

ABB BALDOR RELIANCE III

Customer information packet

VECP3584T

1.5HP, 1755RPM, 3PH, 60HZ, 145TC, 0530M, TEFC

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	145TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CL I GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	1.3
Current @ Voltage	4.300 A @ 208.0 V 4.100 A @ 230.0 V 2.050 A @ 460.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %

Part Detail

Revision	D
Type	AC
Mech. spec.	05F006
Base	
Status	PRD/A
Elec. spec.	05WGX902
Layout	05LYF006
Eff. date	10-01-2025
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	07-21-2022

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	2.1 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
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	0530M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.56 IN
Power Factor	83
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	1755 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.	VECP3584T								
SPEC.	05F006X902G2								
HP	1.5 TE								
VOLTS	208-230/460								
AMP	4.6-4.4/2.2								
RPM	1760								
FRAME	145TC	HZ	60		PH		3		
SER.F.	1.15	CODE	M	DES	B	CL		F	
RATING	40C AMB-CONT								
SN									
DE	6205	ODE		6205					
NEMA-NOM-EFF	86.5	PF	72						
G.MIN.EFF	84	CC	010A						
T. CODE	T4	T=	135						

NP3261			
SPEC.	05F006X902G2		
D.E. BRG.	25BC02XP30X		
O.D.E. BRG.	25BC02XP30X		
GREASE	POLYREX EM		
RPM MAX	2700	MAX. KVAR	
BLANK	SFA 4.8-4.6/2.3		
INV.TYPE	PWM		
T=	135		
C HP FR	60	C HP TO	90
CT HZ FROM	1.3	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 # 102445

Typical performance - not guaranteed values

Winding: 05WGX902-R001			Type: 0530M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1.5	Full Load Torque		4.496 LB-FT	
Volts		208-230/460	Start Configuration		direct on line	
Full Load Amps		4.6-4.4/2.2	Breakdown Torque		21.2 LB-FT	
R.P.M.		1760	Pull-up Torque		14.4 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		16 LB-FT
NEMA Design Code		B	KVA Code	Starting Current		19.7 A
Service Factor (S.F.)		1.15	No-load Current		1.41 A	
NEMA Nom. Eff.		86.5	Power Factor	Line-line Res. @ 25°C		10.007 Ω
Rating - Duty		40C	AMB-CONT	Temp. Rise @ Rated Load		36°C
S.F. Amps		5.2-5/2.5	Temp. Rise @ S.F. Load		42°C	
			Locked-rotor Power Factor		59.9	
			Rotor inertia		0.217 lb-ft²	

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	51	64	72	78	81	76
Efficiency	76.4	84.6	86.9	87.3	86.8	85.8	87
Speed	1789.3	1779.7	1769.5	1758.8	1747.1	1734.7	1752
Line amperes	1.47	1.65	1.91	2.23	2.6	3.01	2.45

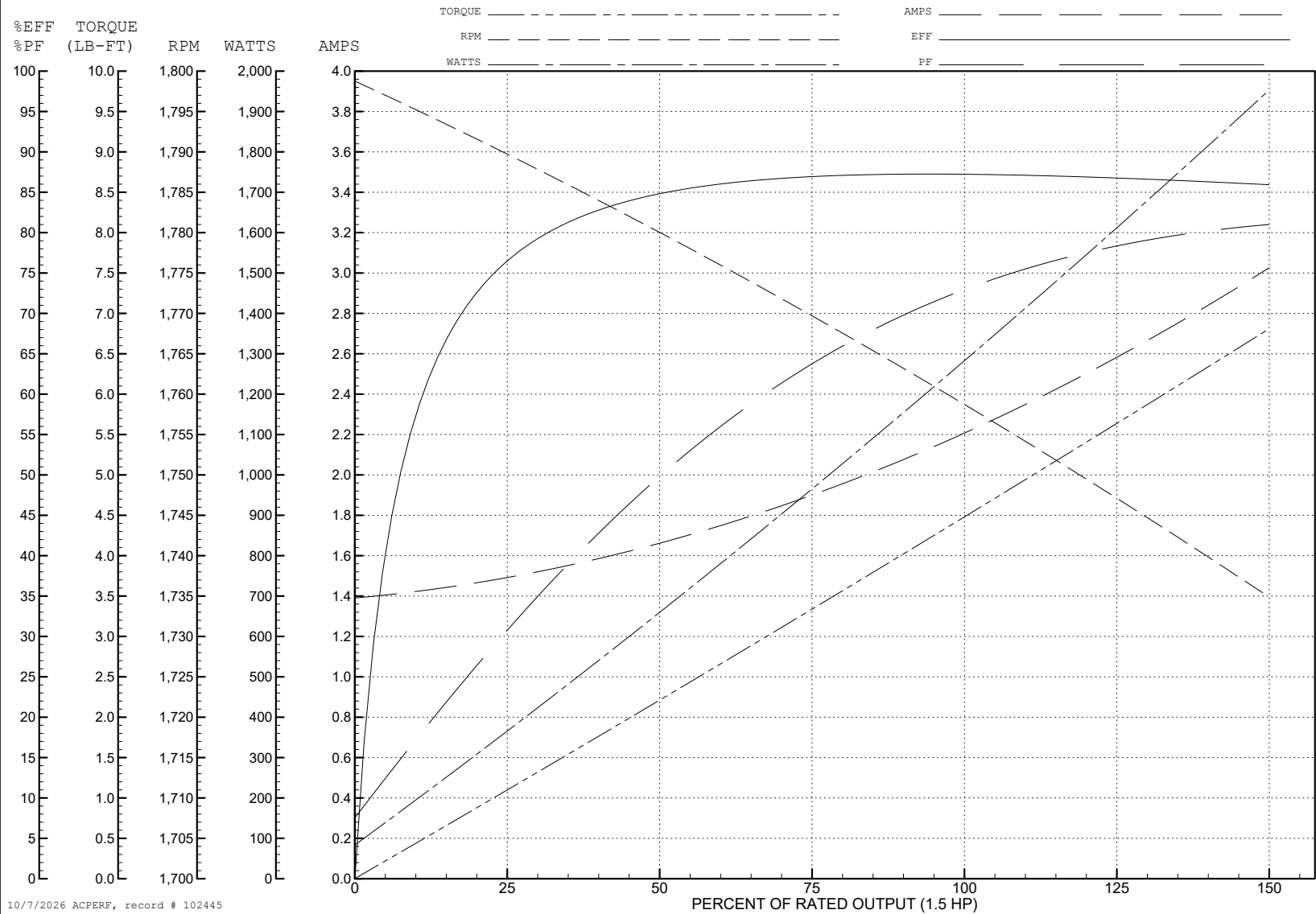
ABB Motors and Mechanical Inc.

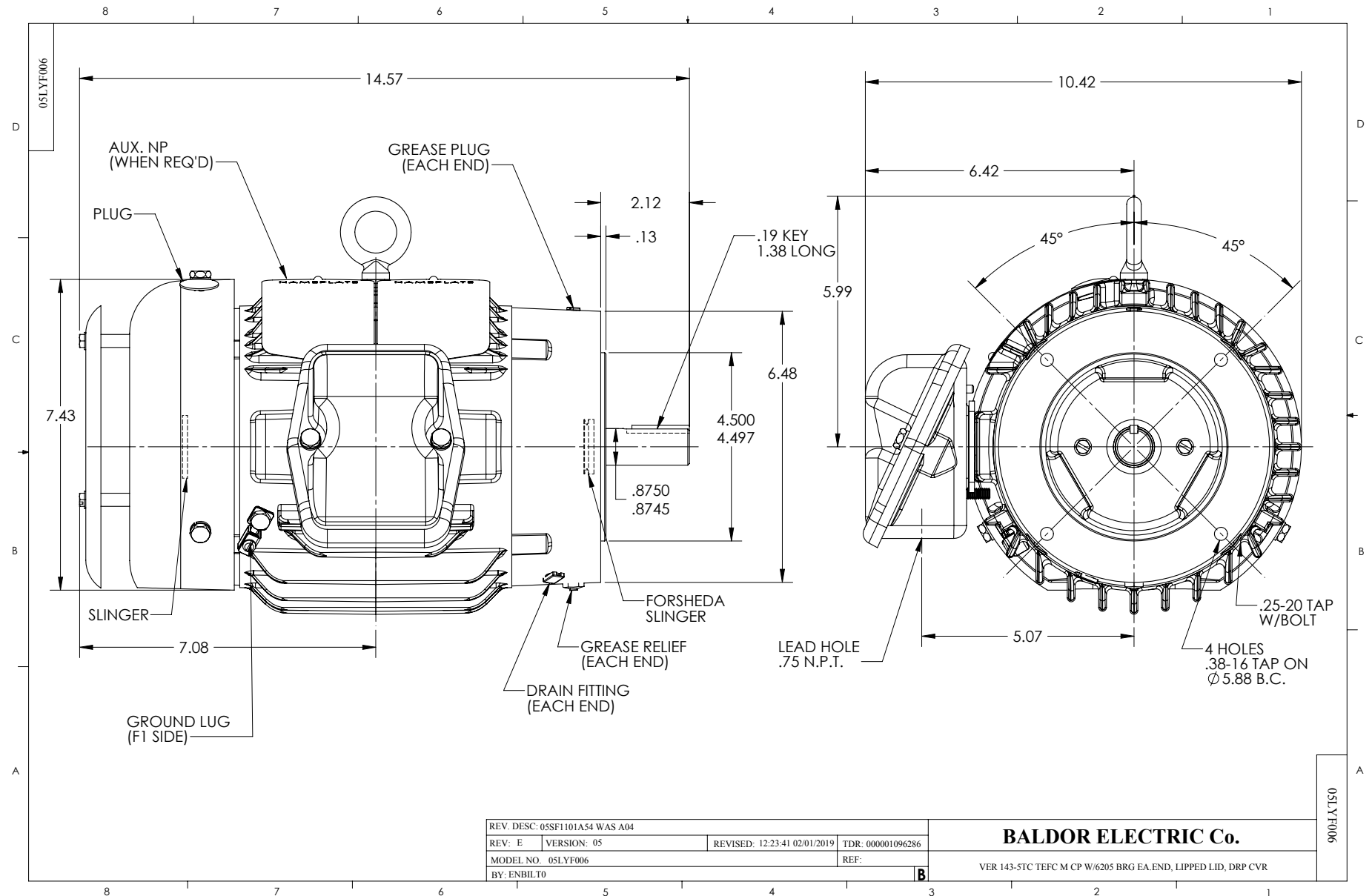
WINDING # 05WGX902

Typical performance - not guaranteed values.

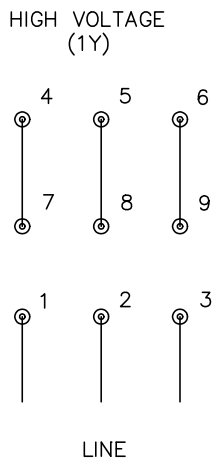
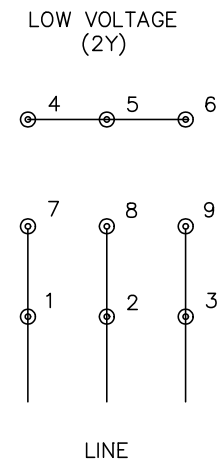
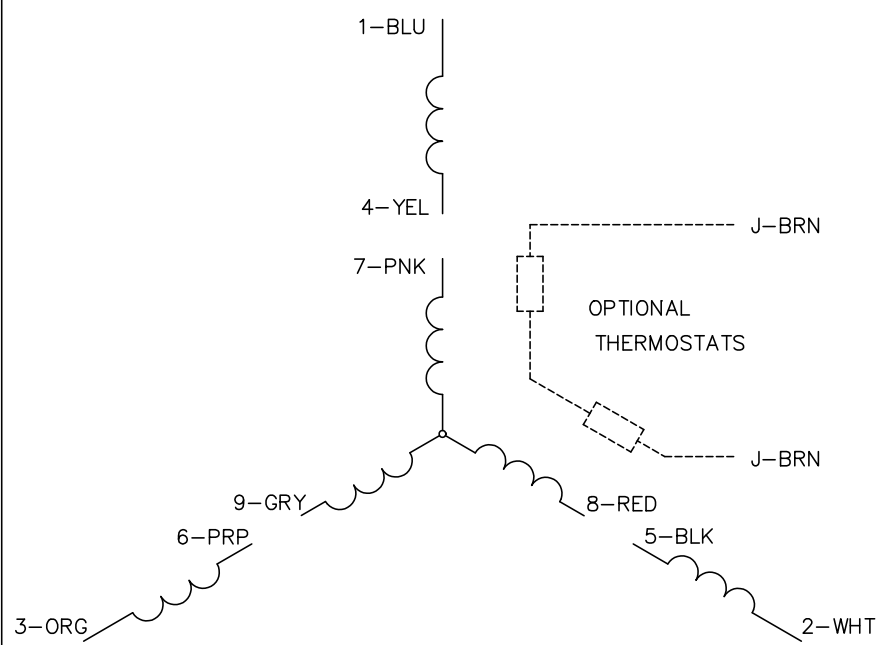
1.5 HP 3 PH 60 HZ 1760 RPM 460 V 0530M

TORQUES (LB-FT): PO=21.2 PU=14.4 LR=16 LRA=19.7





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.

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

CD0005