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Product Information Packet

VECP3580-4

1HP,3450RPM,3PH,60HZ,56C,0516M,TEFC,F1,N

Part Detail

Revision:	P	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Elec. Spec:**	05WGW234	**CD Diagram:**	CD0006	**Mfg Plant:**	
Mech. Spec:	05F005	**Layout:**	05LYF005	**Poles:**	02	**Created Date:**	02-20-2011
Base:	N	**Eff. Date:**	10-23-2017	**Leads:**	3#18		

Specs

Catalog Number:	VECP3580-4	**Inverter Code:**	Inverter Duty
Enclosure:	TEFC	**KVA Code:**	L
Frame:	56C	**Lifting Lugs:**	No Lifting Lugs
Frame Material:	Iron	**Locked Bearing Indicator:**	Locked Bearing
Output @ Frequency:	1.000 HP @ 60 HZ	**Motor Lead Quantity/Wire Size:**	3 @ 18 AWG
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	**Motor Lead Exit:**	Ko Box
Voltage @ Frequency:	460.0 V @ 60 HZ	**Motor Lead Termination:**	Flying Leads
XP Class and Group:	None	**Motor Type:**	0516M
XP Division:	Division II	**Mounting Arrangement:**	F1
Agency Approvals:	CCSA US	**Power Factor:**	82
	CSA EEV	**Product Family:**	Chemical Processing (Not DC)
	UR	**Pulley End Bearing Type:**	Ball
Auxillary Box:	No Auxillary Box	**Pulley Face Code:**	C-Face
Auxillary Box Lead Termination:	None	**Pulley Shaft Indicator:**	Standard
Base Indicator:	No Mounting	**Rodent Screen:**	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	**RoHS Status:**	ROHS COMPLIANT
Blower:	None	**Shaft Extension Location:**	Pulley End
Constant Torque Speed Range:	6	**Shaft Ground Indicator:**	No Shaft Grounding

Current @ Voltage:	1.400 A @ 460.0 V
Design Code:	B
Drip Cover:	Drip Cover
Duty Rating:	CONT
Electrically Isolated Bearing:	Not Electrically Isolated
Feedback Device:	NO FEEDBACK
Front Face Code:	Standard
Front Shaft Indicator:	None
Heater Indicator:	No Heater
Insulation Class:	F

Shaft Rotation:	Reversible
Shaft Slinger Indicator:	Shaft Slinger
Speed Code:	Single Speed
Motor Standards:	NEMA
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
XP Temp Code:	T4

Nameplate NP3258E

CAT.NO.	VECP3580-4						
SPEC.	05F005W234G1						
HP	1 TE						
VOLTS	460						
AMP	1.4						
RPM	3450						
FRAME	56C	**HZ**	60			**PH**	3
SER.F.	1.25	**CODE**	L	**DES**	B	**CL**	F
RATING	40C AMB-CONT						
SN							
DE	6205	**ODE**	6205				
NEMA-NOM-EFF	84	**PF**	82				
G.MIN.EFF	81.5	**CC**	010A				
T. CODE	T4	**T=**	135				

Nameplate NP3261E

SPEC.	05F005W234G1		
D.E. BRG.	25BC02XP30X		
O.D.E. BRG.	25BC02XP30X		
GREASE	POLYREX EM		
RPM MAX	5400	MAX. KVAR	0.19
BLANK	SFA 1.6		
INV.TYPE	PWM		
T=	135		
C HP FR	60	C HP TO	90
CT HZ FROM	6	CT HZ TO	60
VT HZ FROM	3	VT HZ TO	60
HTR-VOLTS		HTR-AMPS	
HTR-WATTS		MAX. SPACE HEATER TEMP.	

AC Induction Motor Performance Data

Record # 47145 - Typical performance - not guaranteed values

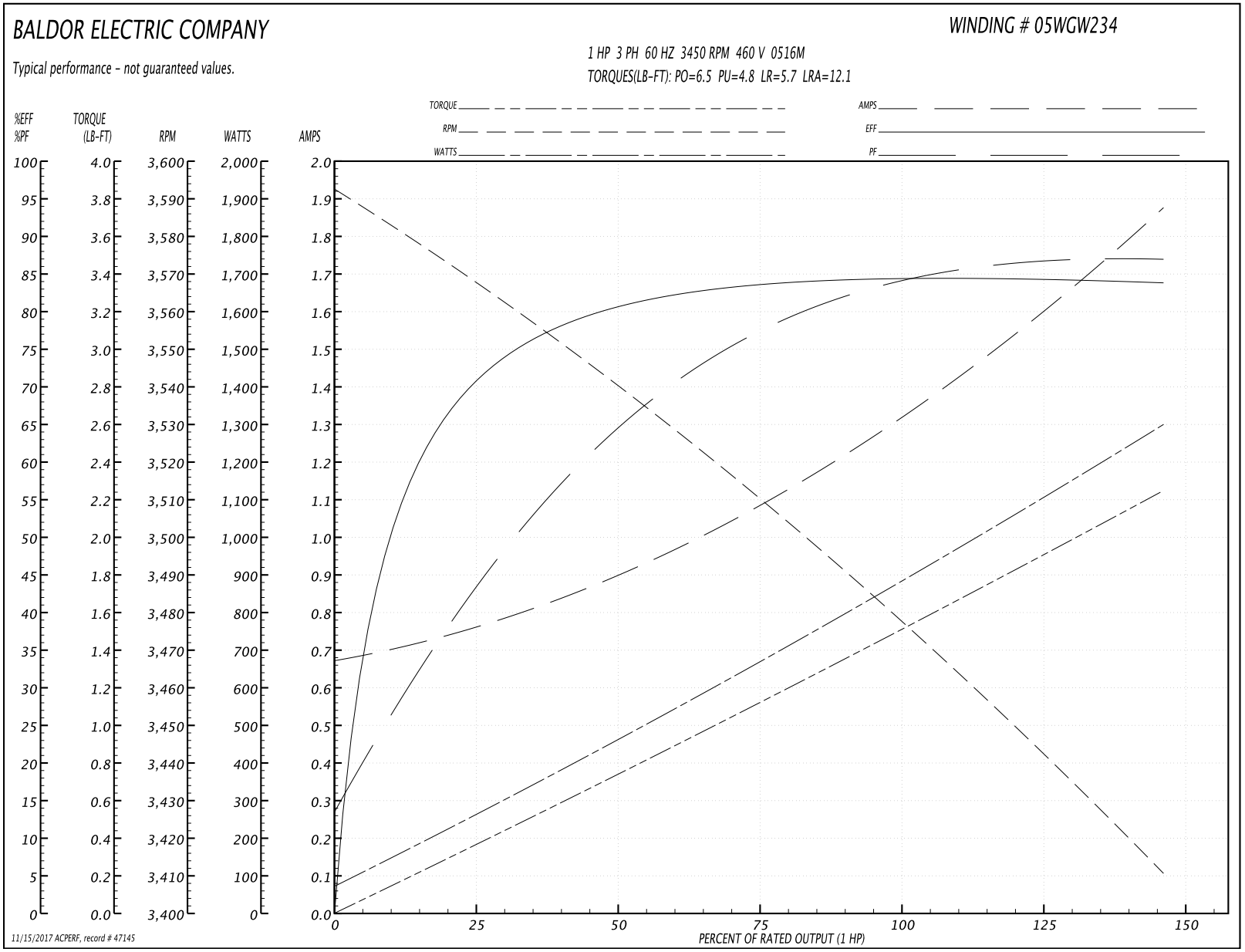
Winding: 05WGW234-R019	**Type:** 0516M	**Enclosure:** TEFC

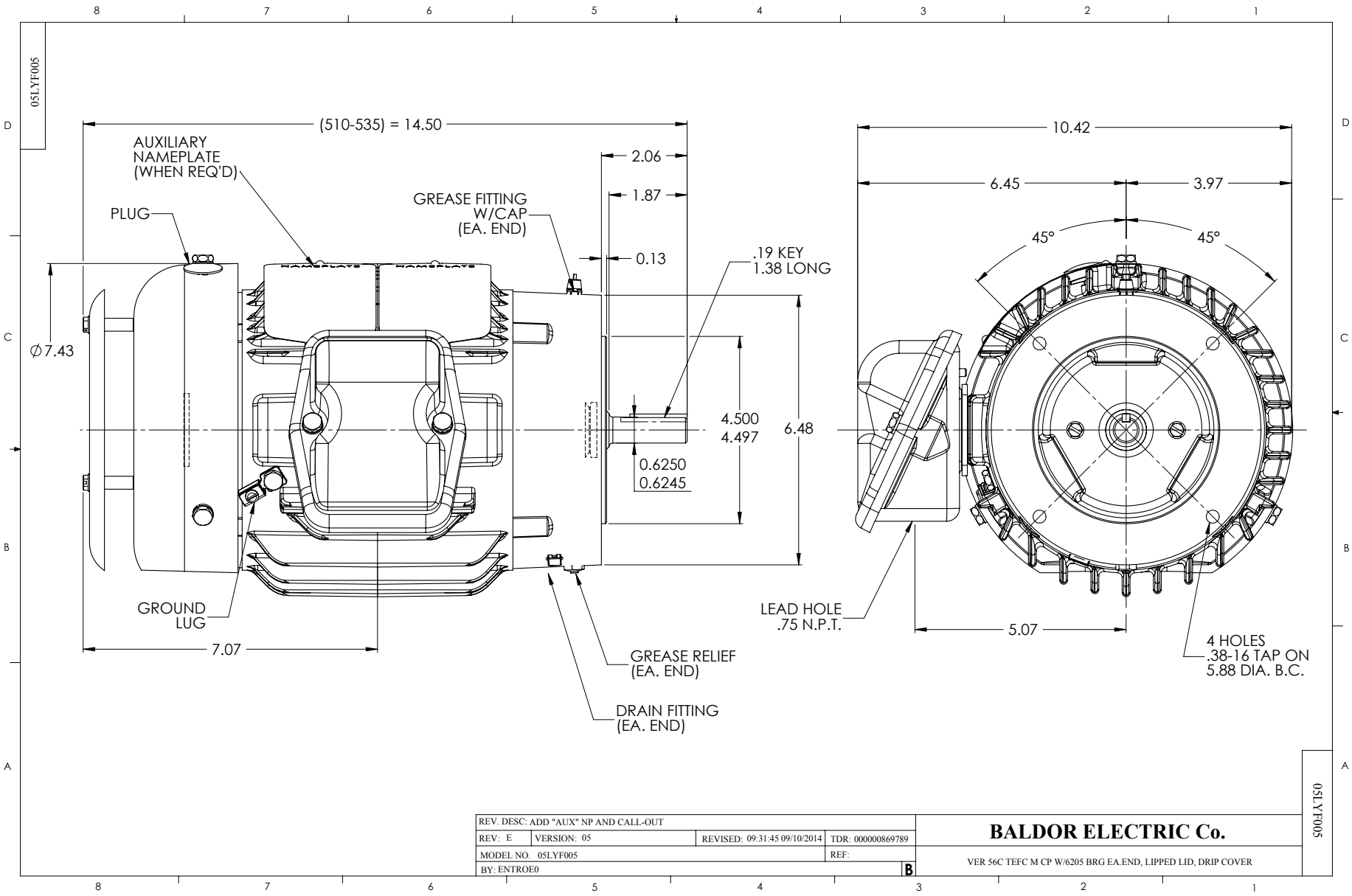
Nameplate Data				460 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	1			Full Load Torque	1.5 LB-FT
Volts	460			Start Configuration	direct on line
Full Load Amps	1.4			Breakdown Torque	6.5 LB-FT
R.P.M.	3450			Pull-up Torque	4.8 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	5.7 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	12.1 A
Service Factor (S.F.)	1.25			No-load Current	0.68 A
NEMA Nom. Eff.	84	Power Factor	82	Line-line Res. @ 25ºC	15.1 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	32°C
S.F. Amps	1.6			Temp. Rise @ S.F. Load	40°C
				Rotor inertia	0.0442 LB-FT2

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	44	65	77	84	87	89	87
Efficiency	70.5	80.5	83.6	84.6	84.4	83.7	84.4
Speed	3567	3539	3510	3479	3446	3410	3446
Line amperes	0.75	0.9	1.09	1.33	1.56	1.88	1.56

Performance Graph at 460V, 60Hz, 1.0HP Typical performance - Not guaranteed values





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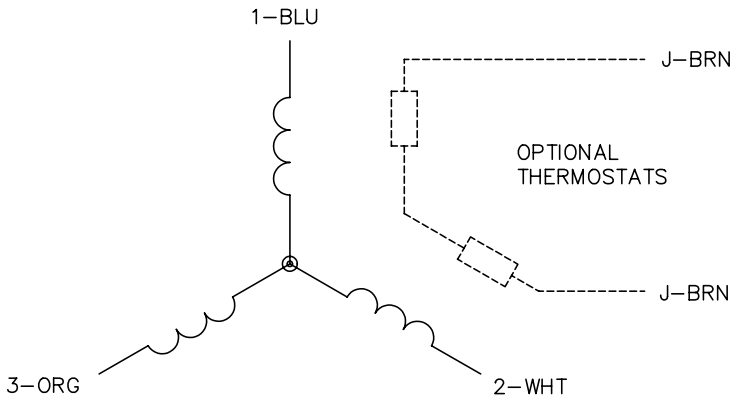
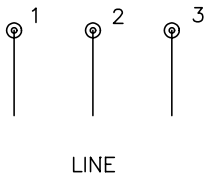
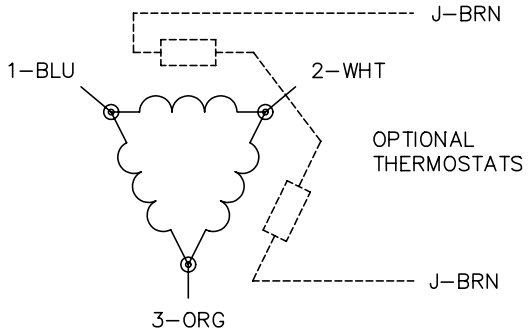
TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 01/21/99 4:02	TDR: 0171435
9000CD		FILE: AAA00005141	MDL: –
		MTL: –	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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