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Product Information Packet

WALKER INDUSTRIAL PRODUCTS, INC.

VEM3546T-57

1HP,1440RPM,3PH,50HZ,143TC,3518M,TEFC,F1

Part Detail

Revision:	A	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Elec. Spec:**	35WGZ674	**CD Diagram:**	CD0022	**Mfg Plant:**	
Mech. Spec:	35AA003	**Layout:**	35LYAA003	**Poles:**	04	**Created Date:**	12-22-2015
Base:	N	**Eff. Date:**	02-02-2017	**Leads:**	6#18		

Specs

Enclosure:	TEFC	**Inverter Code:**	Inverter Ready
Frame:	143TC	**KVA Code:**	M
Frame Material:	Steel	**Lifting Lugs:**	No Lifting Lugs
Output @ Frequency:	1.000 HP @ 50 HZ	**Locked Bearing Indicator:**	Locked Bearing
Synchronous Speed @ Frequency:	1500 RPM @ 50 HZ	**Motor Lead Quantity/Wire Size:**	6 @ 18 AWG
Voltage @ Frequency:	230.0 V @ 50 HZ	**Motor Lead Exit:**	Ko Box
	400.0 V @ 50 HZ	**Motor Lead Termination:**	Flying Leads
XP Class and Group:	None	**Motor Type:**	3518M
XP Division:	Not Applicable	**Mounting Arrangement:**	F1
Agency Approvals:	UR	**Power Factor:**	74
	CE	**Product Family:**	General Purpose
	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)	**RoHS Status:**	ROHS COMPLIANT
Blower:	None	**Shaft Extension Location:**	Pulley End
Current @ Voltage:	3.100 A @ 230.0 V	**Shaft Ground Indicator:**	No Shaft Grounding

	1.800 A @ 400.0 V	**Shaft Rotation:**	Reversible
Design Code:	B	**Shaft Slinger Indicator:**	No Slinger
Drip Cover:	No Drip Cover	**Speed Code:**	Single Speed
Duty Rating:	CONT	**Motor Standards:**	NEMA
Electrically Isolated Bearing:	Not Electrically Isolated	**Starting Method:**	Direct on line
Feedback Device:	No Feedback	**Thermal Device - Bearing:**	None
Front Face Code:	Standard	**Thermal Device - Winding:**	None
Front Shaft Indicator:	None	**Vibration Sensor Indicator:**	No Vibration Sensor
Heater Indicator:	No Heater	**Winding Thermal 1:**	None
Insulation Class:	F	**Winding Thermal 2:**	None

Nameplate NP2716L

CAT NO	VEM3546T-57						
SPEC.	35AA003Z674G1						
HP	1			**PH**	3		
VOLTS	230/400						
AMP	3.1/1.8						
RPM	1440						
FRAME	143TC	**HZ**	50			**I.P.**	54
SER.F.	1.15	**CODE**	M	**DES**	B	**CL**	F
NOM.EFF.	82.5			**% (100%)**			
PF	74			**USABLE AT 208V**			
RATING	40C AMB-CONT			**CC**			
DE BRG	6205	**ODE**	6203				
ENCL	TEFC	**SN**					
BLANK	IE3 - 83.0 (75%) 83.4 (50%)						

AC Induction Motor Performance Data

Record # 54642 - Typical performance - not guaranteed values

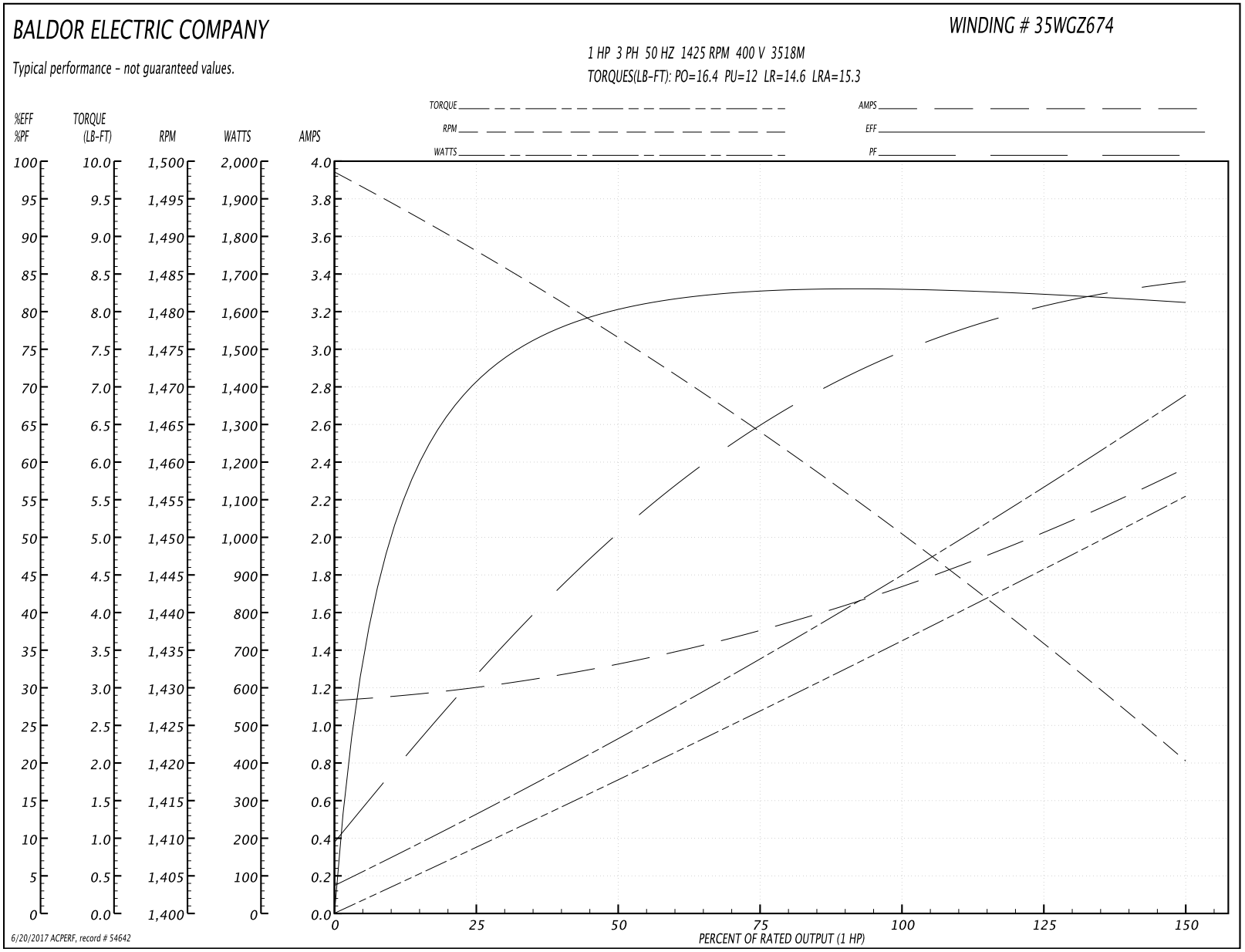
Winding: 35WGZ674-R003	**Type:** 3518M	**Enclosure:** TEFC

Nameplate Data				400 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	1			Full Load Torque	3.66 LB-FT
Volts	230/400			Start Configuration	direct on line
Full Load Amps	3.1/1.8			Breakdown Torque	16.4 LB-FT
R.P.M.	1425			Pull-up Torque	12 LB-FT
Hz	50	Phase	3	Locked-rotor Torque	14.6 LB-FT
NEMA Design Code	B	KVA Code	M	Starting Current	15.3 A
Service Factor (S.F.)	1.15			No-load Current	1.14 A
NEMA Nom. Eff.	82.5	Power Factor	74	Line-line Res. @ 25ºC	15 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	45°C
S.F. Amps				Temp. Rise @ S.F. Load	55°C
				Locked-rotor Power Factor	69.1
				Rotor inertia	0.106 LB-FT2

Load Characteristics 400 V, 50 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	51	64	74	80	84	78
Efficiency	69.6	79.6	82.6	83.6	82.3	81.1	82.8
Speed	1488	1476	1465	1450	1436	1420	1442
Line amperes	1.19	1.32	1.5	1.75	2.04	2.36	1.92

Performance Graph at 400V, 50Hz, 1.0HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 64310 - Typical performance - not guaranteed values

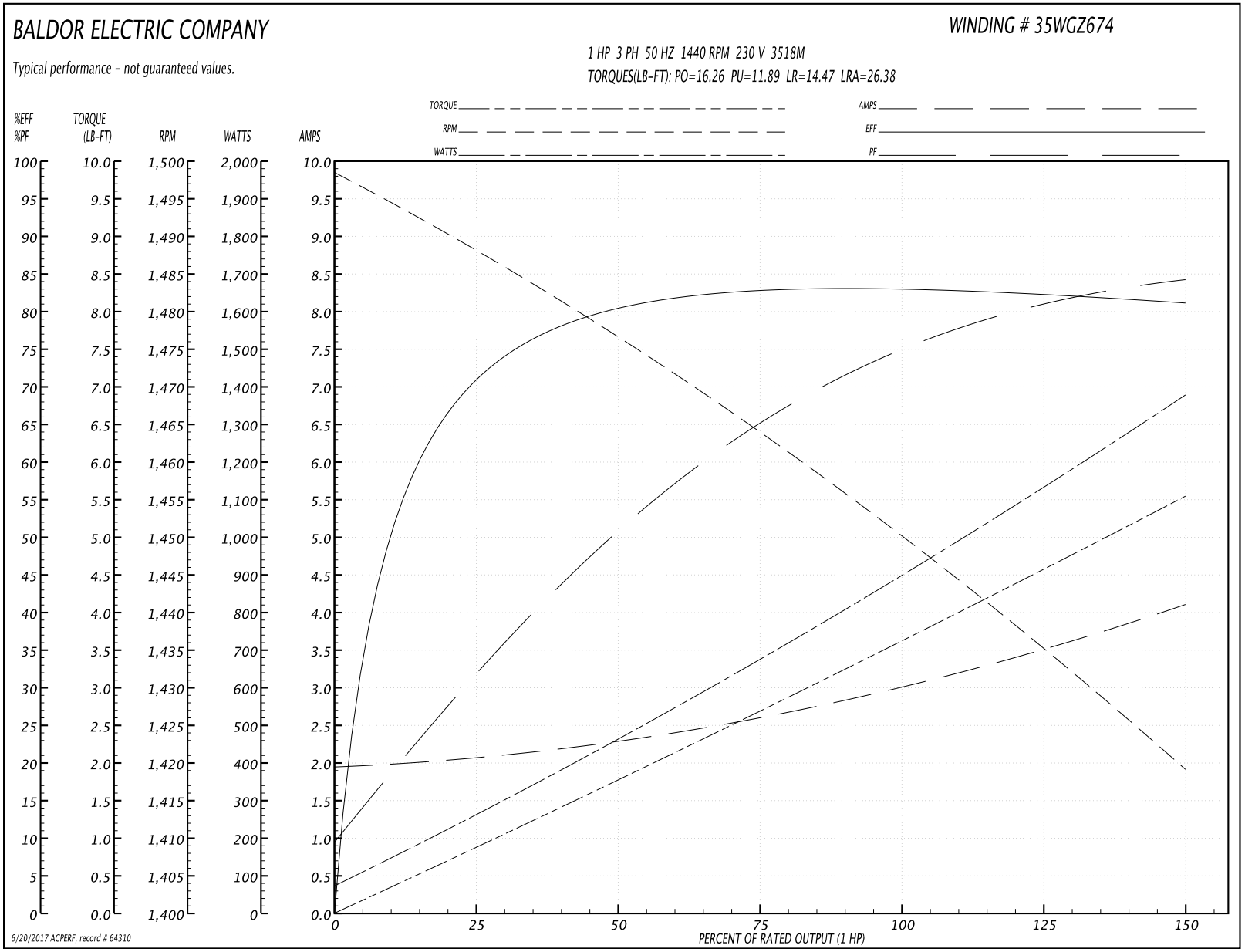
Winding: 35WGZ674-R003	**Type:** 3518M	**Enclosure:** TEFC

Nameplate Data				230 V, 50 Hz: Low Voltage Connection	
Rated Output (HP)	1			Full Load Torque	3.66 LB-FT
Volts	230/400			Start Configuration	direct on line
Full Load Amps	3.1/1.8			Breakdown Torque	16.26 LB-FT
R.P.M.	1440			Pull-up Torque	11.89 LB-FT
Hz	50	Phase	3	Locked-rotor Torque	14.47 LB-FT
NEMA Design Code	B	KVA Code	M	Starting Current	26.38 A
Service Factor (S.F.)	1.15			No-load Current	1.96 A
NEMA Nom. Eff.	82.5	Power Factor	74	Line-line Res. @ 25ºC	4.99 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	45°C
S.F. Amps				Temp. Rise @ S.F. Load	53°C
				Locked-rotor Power Factor	69.1
				Rotor inertia	0.106 LB-FT2

Load Characteristics 230 V, 50 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	52	65	75	81	85	79
Efficiency	69.7	79.7	82.7	83.5	82.1	81	82.7
Speed	1488	1476	1465	1450	1435	1419	1441
Line amperes	2.05	2.28	2.59	3.03	3.54	4.09	3.34

Performance Graph at 230V, 50Hz, 1.0HP Typical performance - Not guaranteed values



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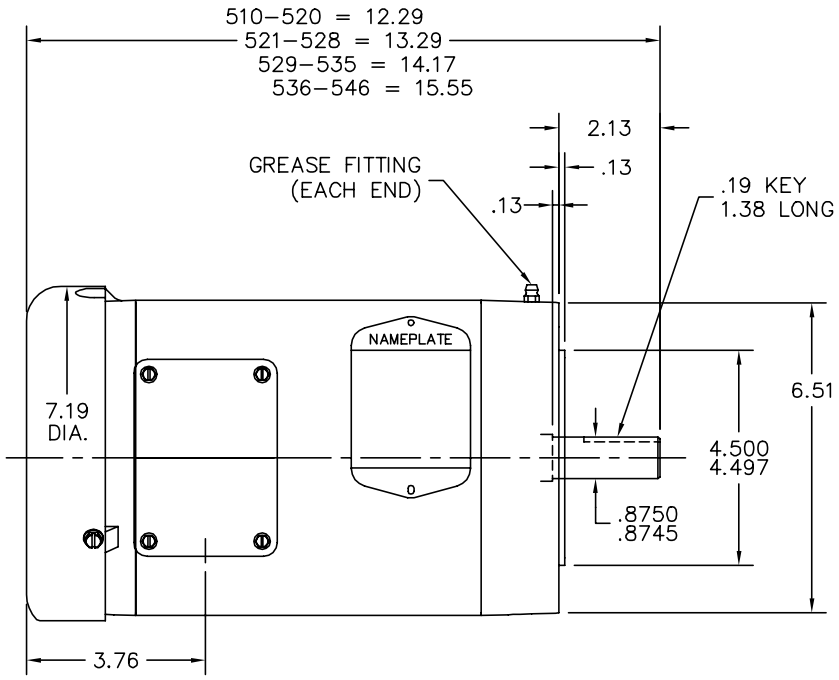
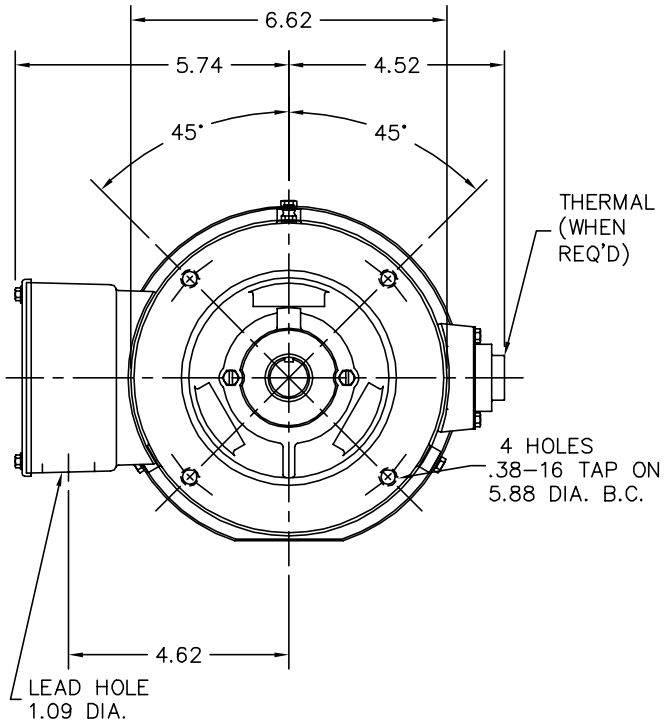


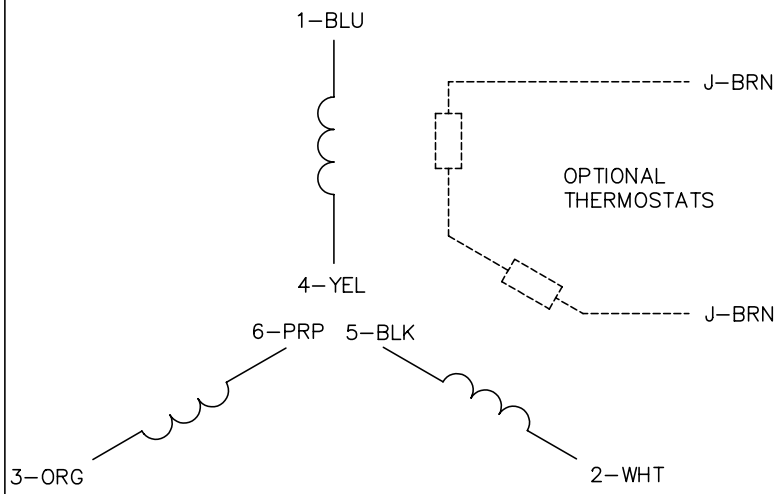


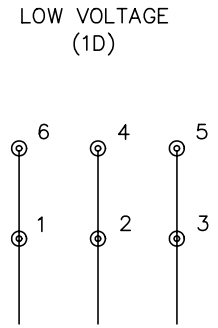
35LYAA003

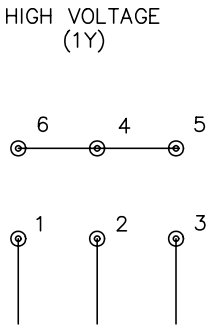
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: NEW VERSION OF A003 W/1.09 LEAD HOLE			BALDOR • DODGE • RELIANCE
REV. LTR: –	VERSION: 00	TDR: 000000538422	
FILE: \AAA\00172\065		REVISED: 08:22:31 05/24/2010	STD VERT 143–5TC TEFC 35M
MTL: –		BY: ENJERWO	SH 1 of 1

CD0022







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: F	BY: JLP	REVISED: 01/21/99 3:54	TDR: 0171435
CD0022		FILE: AAA00005144	MDL: –
		MTL: –	3PH, DV, 6 LEADS, DELTA/WYE CONNECTION

CD0022