BALDOR • RELIANCE

Product Information Packet

VEM3610T

3HP,3450RPM,3PH,60HZ,3532M,N

Part Detail

Revision:	S	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Elec. Spec:**	35WGQ060	**CD Diagram:**	CD0005	**Mfg Plant:**	
Mech. Spec:	35L114	**Layout:**	35LYL114	**Poles:**	02	**Created Date:**	10-23-2012
Base:	N	**Eff. Date:**	08-24-2022	**Leads:**	9#18		

Specs

Catalog Number:	VEM3610T	**Heater Indicator:**	No Heater
Enclosure:	TEFC	**Insulation Class:**	F
Frame:	182TC	**Inverter Code:**	Inverter Ready
Frame Material:	Steel	**KVA Code:**	L
Motor Letter Type:	Three Phase	**Lifting Lugs:**	No Lifting Lugs
Output @ Frequency:	3.000 HP @ 60 HZ	**Locked Bearing Indicator:**	Locked Bearing
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	**Motor Lead Quantity/Wire Size:**	9 @ 18 AWG
Voltage @ Frequency:	230.0 V @ 60 HZ	**Motor Lead Exit:**	Ko Box
	460.0 V @ 60 HZ	**Motor Lead Termination:**	Flying Leads
XP Class and Group:	None	**Motor Type:**	3532M
XP Division:	Not Applicable	**Mounting Arrangement:**	F1
Agency Approvals:	CSA	**Power Factor:**	92
	CSA EEV	**Product Family:**	General Purpose
	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
Current @ Voltage:	7.900 A @ 208.0 V
	7.200 A @ 230.0 V
	3.600 A @ 460.0 V
Design Code:	B
Drip Cover:	No Drip Cover
Duty Rating:	CONT
Electrically Isolated Bearing:	Not Electrically Isolated
Feedback Device:	NO FEEDBACK
Front Face Code:	Standard
Front Shaft Indicator:	None

Shaft Extension Location:	Pulley End
Shaft Ground Indicator:	No Shaft Grounding
Shaft Rotation:	Reversible
Shaft Slinger Indicator:	No 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

Nameplate NP3441LUA

CAT.NO.	VEM3610T							
SPEC	35L114Q060G1							
HP	3							
VOLTS	230/460							
AMPS	7.2/3.6							
RPM	3450							
FRAME	182TC	**HZ**	60			**PH**	3	
SF	1.15	**CODE**	L	**DES**	B	**CLASS**	F	
NEMA NOM. EFF	86.5	**PF**	92					
RATING	40C AMB-CONT							
CC	010A	**USABLE AT 208V**	7.9					
ENCL	TEFC	**SER**						
DE	6206	**ODE**	6203					
VPWM INVERTER READY								
CT6-60H(10:1)VT3-60H(20:1								
	50Hz 3HP 190/380V 8.8/4.4A							SF1.0

AC Induction Motor Performance Data
Record # 50261
Typical performance - not guaranteed values

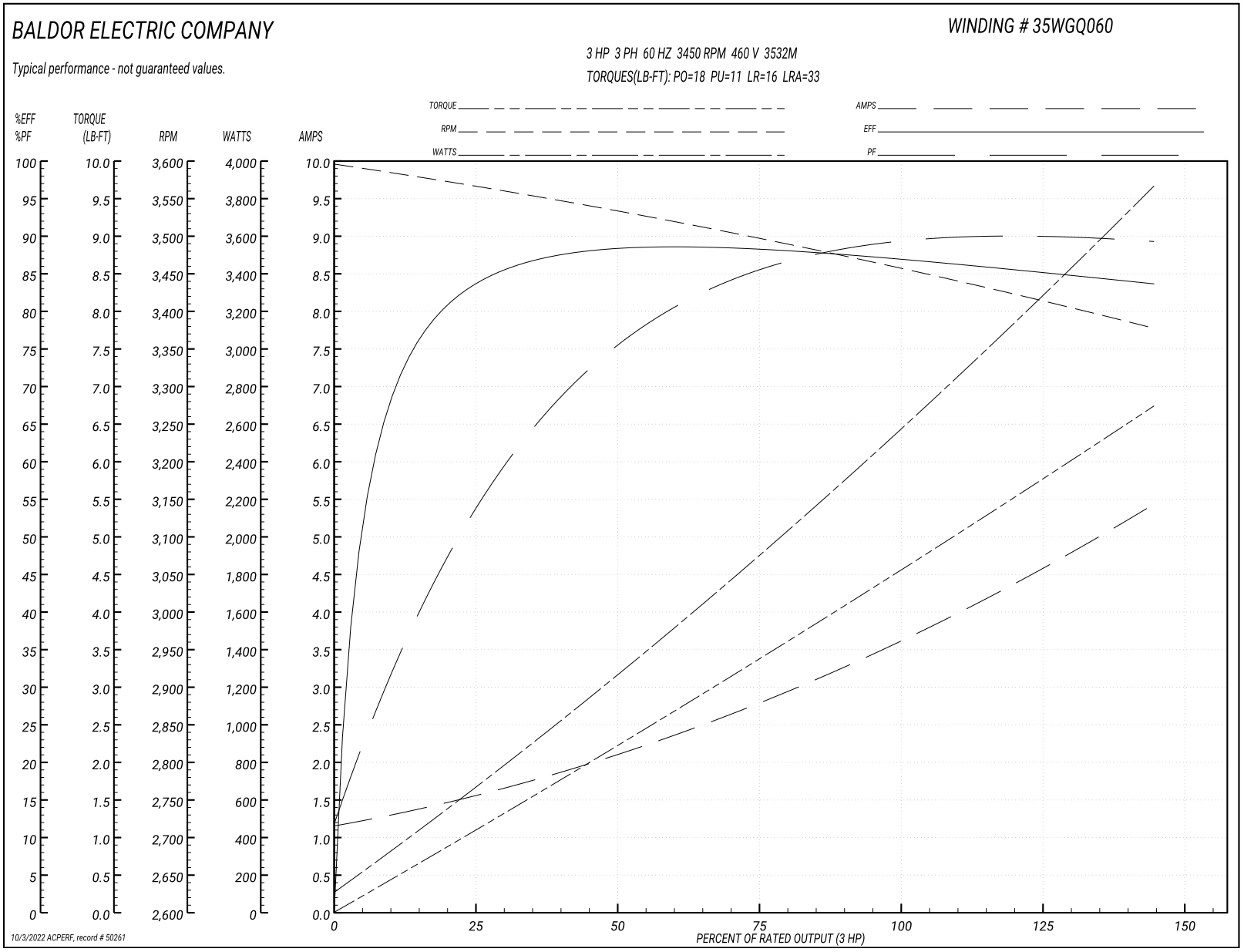
Winding: 35WGQ060-R002	**Type:** 3532M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	4.5 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			7.2/3.6	**Breakdown Torque**	18 LB-FT
R.P.M.			3450	**Pull-up Torque**	11 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	16 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	33 A
Service Factor (S.F.)			1.15	**No-load Current**	1.2 A
NEMA Nom. Eff.	86.5	**Power Factor**	92	**Line-line Res. @ 25ºC**	4.72 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	61°C
S.F. Amps				**Temp. Rise @ S.F. Load**	76°C

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	62	81	88	92	93	94	93
Efficiency	83.7	87.9	88.2	87.2	85.6	83.5	86.2
Speed	3562	3531	3498	3462	3421	3375	3437
Line amperes	1.5	2.1	2.8	3.6	4.5	5.4	4.1

Performance Graph at 460V, 60Hz, 3.0HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data
Record # 59171
Typical performance - not guaranteed values

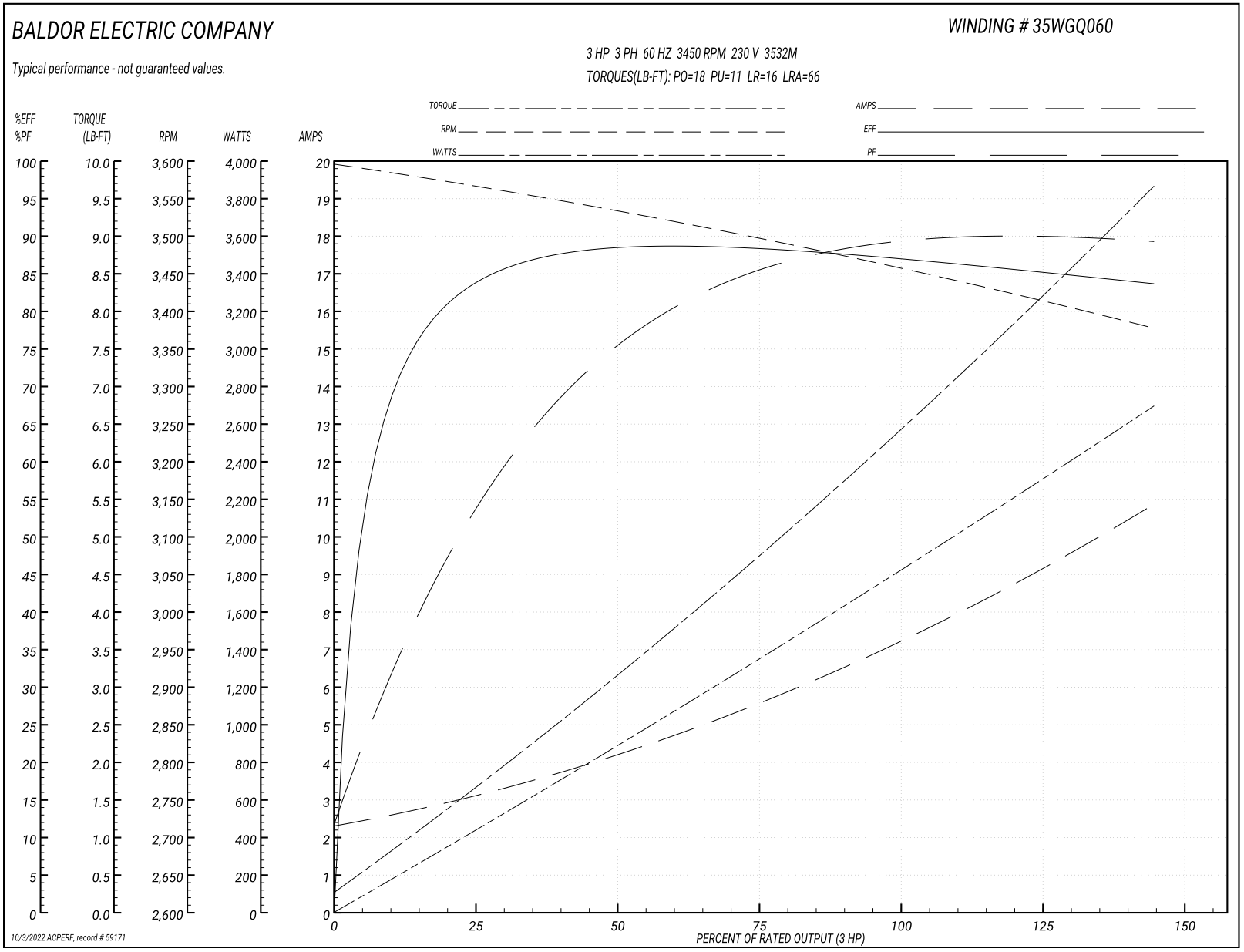
Winding: 35WGQ060-R002	**Type:** 3532M	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	4.5 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			7.2/3.6	**Breakdown Torque**	18 LB-FT
R.P.M.			3450	**Pull-up Torque**	11 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	16 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	66 A
Service Factor (S.F.)			1.15	**No-load Current**	2.4 A
NEMA Nom. Eff.	86.5	**Power Factor**	92	**Line-line Res. @ 25ºC**	1.17 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	61°C
S.F. Amps				**Temp. Rise @ S.F. Load**	73°C
				Locked-rotor Power Factor	47.1
				Rotor inertia	0.0885 LB-FT2

Load Characteristics 230 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	57	77	85	88	89	90	89
Efficiency	84.1	87.9	88.4	87.2	85.7	83.5	86.3
Speed	3562	3531	3498	3462	3421	3375	3437
Line amperes	3	4.2	5.6	7.2	9	10.8	8.28

Performance Graph at 230V, 60Hz, 3.0HP Typical performance - Not guaranteed values



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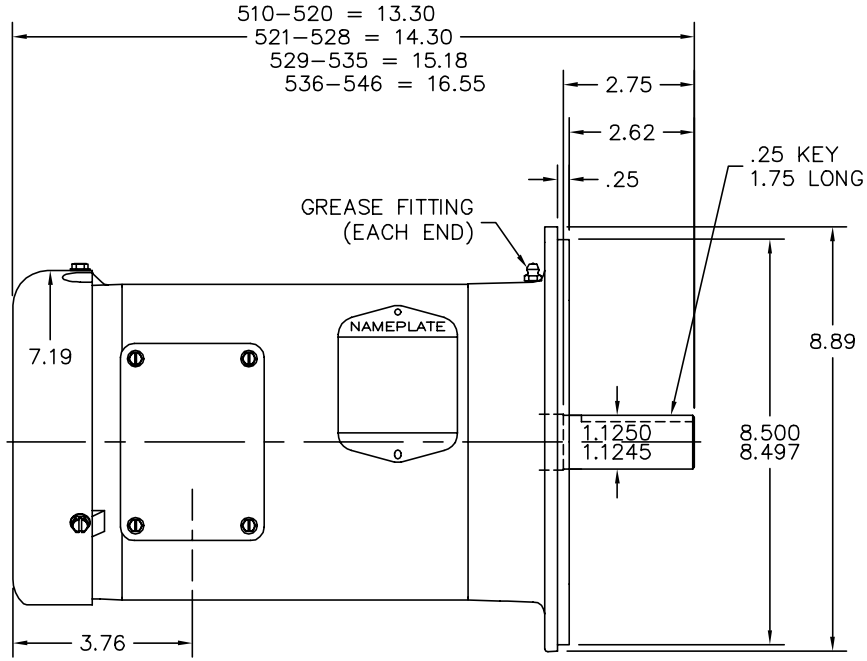
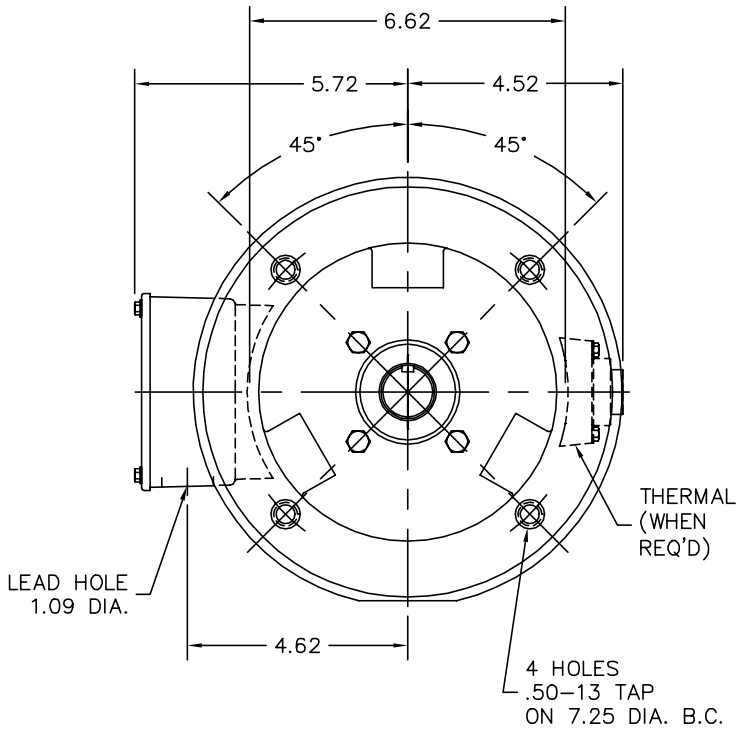
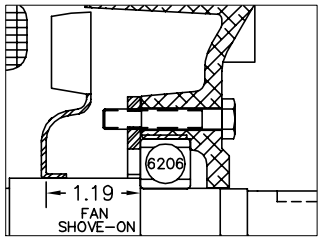






PULLEY END DETAIL

35LYL114

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

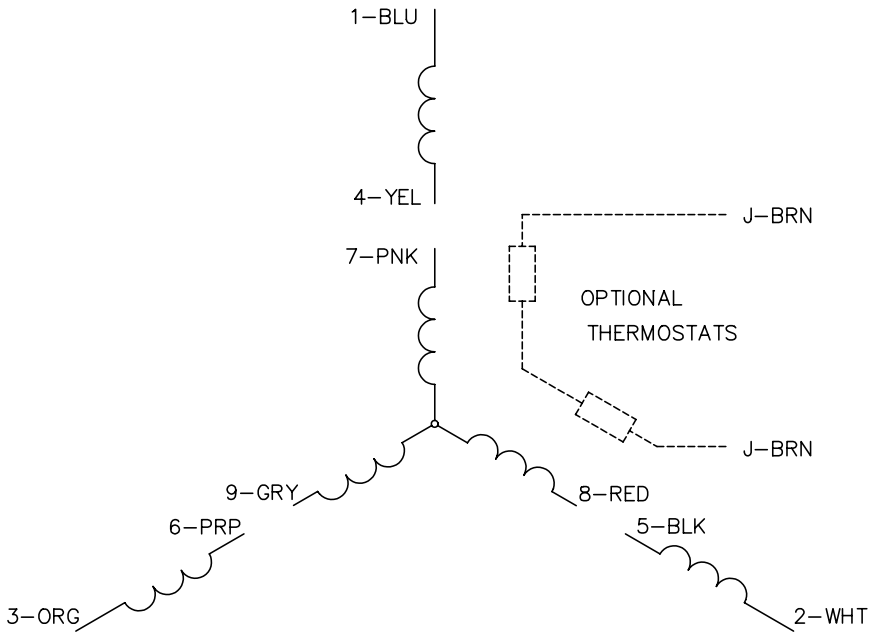
REV. DESC: UPDATE WAVY WASHER GRAPHIC TO PART		
REV. LTR: M	VERSION: 03	TDR: 000001050064
FILE: \AAA\00015\725	REVISED: 12:33:29 11/07/2017	BY: ENERIN0
MTL: –		

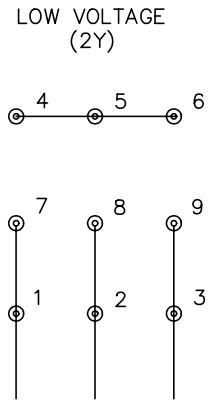
BALDOR

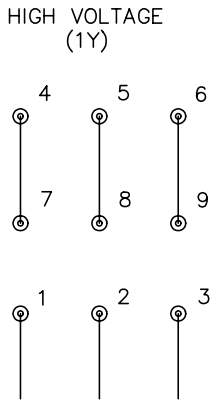
STD VERT 182–4TC TEFC 35M

SH 1 of 1

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			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

CD0005