ABB BALDOR RELIANCE

Customer information packet

VECP3587T

2HP, 1760RPM, 3PH, 60HZ, 145TC, 0526M, TEFC, F1
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	145TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CCSA US
	CSA EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	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
Constant Torque Speed Range	1.5
Current @ Voltage	5.800 A @ 208.0 V
	5.600 A @ 230.0 V
	2.800 A @ 460.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	D
Type	AC
Mech. spec.	05F006
Base	
Status	PRD/A
Elec. spec.	05WGX509
Layout	05LYF006
Eff. date	10-01-2025
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	03-11-2022

Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T4
Heater Indicator	No Heater
High Voltage Full Load Amps	2.8 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0526M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.57 IN
Power Factor	76
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1760 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

NP3258								
CAT.NO.	VECP3587T							
SPEC.	05F006X509G1							
HP	2 TE							
VOLTS	230/460							
AMP	5.6/2.8							
RPM	1760							
FRAME	145TC	**HZ**	60		**PH**	3		
SER.F.	1.15	**CODE**	L	**DES**	B	**CL**	F	
RATING	40C AMB-CONT							
SN								
DE	6205	**ODE**	6205					
NEMA-NOM-EFF	86.5	**PF**	76					
G.MIN.EFF	84	**CC**	010A					
T. CODE	T4	**T=**	135					

NP3261					
SPEC.	05F006X509G1				
D.E. BRG.	25BC02XP30X				
O.D.E. BRG.	25BC02XP30X				
GREASE	POLYREX EM				
RPM MAX	2700	**MAX. KVAR**	0.62		
BLANK	SFA 6.4/3.2				
INV.TYPE	PWM				
T=	135				
C HP FR	60	**C HP TO**	90		
CT HZ FROM	1.5	**CT HZ TO**	60		
VT HZ FROM	0-	**VT HZ TO**	60		
HTR-VOLTS		**HTR-AMPS**			
HTR-WATTS		**MAX. SPACE HEATER TEMP.**			

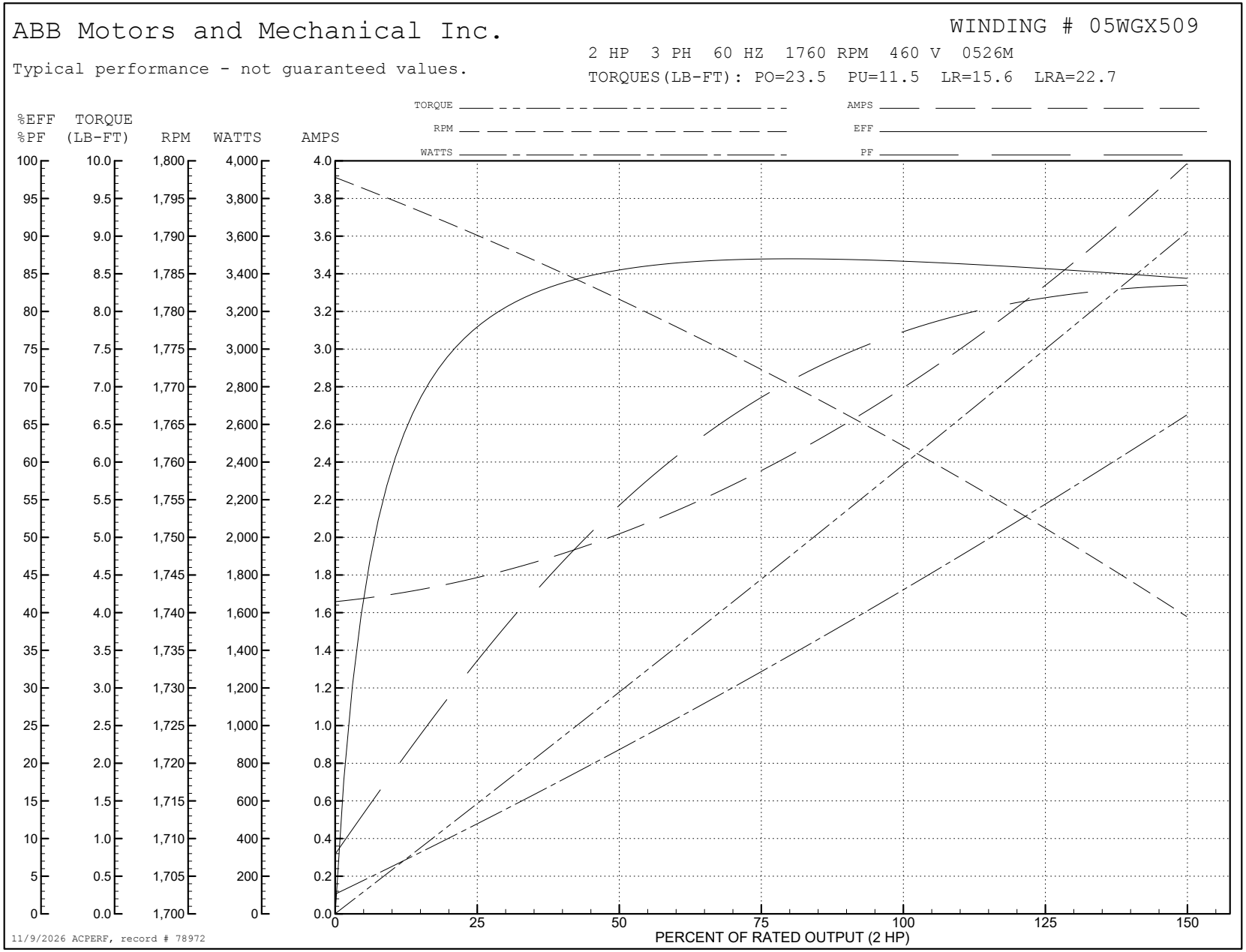
AC Induction Motor Performance Data
Record # 78972
Typical performance - not guaranteed values

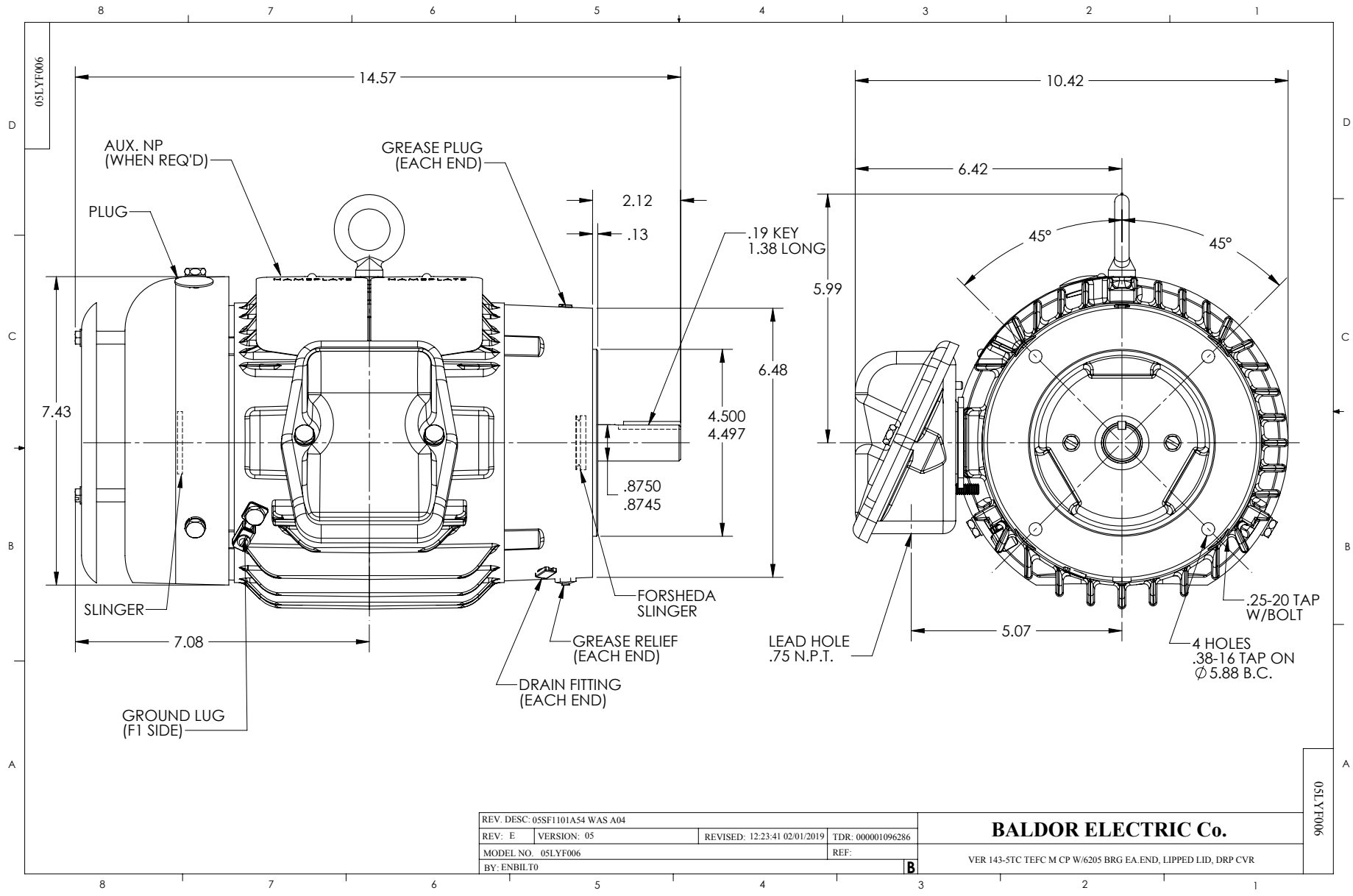
Winding: 05WGX509-R001	**Type:** 0526M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	5.976 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			5.6/2.8	**Breakdown Torque**	23.5 LB-FT
R.P.M.			1760	**Pull-up Torque**	11.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	15.6 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	22.7 A
Service Factor (S.F.)			1.15	**No-load Current**	1.69 A
NEMA Nom. Eff.	86.5	**Power Factor**	75	**Line-line Res. @ 25ºC**	9.5456 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	40°C
S.F. Amps				**Temp. Rise @ S.F. Load**	48°C
				Locked-rotor Power Factor	58.1

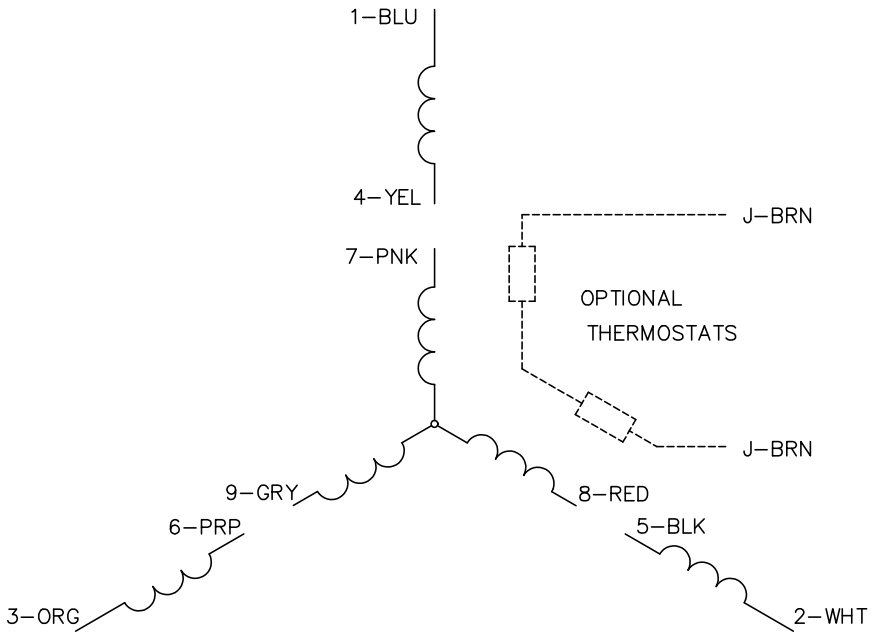
Load Characteristics 460 V, 60 Hz, 2 HP

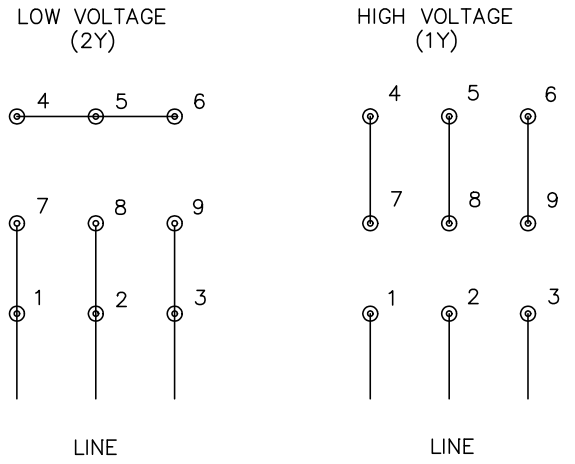
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	34	55	68	77	81	84	79
Efficiency	77.5	85.2	86.9	86.8	85.8	84.3	86.2
Speed	1789.9	1781.4	1772.2	1762.2	1751.3	1739.3	1756
Line amperes	1.75	1.99	2.37	2.83	3.36	3.96	3.15


ABB Motors and Mechanical Inc.
WINDING # 05WGX509
2 HP 3 PH 60 HZ 1760 RPM 460 V 0526M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=23.5 PU=11.5 LR=15.6 LRA=22.7
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (2 HP)
11/9/2026 ACPERF, record # 78972


05LYF006
14.57
AUX. NP
(WHEN REQ'D)
GREASE PLUG
(EACH END)
PLUG
2.12
.13
.19 KEY
1.38 LONG
7.43
6.48
4.500
4.497
.8750
.8745
SLINGER
7.08
FORSHEDA
SLINGER
GREASE RELIEF
(EACH END)
DRAIN FITTING
(EACH END)
GROUND LUG
(F1 SIDE)
10.42
6.42
45°
45°
5.99
LEAD HOLE
.75 N.P.T.
5.07
.25-20 TAP
W/BOLT
4 HOLES
.38-16 TAP ON
∅5.88 B.C.
REV. DESC: 05SF1101A54 WAS A04
REV: E
VERSION: 05
REVISED: 12:23:41 02/01/2019
TDR: 000001096286
MODEL NO. 05LYF006
REF:
BY: ENBILT0
B
BALDOR ELECTRIC Co.
VER 143-5TC TEFC M CP W/6205 BRG EA.END, LIPPED LID, DRP CVR
05LYF006

CD0005





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			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS