performance Data

Record # 86692

Typical performance - not guaranteed values

Winding: 36WGS266-R004			Type: 3632M		Enclosure: TEFC			
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		3//2		Full Load Torque		8.8 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		8.4/4.2//7.2/3.6		Breakdown Torque		37.6 LB-FT		
R.P.M.		1760//1460		Pull-up Torque		15.2 LB-FT		
Hz		60//50	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		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
						Locked-rotor Power Factor		42.2
						Rotor inertia		0.298 lb-ft²

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	35	55	68	75	80	82
Efficiency	81	87.7	89.6	89.8	89.6	88.1
Speed	1791	1783	1773	1764	1753	1741
Line amperes	2.47	2.85	3.43	4.09	4.89	5.78

ABB Motors and Mechanical Inc.

WINDING # 36WGS266

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1764 RPM 460 V 3632M

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

