BALDOR • RELIANCE

Product Information Packet

VECP2334T-4

20HP,1770RPM,3PH,60HZ,256TC,0960M,TEFC,F

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Part Detail

Revision:	A	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Elec. Spec:**	09WGT506	**CD Diagram:**	CD0006	**Mfg Plant:**	
Mech. Spec:	09H181	**Layout:**	09LYH181	**Poles:**	04	**Created Date:**	11-27-2017
Base:	N	**Eff. Date:**	02-27-2018	**Leads:**	3#10		

Specs

Catalog Number:	VECP2334T-4	**Inverter Code:**	Inverter Duty
Enclosure:	TEFC	**KVA Code:**	J
Frame:	256TC	**Lifting Lugs:**	Standard Lifting Lugs
Frame Material:	Iron	**Locked Bearing Indicator:**	Locked Bearing
Output @ Frequency:	20.000 HP @ 60 HZ	**Motor Lead Quantity/Wire Size:**	3 @ 10 AWG
Synchronous Speed @ Frequency:	1800 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:**	0960M
XP Division:	Not Applicable	**Mounting Arrangement:**	F1
Agency Approvals:	UR	**Power Factor:**	83
	CSA EEV	**Product Family:**	Super-E Chemical Processing
	CSA	**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)	**Shaft Extension Location:**	Pulley End
Blower:	None	**Shaft Ground Indicator:**	No Shaft Grounding
Constant Torque Speed Range:	1.0	**Shaft Rotation:**	Reversible

Current @ Voltage:	24.000 A @ 460.0 V	**Shaft Slinger Indicator:**	Shaft Slinger
Design Code:	A	**Speed Code:**	Single Speed
Drip Cover:	Drip Cover	**Motor Standards:**	NEMA
Duty Rating:	CONT	**Starting Method:**	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	**Thermal Device - Bearing:**	NONE (OLD)
Feedback Device:	NO FEEDBACK	**Thermal Device - Winding:**	None
Front Face Code:	Standard	**Vibration Sensor Indicator:**	No Vibration Sensor
Front Shaft Indicator:	None	**Winding Thermal 1:**	None
Heater Indicator:	No Heater	**Winding Thermal 2:**	None
Insulation Class:	F	**XP Temp Code:**	T3C

Nameplate NP3241

CAT.NO.	VECP2334T-4	**P/N**		**ENCLOSURE**	TEFC				
SPEC.	09H181T506G1	**CC**	010A	**FRAME**	256TC	**S/N**			
HP	20	**CLASS**	F	**HZ**	60	**DES**	A		
RPM	1770	**RPM MAX**	2700	**PH**	3	**KVA-CODE**	J		
VOLT	460	**MOTOR WEIGHT**	322						
AMP	24	**SER.F.**	1.15	**PF**	83	**ODE BRG**	6309	**DE BRG**	6309
RATING	40C AMB-CONT	**NEMA-NOM-EFF**	93	**GREASE**	POLYREX EM				
				INV.TYPE	PWM				
TEMP CODE	T3C	**INVERTER-TEMP-CODE**	180						
TEMP =	160	**C HP FR**	60	**C HP TO**	90				
CT HZ FROM	1.0	**CT HZ TO**	60						
HTR-VOLTS		**HTR-AMPS**		**HTR-WATTS**		**MAX. SPACE HEATER TEMP.**		**VT HZ FROM**	O	**VT HZ TO**	60

Parts List

Part Number	Description	Quantity
SA348232	SA 09H181T506G1	1.000 EA
RA336784	RA 09H181T506G1	1.000 EA
09FN3001D01SP	EXTERNAL FAN, PLASTIC	1.000 EA
09CB1002A12P	KOBX W/1.25 NPT LEAD HOLE & 2.38 MTG HOL	1.000 EA
09GS1010	GASKET, DWG, LEADWIRE SEPERATOR	1.000 EA
10XN2520K12	1/4-20 X.75 GRD 5	4.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA
WD1000B17	T&B CX35TN TERMINAL	1.000 EA
10XN2520K08	1/4-20 X .50 GRADE #5, STL, ZINC PLATE	1.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	1.000 EA
HA3400A39	STUD- 3/8-16 X 6.44 OAL HEX	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
HA4017A08	.125X3.50 GREASER EXTEN.	1.000 EA
HA4017A02	.125X2.50 GREASER EXTENS.F/S	1.000 EA
HW4019A01	PIPE COUPLING 1/8 NPT,STEEL,ZINC COATING	1.000 EA
HW5100A11	W3917-042 WVY WSHR (WB)	1.000 EA
10XN2520K28	1/4-20 X 1.75" HX HD SCRWGRADE 5, ZINC P	2.000 EA
09EP1300A12P	ENDPLATE, MACH EPOXY PRIMER	1.000 EA
10XN3816K24	3/8-16 X 1.50 HEX HD CAP SCREW, GRADE 5	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
10XN2520K36	1/4-20 X 2.25" HX HD SCRWGRADE 5, ZINC P	4.000 EA
09FH1000A03P	FAN HOUSING, MACH W/EPOXY PRIMER	1.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
XY3816A12	3/8-16 FINISHED NUT	4.000 EA

Parts List (continued)

Part Number	Description	Quantity
09FH1500A01P	DRIP COVER, MACH W/EPOXY PRIMER	1.000 EA
10XN2520K26	1/4-20X 1 5/8 HEX HD, GRADE 5	4.000 EA
HW4600B44	V-RING SLINGER 1.500 X 1.810 X .28 VITON	1.000 EA
HW4600B67	V-RING SLINGER 1.770 X 2.170 X .28 VITON	1.000 EA
12CB1503P	CONDUIT BOX LID, CAST W/EPOXY PRIMER	1.000 EA
12GS1002	GASKET, CONDUIT BOX LID, NEOP	1.000 EA
10XN3118K16	5/16-18 X 1' GRADE #5, STL, ZINC PLATE	2.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	2.000 EA
HW2501G25	KEY, 3/8 SQ X 2.875	1.000 EA
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.031 QT
MJ5001A14	DYNAPRO SEALANT, CP MTR VC#2508050 (603	0.023 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
PK6014	STEEL STRAP FOR 309-312 BASELESS MOTORS	3.000 EA
19XW3118A08	.31-18 X .50 HEX WASHER HEAD TAPTITE II	3.000 EA
09EP1118A05GP6	FREP MACH, 309 BRG. EPOXY PRIMER	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HW4500A21	1618BALEMITE FITTING 825 UNIVERSAL	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.080 LB
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA

HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 EA
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 EA
MG1025N19	WILKOFAST, 778.50, RELIANCE BLUE-GREEN	0.050 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
LB1002N	LABEL,MARINE DUTY (ON ROLLS)	1.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0006	CONNECTION LABEL	1.000 EA
NP3241	SS SUPER-E INV UL CSA-EEV PREM CC	1.000 EA
40PA1024	PKGP WOOD BASE, RISER SIDE LIFT GRUNDFOS	1.000 EA
LB1449	DIV-2/NEC WARNING LABEL	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 5/18	1.000 EA

AC Induction Motor Performance Data

Record # 72646 - Typical performance - not guaranteed values

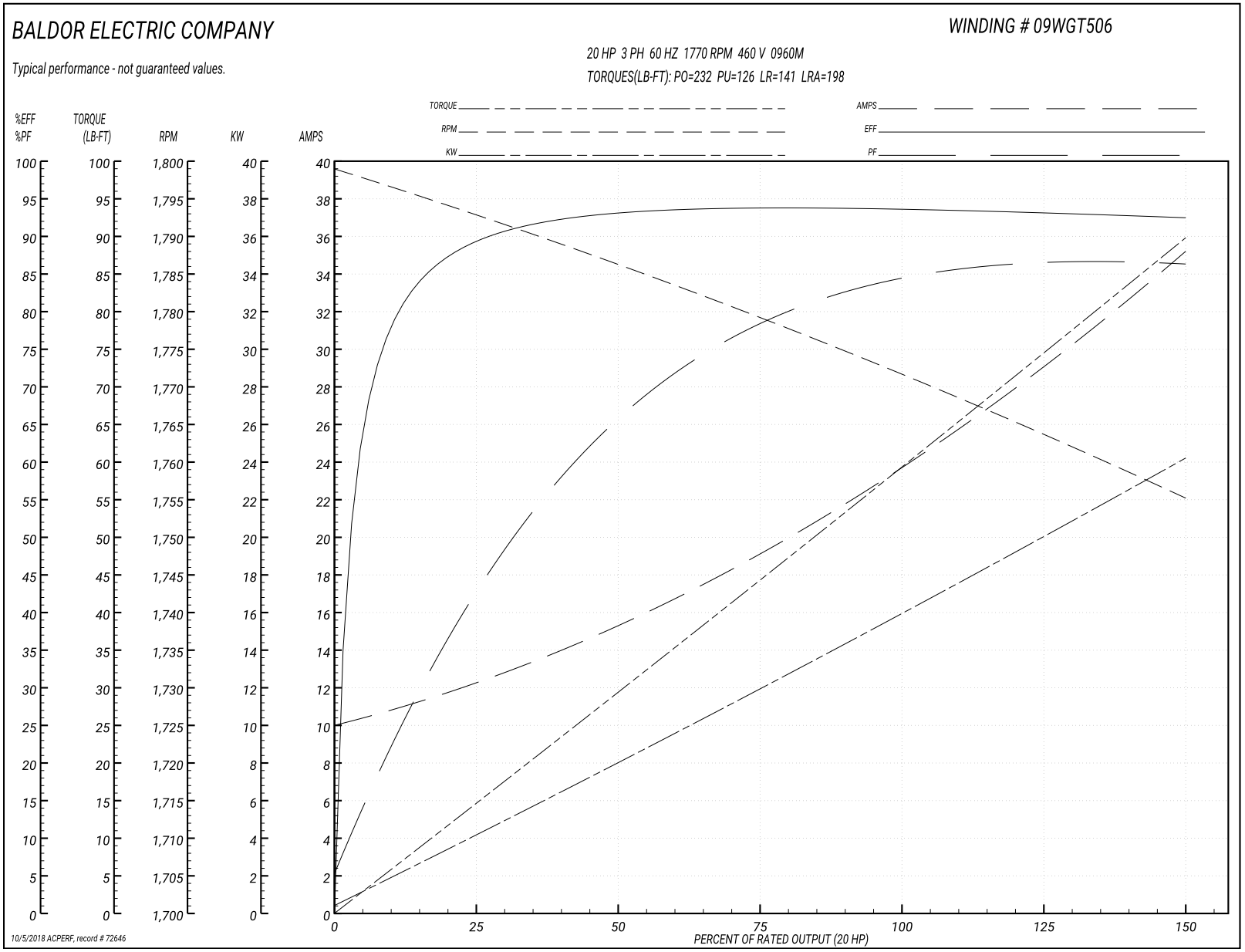
Winding: 09WGT506-R002	**Type:** 0960M	**Enclosure:** TEFC

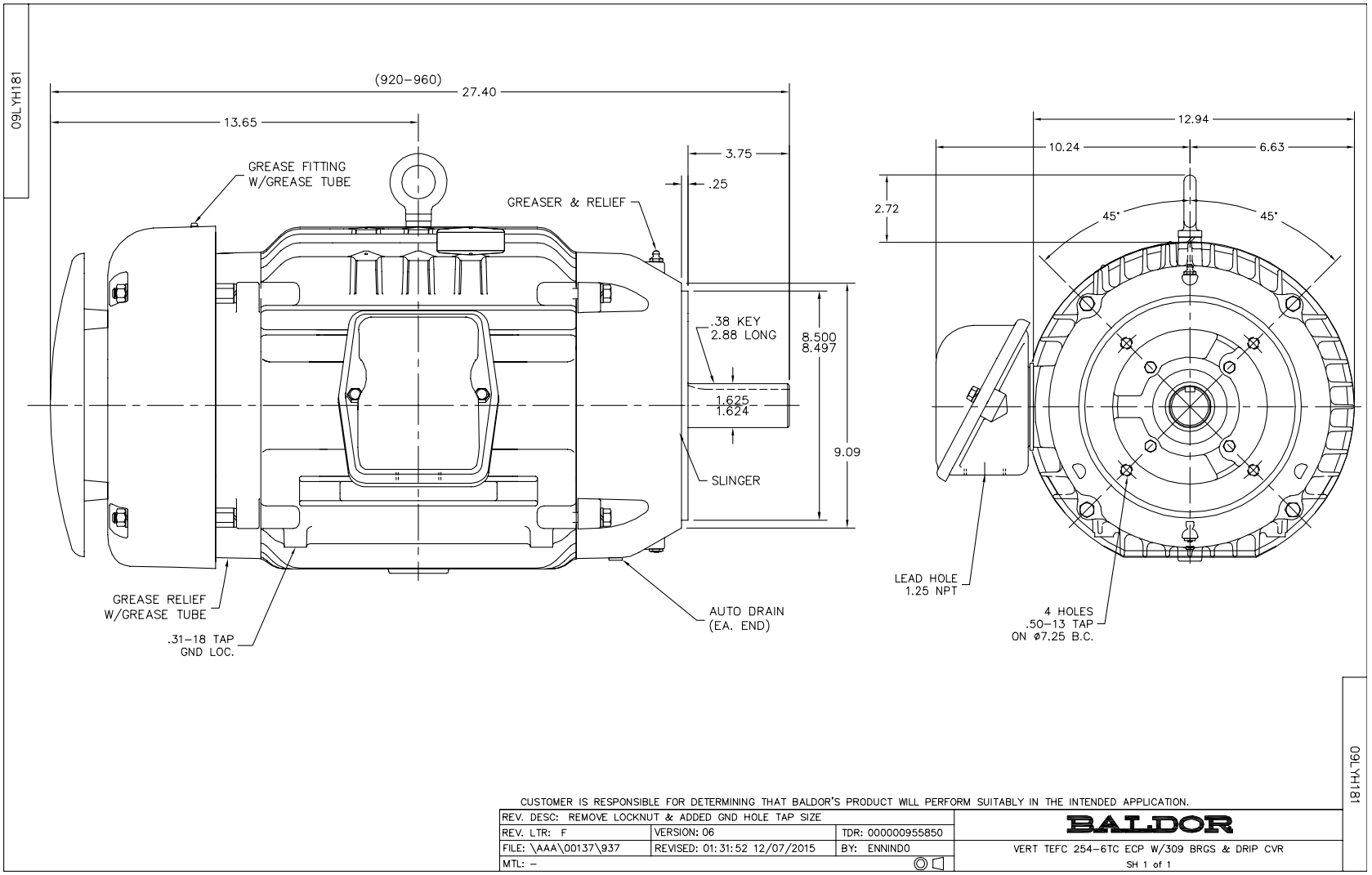
Nameplate Data				460 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	20			Full Load Torque	59.27 LB-FT
Volts	460			Start Configuration	direct on line
Full Load Amps	24			Breakdown Torque	232 LB-FT
R.P.M.	1770			Pull-up Torque	126 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	141 LB-FT
NEMA Design Code	A	KVA Code	J	Starting Current	198 A
Service Factor (S.F.)	1.15			No-load Current	10.4 A
NEMA Nom. Eff.	93	Power Factor	83	Line-line Res. @ 25ºC	0.332 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	58°C
S.F. Amps				Temp. Rise @ S.F. Load	70°C
				Locked-rotor Power Factor	26.9
				Rotor inertia	2.65 LB-FT2

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	67	78	83	86	87	85
Efficiency	89.2	93	93.7	93.6	93.1	92.4	93.3
Speed	1793	1786	1779	1772	1764	1755	1767
Line amperes	11.8	15	19.2	24	29.3	34.9	27.2

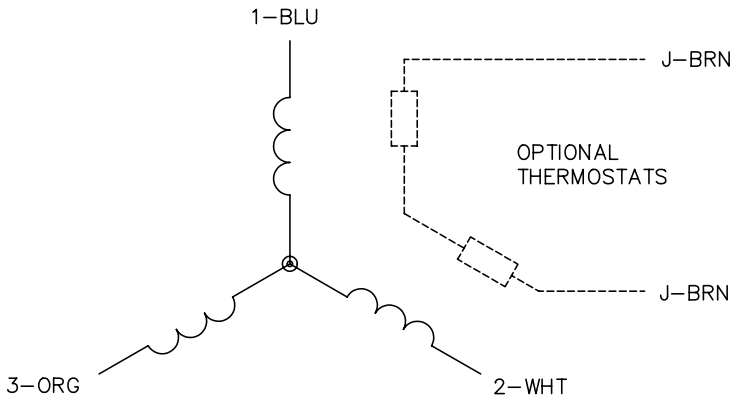
Performance Graph at 460V, 60Hz, 20.0HP Typical performance - Not guaranteed values

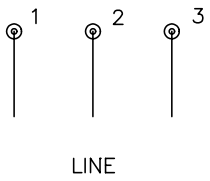



09LYH181
(920-960)
27.40
13.65
3.75
.25
GREASE FITTING
W/GREASE TUBE
GREASER & RELIEF
.38 KEY
2.88 LONG
8.500
8.497
1.625
1.624
9.09
SLINGER
GREASE RELIEF
W/GREASE TUBE
.31-18 TAP
GND LOC.
AUTO DRAIN
(EA. END)
12.94
10.24
6.63
2.72
45°
45°
LEAD HOLE
1.25 NPT
4 HOLES
.50-13 TAP
ON ø7.25 B.C.
09LYH181
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: REMOVE LOCKNUT & ADDED GND HOLE TAP SIZE
REV. LTR: F
VERSION: 06
TDR: 000000955850
FILE: \AAA\00137\937
REVISED: 01:31:52 12/07/2015
BY: ENNIND0
MTL: –
BALDOR
VERT TEFC 254-6TC ECP W/309 BRGS & DRIP CVR
SH 1 of 1

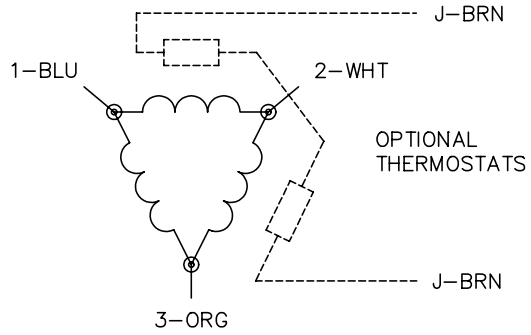
CD0006

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

CD0006

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