

ABB BALDOR RELIANCE III

Customer information packet

VXM18542T-5

5HP, 1750RPM, 3PH, 60HZ, 184TC, 3642M, XPFC, F1

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	184TC
Frame Material	Steel
Frequency	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	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	UL CSA EEV
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	30
Current @ Voltage	5.300 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
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	5.3 a
Insulation Class	F
Inverter Code	Inverter Duty

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	36WGS551
Layout	36LYQ330
Eff. date	02-13-2026
CD Diagram	CD0006
Poles	04
Leads	3#16
Proprietary	False
Created date	04-16-2021

IP Rating	NONE
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3642M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.36 IN
Power Factor	78
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	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

NP0887XPSLEV												
NO.						CC	010A					
S/N						TEMP CODE		T3C				
SPEC.	36-0000-0474					INV.TYPE		PWM				
CAT.NO.	VXM18542T-5					C HP FR		60		C HP TO		90
HP	5					CT HZ FROM		30		CT HZ TO		60
VOLTS	575					VT HZ FROM		6		VT HZ TO		60
AMPS	5.3				MAG CUR		2.6					
RPM	1750				MX RPM		2700					
HZ	60	PH	3	CL	F	NOM.EFF.		89.5				
SER.F.	1.15	DES		B	SL HZ		1.67	WK2		0.39		
FRAME	184TC		RATING		40C AMB-CONT							
	NEMA MG-1 PART 5, IP54											
	1.15 SF ON SINE WAVE											

AC Induction Motor Performance Data

Record # 59631

Typical performance - not guaranteed values

Winding: 36WGS551-R020			Type: 3642M		Enclosure: TEFC		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		5	Full Load Torque		14.9 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		5.3	Breakdown Torque		52.2 LB-FT		
R.P.M.		1750	Pull-up Torque		31.6 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		35 LB-FT	
NEMA Design Code		B	KVA Code	J	Starting Current		39.3 A
Service Factor (S.F.)		1.15	No-load Current		2.6 A		
NEMA Nom. Eff.		89.5	Power Factor	78	Line-line Res. @ 25°C		3.57 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		71°C
S.F. Amps					Temp. Rise @ S.F. Load		87°C
					Locked-rotor Power Factor		40
					Rotor inertia		0.391 LB-FT2

Load Characteristics 575 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	60	72	78	83	83	81
Efficiency	84.8	89.7	90.5	89.6	88.5	86.9	88.9
Speed	1789	1776	1762	1750	1733	1714	1740
Line amperes	2.85	3.45	4.35	5.33	6.36	7.72	5.95

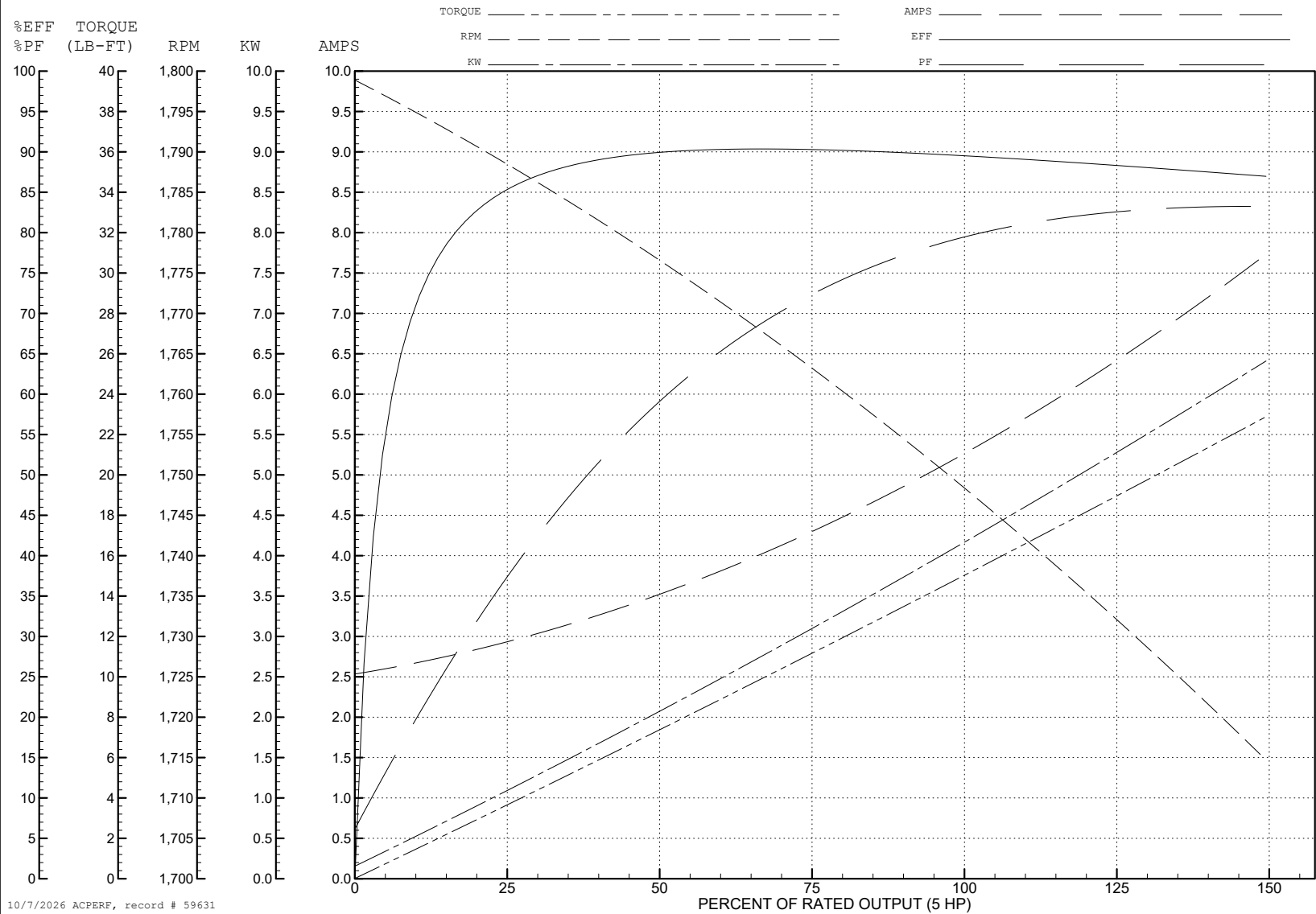
ABB Motors and Mechanical Inc.

WINDING # 36WGS551

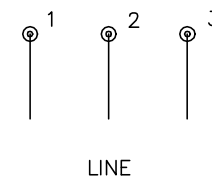
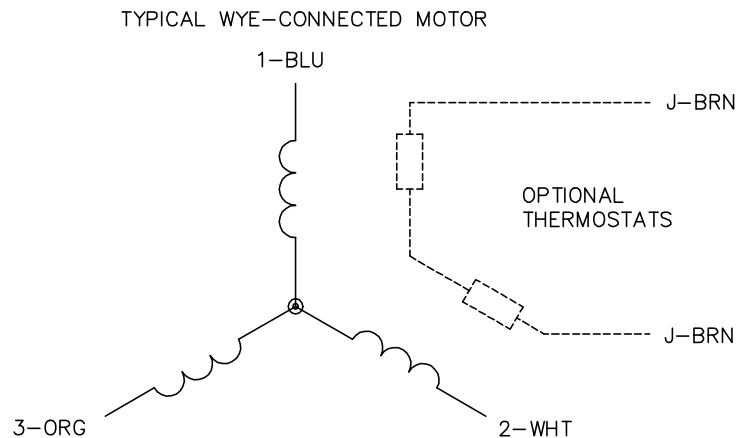
Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1750 RPM 575 V 3642M

TORQUES (LB-FT): PO=52.2 PU=31.6 LR=35 LRA=39.3



CD0006


NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10:24:49 02/19/2019

BY: ENBRIRO

MTL: —


BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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