ABB BALDOR RELIANCE

Customer information packet

VECP3582T

1HP, 1170RPM, 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	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
	208.0 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	2
Current @ Voltage	3.600 A @ 208.0 V
	3.560 A @ 230.0 V
	1.780 A @ 460.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %

Part Detail

Revision	C
Type	AC
Mech. spec.	05F006
Base	
Status	PRD/A
Elec. spec.	05WGX907
Layout	05LYF006
Eff. date	10-01-2025
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	09-09-2022

Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T4
Heater Indicator	No Heater
High Voltage Full Load Amps	1.8 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 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	6
Overall Length	14.56 IN
Power Factor	64
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	1170 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.	VECP3582T							
SPEC.	05F006X907G1							
HP	1 TE							
VOLTS	208-230/460							
AMP	3.6-3.56/1.78							
RPM	1170							
FRAME	145TC	**HZ**	60		**PH**	3		
SER.F.	1.15	**CODE**	J	**DES**	B	**CL**	F	
RATING	40C AMB-CONT							
SN								
DE	6205	**ODE**	6205					
NEMA-NOM-EFF	82.5	**PF**	64					
G.MIN.EFF	80	**CC**	010A					
T. CODE	T4	**T=**	135					

NP3261			
SPEC.	05F006X907G1		
D.E. BRG.	25BC02XP30X		
O.D.E. BRG.	25BC02XP30X		
GREASE	POLYREX EM		
RPM MAX	1800	**MAX. KVAR**	0.66
BLANK	SFA 4-3.9/1.95		
INV.TYPE	PWM		
T=	135		
C HP FR	60	**C HP TO**	90
CT HZ FROM	2	**CT HZ TO**	60
VT HZ FROM	0-	**VT HZ TO**	60
HTR-VOLTS		**HTR-AMPS**	
HTR-WATTS		**MAX. SPACE HEATER TEMP.**	

Parts List

Part number	Description	Quantity
SA407337	SA 05F006X907G1	1.000 ea
RA398836	RA 05F006X907G1	1.000 ea
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 ea
HW3201A05	3/8-16 EYEBOLT	1.000 ea
06CB1000A02G	CONDUIT BOX, MACH GRAY	1.000 ea
RM1016	LEAD SEPARATOR GASKET - 305/306 C.P.MOTO	1.000 ea
51XW2520A12	SCREW, HEX SER SLT HD, ZN, 1/4-20 X .75	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
10XN2520S06	1/4 20X3/8 HX HD CAP S.S.	2.000 ea
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	1.000 ea
35EP1102B03G	FREP TEFC 205 BRG,GRSR,RLF,.125 NPT DRAI	1.000 ea
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
35EP1329A16G	PUEP ENCL 143-5TC 205 BRG,GRSR,RLF,NPT D	1.000 ea
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
HA3100A28	THRUBOLT 10-32 X 8.187	4.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
35FH1000A04G	FAN COVER 35FH1000 - (GRAY)	1.000 ea
10XN2520A18	1/4-20 X 1-1/8 HEX CAP SCREW.	3.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	3.000 ea
WD4100A03	DE-750 HEYCO PLUG 62MP0750 MICRO PLASTIC	1.000 ea
35FH4500A01	DRIP COVER, STAMPED X - W/PRIMED	1.000 ea
HA2001A13	35-10103 SPACER WELKER	3.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	3.000 ea
06CB1502G	LIPPED CONDUIT BOX LID CAST, GRAY EPOXY	1.000 ea

06GS1003	GASKET, KOBX LID, 1/8" THICK BLACK NEOPR	1.000 ea
10XN2520A12	1/4-20 X 3/4 HEX HEAD CAP	2.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 ea
HW4600B32SP	V-RING SLINGER 1.000 X 1.540 X .24 VITON	1.000 ea
HA1005A03SP	SLINGER, OD 1.750, ID .938, 205 BRG	1.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1025N19	WILKOFAST, 778.50, RELIANCE BLUE-GREEN 8	0.022 ga
LB1002N	LABEL,MARINE DUTY (ON ROLLS)	1.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
LB1449	DIV-2/NEC WARNING LABEL	1.000 ea
NP3258	SS CP SUPER-E DIV-2 UL CSA-C US EEV CC	1.000 ea
NP3261	SS CP SUPER-E AUX DATA INFORMATION	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
36PA1000	PKG GRP, PRINT PK1016A08	1.000 ea
PK3082	STYROFOAM CRADLE	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea

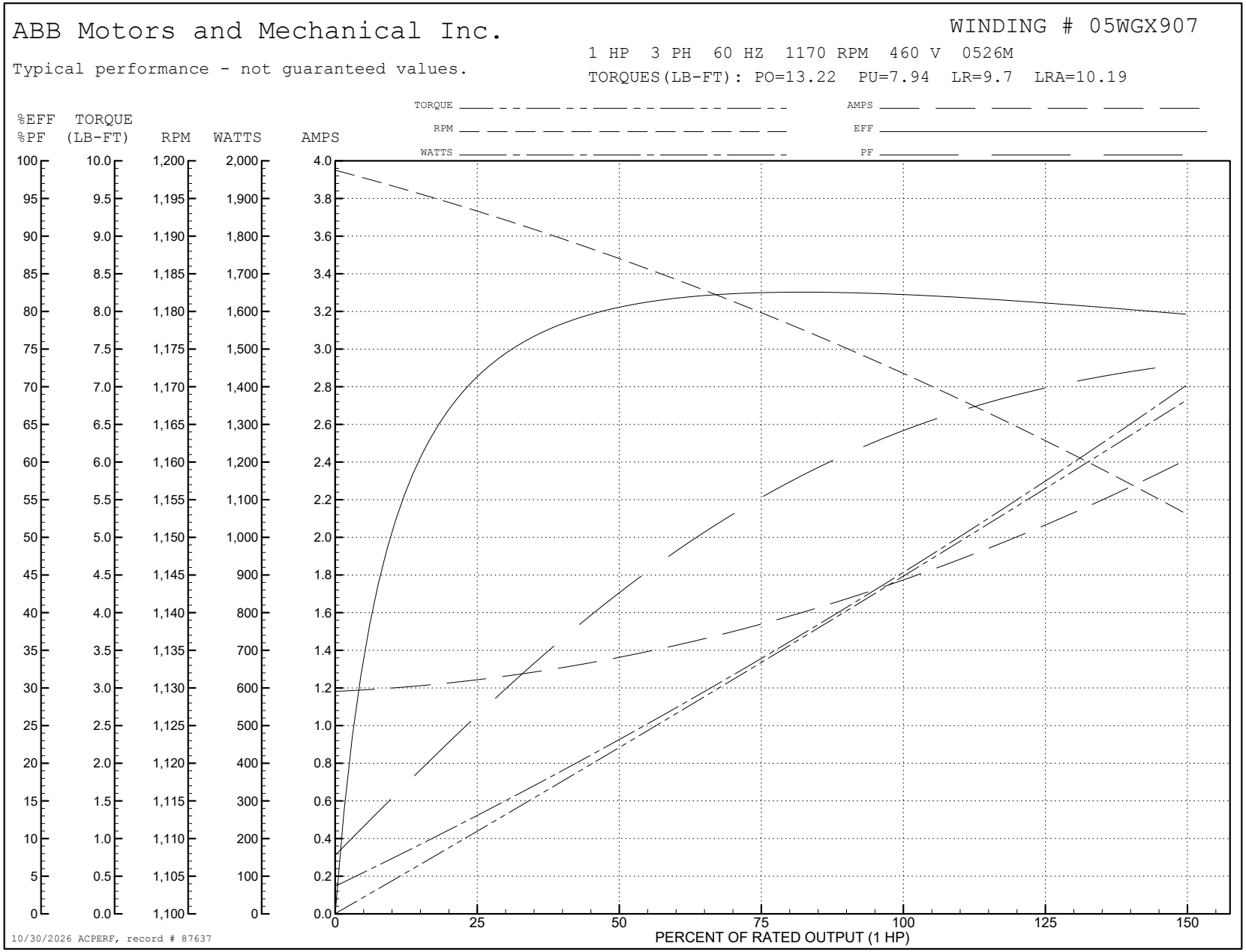
AC Induction Motor Performance Data
Record # 87637
Typical performance - not guaranteed values

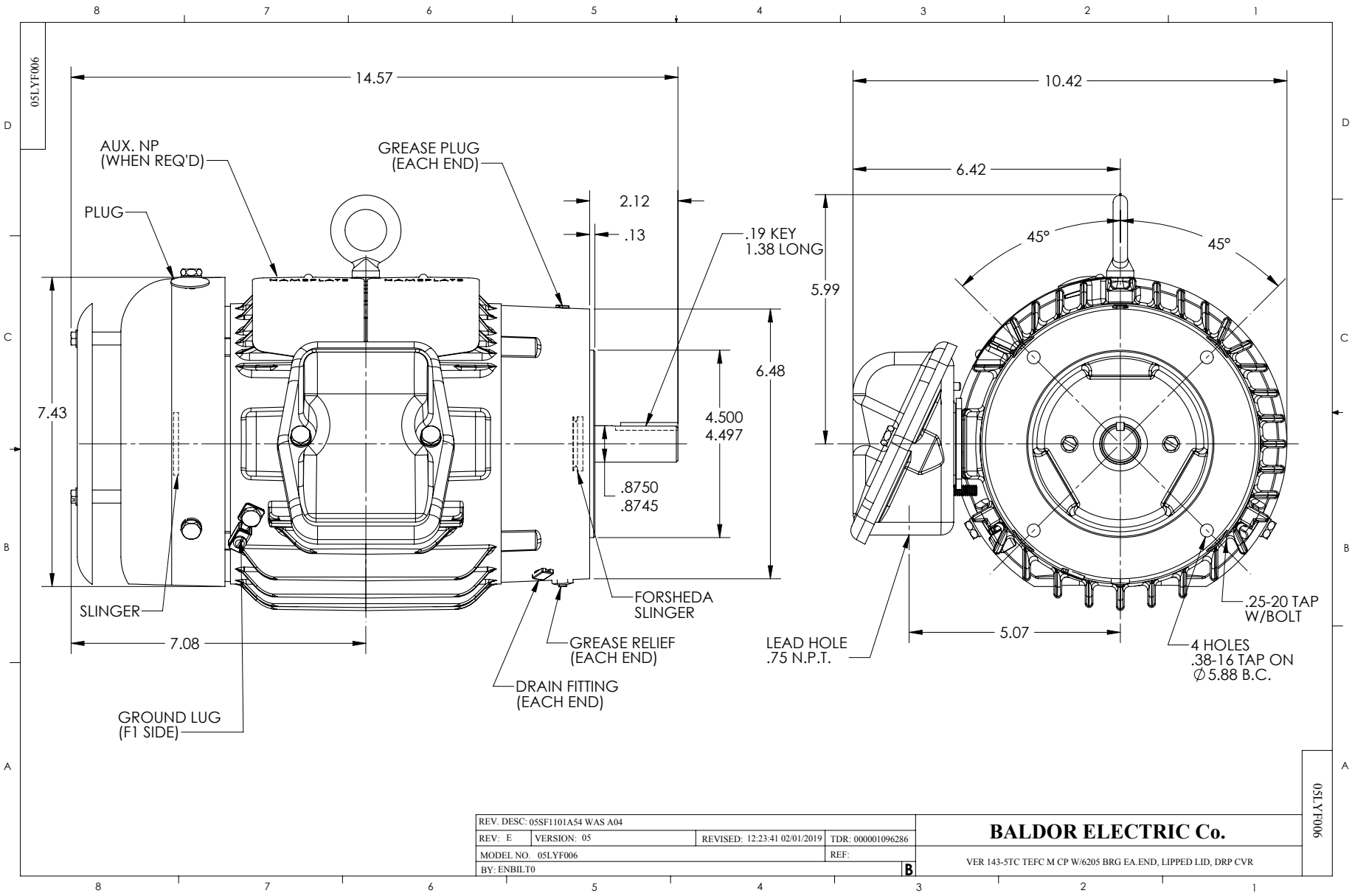
Winding: 05WGX907-R001	**Type:** 0526M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	4.47 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			3.6-3.56/1.78	**Breakdown Torque**	13.22 LB-FT
R.P.M.			1170	**Pull-up Torque**	7.94 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	9.7 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	10.19 A
Service Factor (S.F.)			1.15	**No-load Current**	1.19 A
NEMA Nom. Eff.	82.5	**Power Factor**	64	**Line-line Res. @ 25ºC**	19.9 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	48°C
S.F. Amps			4-3.9/1.95	**Temp. Rise @ S.F. Load**	57°C
				Locked-rotor Power Factor	50.1
				Rotor inertia	0.189 lb-ft²

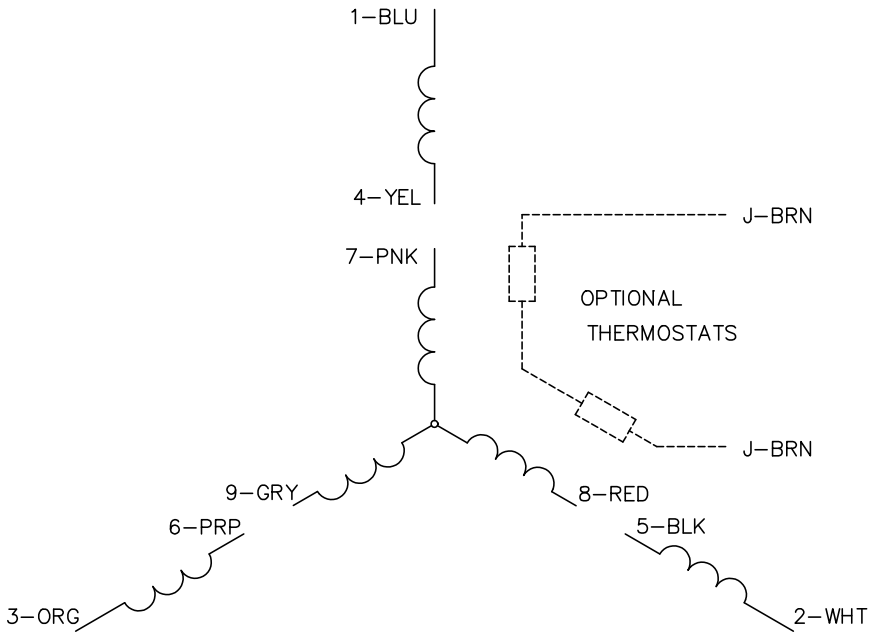
Load Characteristics 460 V, 60 Hz, 1 HP

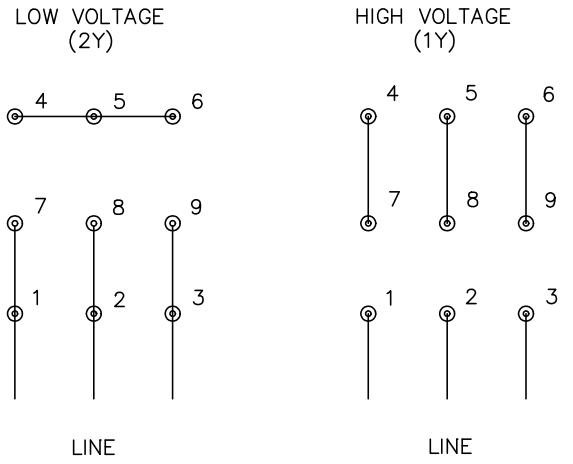
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	27	43	55	64	70	73	68
Efficiency	70.2	80.1	82.3	82.5	81.5	79.4	81.9
Speed	1193	1187	1180	1172	1163	1153	1167
Line amperes	1.23	1.36	1.54	1.78	2.06	2.41	1.95


ABB Motors and Mechanical Inc.
WINDING # 05WGX907
Typical performance - not guaranteed values.
1 HP 3 PH 60 HZ 1170 RPM 460 V 0526M
TORQUES(LB-FT): PO=13.22 PU=7.94 LR=9.7 LRA=10.19
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1 HP)
10/30/2026 ACPERF, record # 87637


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
5.07
LEAD HOLE
.75 N.P.T.
.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