



Customer information packet

IDVSNM3581T

1HP, 1770RPM, 3PH, 60HZ, 143TC, 0522M, TENV, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	143TC
Frame Material	Iron
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	CSA UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	3.200 A @ 230.0 V 1.600 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.6 a
Insulation Class	F

Part detail

Revision	A
Type	AC
Mech. spec.	05E534
Base	
Status	PRD/A
Elec. spec.	05WGX545
Layout	05LYE534
Eff. date	04-10-2023
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	03-11-2022

Inverter Code	Inverter Ready
KVA Code	N
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	6000 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0522M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.65 IN
Power Factor	68
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 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

NP3302L			
CAT NO	IDVSNM3581T		
SPEC.	05E534X545G2		
FRAME	143TC	HP	1 TE
VOLTS	230/460		
MAG CUR	2.32/1.16	FLA	3.2/1.6
RPM	1770	RPM MAX	6000
HZ	60	PH	3 CLASS F
SER.F.	1.00	SL HZ	0.93
NEMA-NOM-EFF	85.5	WK2	0.159
RATING	40C AMB-CONT		
DE BRG	6205	ODE BRG	6203
CC	010A	SN	

AC Induction Motor Performance Data

Record # 87237

Typical performance - not guaranteed values

Winding: 05WGX545-R006		Type: 0522M		Enclosure: TENV	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	1	Full Load Torque	3 LB-FT		
Volts	230/460	Start Configuration	direct on line		
Full Load Amps	3.2/1.6	Breakdown Torque	15.27 LB-FT		
R.P.M.	1770	Pull-up Torque	6.77 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque	9.41 LB-FT	
NEMA Design Code	B KVA Code	N	Starting Current	15.07 A	
Service Factor (S.F.)	1	No-load Current	1.16 A		
NEMA Nom. Eff.	85.5 Power Factor	68	Line-line Res. @ 25°C	16.4 Ω	
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	65°C	
			Locked-rotor Power Factor	61.4	
			Rotor inertia	0.159 lb-ft ²	

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	29	45	58	68	75	79
Efficiency	70.9	81.1	84.4	85.7	85.4	84.6
Speed	1793	1786	1780	1772	1765	1756
Line amperes	1.18	1.28	1.43	1.62	1.83	2.09

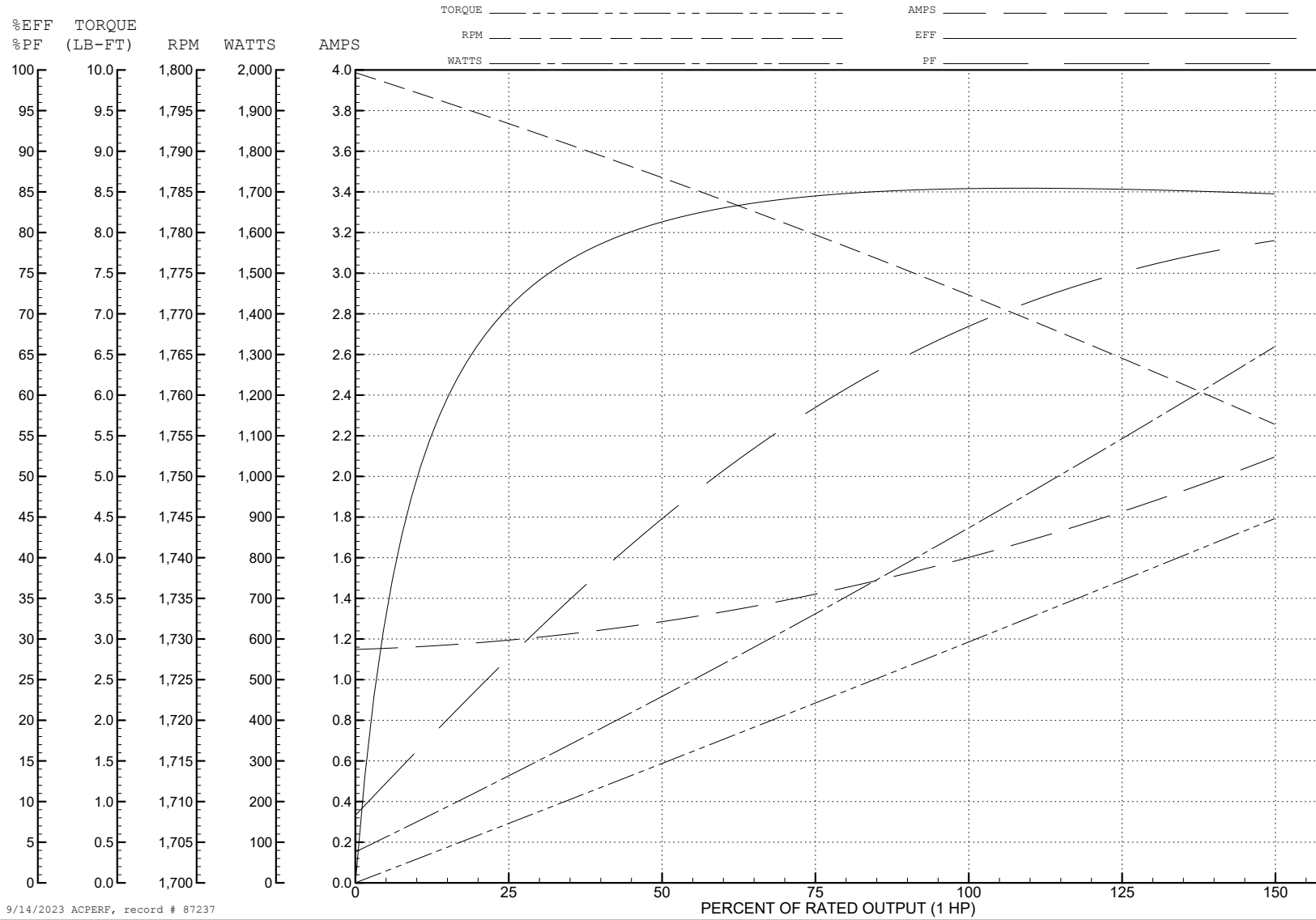
ABB Motors and Mechanical Inc.

WINDING # 05WGX545

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1770 RPM 460 V 0522M

TORQUES (LB-FT): PO=15.27 PU=6.77 LR=9.41 LRA=15.07



9/14/2023 ACPERF, record # 87237

CD0005

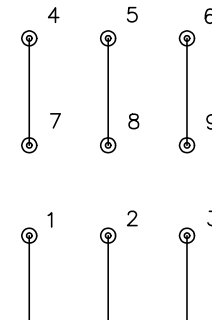


LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS