BALDOR
A MEMBER OF THE ABB GROUP

BALDOR • RELIANCE

Product Information Packet

FERRETERIA AMUNATEGUI

EM3546T-57

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

Copyright © All product information within this document is subject to Baldor Electric Company copyright © protection, unless otherwise noted.

Part Detail

Revision:	D	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Elec. Spec:**	35WGZ674	**CD Diagram:**	CD0022	**Mfg Plant:**	
Mech. Spec:	35AA001	**Layout:**	35LYAA001	**Poles:**	04	**Created Date:**	12-22-2015
Base:	RG	**Eff. Date:**	06-28-2017	**Leads:**	6#18		

Specs

Catalog Number:	EM3546T-57	**Insulation Class:**	F
Enclosure:	TEFC	**Inverter Code:**	Not Inverter
Frame:	143T	**KVA Code:**	M
Frame Material:	Steel	**Lifting Lugs:**	No Lifting Lugs
Output @ Frequency:	1.000 HP @ 50 HZ	**Locked Bearing Indicator:**	No Locked Bearing
Synchronous Speed @ Frequency:	1500 RPM @ 50 HZ	**Motor Lead Quantity/Wire Size:**	6 @ 18 AWG
Voltage @ Frequency:	400.0 V @ 50 HZ	**Motor Lead Exit:**	Ko Box
	230.0 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:	CE	**Power Factor:**	74
	CSA	**Product Family:**	General Purpose
	UR	**Pulley End Bearing Type:**	Ball
Auxillary Box:	No Auxillary Box	**Pulley Face Code:**	Standard
Auxillary Box Lead Termination:	None	**Pulley Shaft Indicator:**	Standard
Base Indicator:	Rigid	**Rodent Screen:**	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	**RoHS Status:**	ROHS COMPLIANT
Blower:	None	**Shaft Extension Location:**	Pulley End

BALDOR A MEMBER OF THE ABB GROUP

Current @ Voltage:	1.800 A @ 400.0 V
	3.100 A @ 230.0 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
Heater Indicator:	No Heater

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 NP2716L

CAT NO	EM3546T-57						
SPEC.	35AA001Z674G1						
HP	1			**PH**	3		
VOLTS	230/400						
AMP	3.1/1.8						
RPM	1440						
FRAME	143T	**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%)						

BALDOR
A MEMBER OF THE ABB GROUP

AC Induction Motor Performance Data

Record # 54642 - Typical performance - not guaranteed values

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

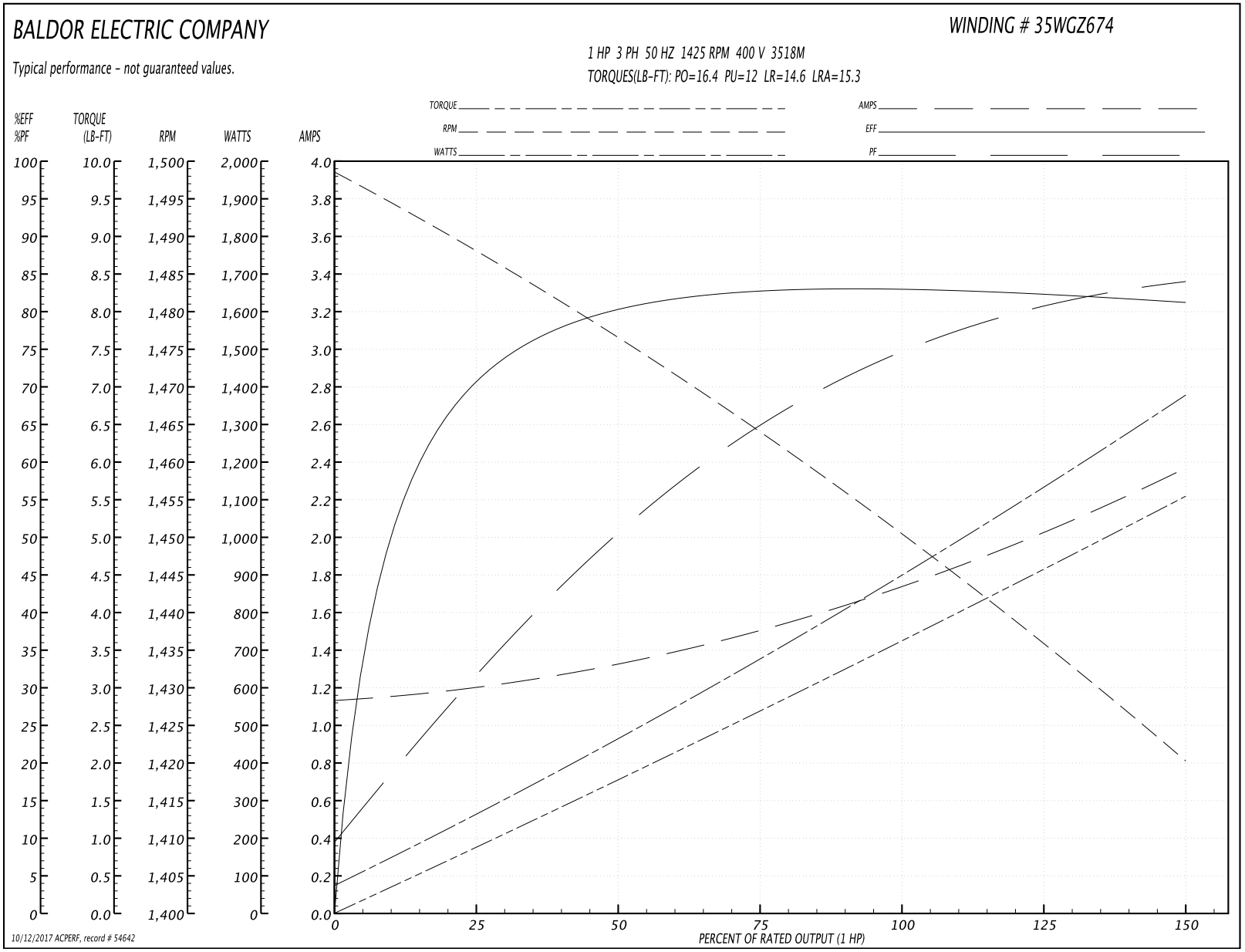
Nameplate Data				400 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	1			Full Load Torque	3.66 LB-FT
Volts	230/400			Start Configuration	direct on line
Full Load Amps	3.1/1.8			Breakdown Torque	16.4 LB-FT
R.P.M.	1425			Pull-up Torque	12 LB-FT
Hz	50	Phase	3	Locked-rotor Torque	14.6 LB-FT
NEMA Design 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

BALDOR A MEMBER OF THE ABB GROUP

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



BALDOR
A MEMBER OF THE ABB GROUP

AC Induction Motor Performance Data

Record # 64310 - Typical performance - not guaranteed values

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

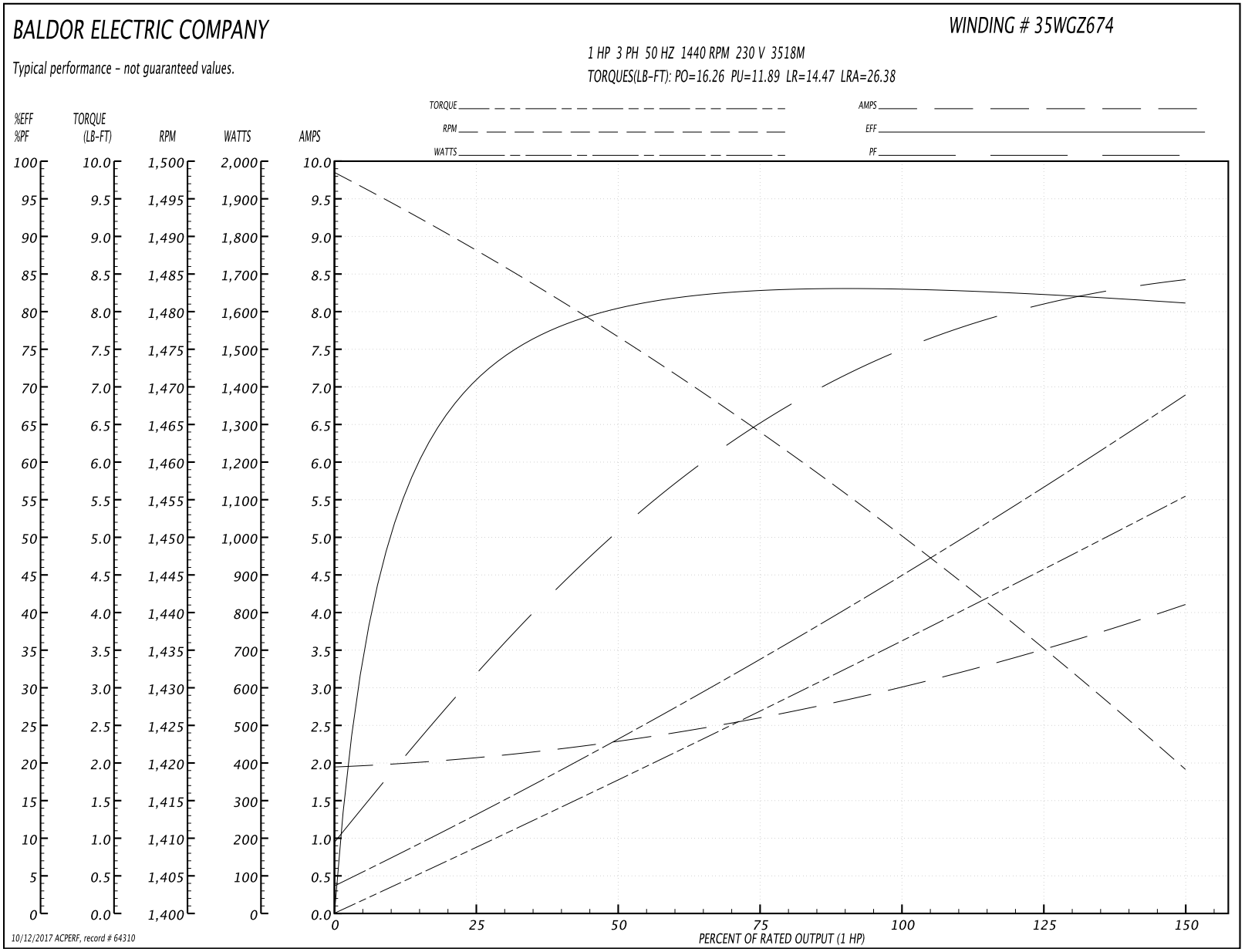
Nameplate Data				230 V, 50 Hz: Low Voltage Connection	
Rated Output (HP)	1			Full Load Torque	3.66 LB-FT
Volts	230/400			Start Configuration	direct on line
Full Load Amps	3.1/1.8			Breakdown Torque	16.26 LB-FT
R.P.M.	1440			Pull-up Torque	11.89 LB-FT
Hz	50	Phase	3	Locked-rotor Torque	14.47 LB-FT
NEMA 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

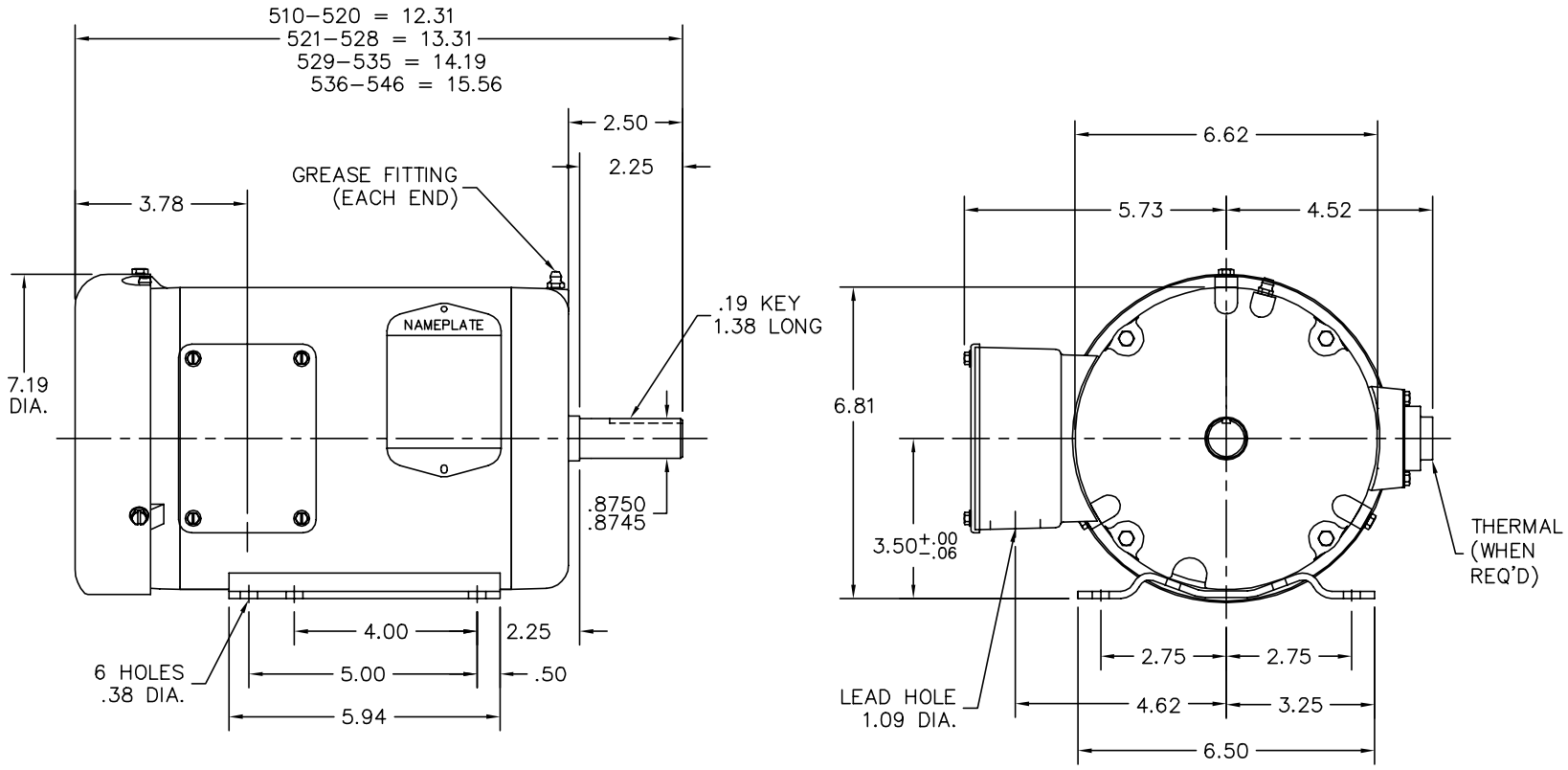
BALDOR A MEMBER OF THE ABB GROUP

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



BALDOR
A MEMBER OF THE ABB GROUP

35LYAA001



35LYAA001

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

REV. DESC: REPLACE 35SB0002 W/35SB2075		
REV. LTR: B	VERSION: 02	TDR: 000000962105
FILE: \AAA\00168\387	REVISED: 11:25:03 01/19/2016	BY: ENALEMO
MTL: –		

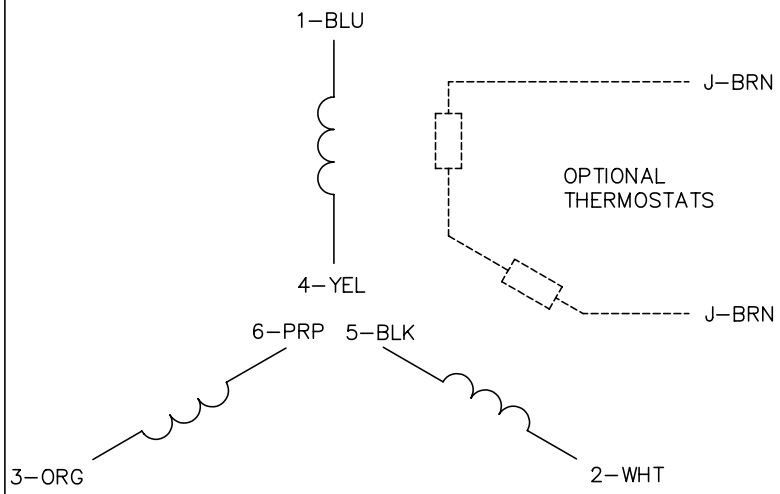
BALDOR

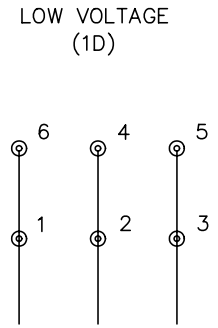
STD HORZ 143–5T TEFC 35M W/1.09 LEAD HOLE

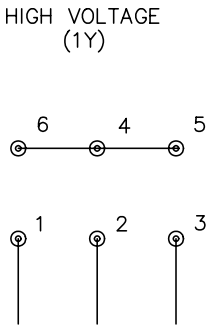
SH 1 of 1

BALDOR
A MEMBER OF THE ABB GROUP

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

BALDOR A MEMBER OF THE ABB GROUP