ABB BALDOR RELIANCE

Customer information packet

CEFWWDM3546T

1HP, 1760RPM, 3PH, 60HZ, 143TC, 3519M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	143TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	CSA
	UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	1.500 A @ 460.0 V
	3.000 A @ 230.0 V
	3.100 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	T
Type	AC
Mech. spec.	35E1678
Base	
Status	NLA/A
Elec. spec.	35WGM492
Layout	35LYE1678
Eff. date	11-05-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	12-14-2012

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3520M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.28 IN
Power Factor	71
Product Family	Super White Washdown
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1760 rpm
Speed Code	Single Speed
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

NP1669L									
CAT.NO.	CEFWWDM3546T								
SPEC.	35E1678M492G1								
HP	1								
VOLTS	208-230/460								
AMP	3.1-3/1.5								
RPM	1760								
FRAME	143TC	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	L	**DES**	B	**CLASS**	F		
NEMA-NOM-EFF	85.5	**PF**	71						
RATING	40C AMB-CONT								
CC	010A								
DE	6205	**ODE**	6205						
ENCL	TEFC	**SN**							
BLANK									

AC Induction Motor Performance Data
Record # 31554
Typical performance - not guaranteed values

Winding: 35WGM492-R001	**Type:** 3520M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	2.99 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			3.1-3/1.5	**Breakdown Torque**	13.5 LB-FT
R.P.M.			1760	**Pull-up Torque**	8.25 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	8.52 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	12.4 A
Service Factor (S.F.)			1.15	**No-load Current**	1.07 A
NEMA Nom. Eff.	85.5	**Power Factor**	71	**Line-line Res. @ 25ºC**	15 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	36°C
S.F. Amps				**Temp. Rise @ S.F. Load**	42°C
				Locked-rotor Power Factor	53.8
				Rotor inertia	0.118 LB-FT2

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	29	46	60	69	75	79	75
Efficiency	74.2	82.9	85.4	85.8	85.4	84.5	85.4
Speed	1790	1781	1771	1760	1749	1736	1754
Line amperes	1.11	1.24	1.39	1.59	1.83	2.11	1.69

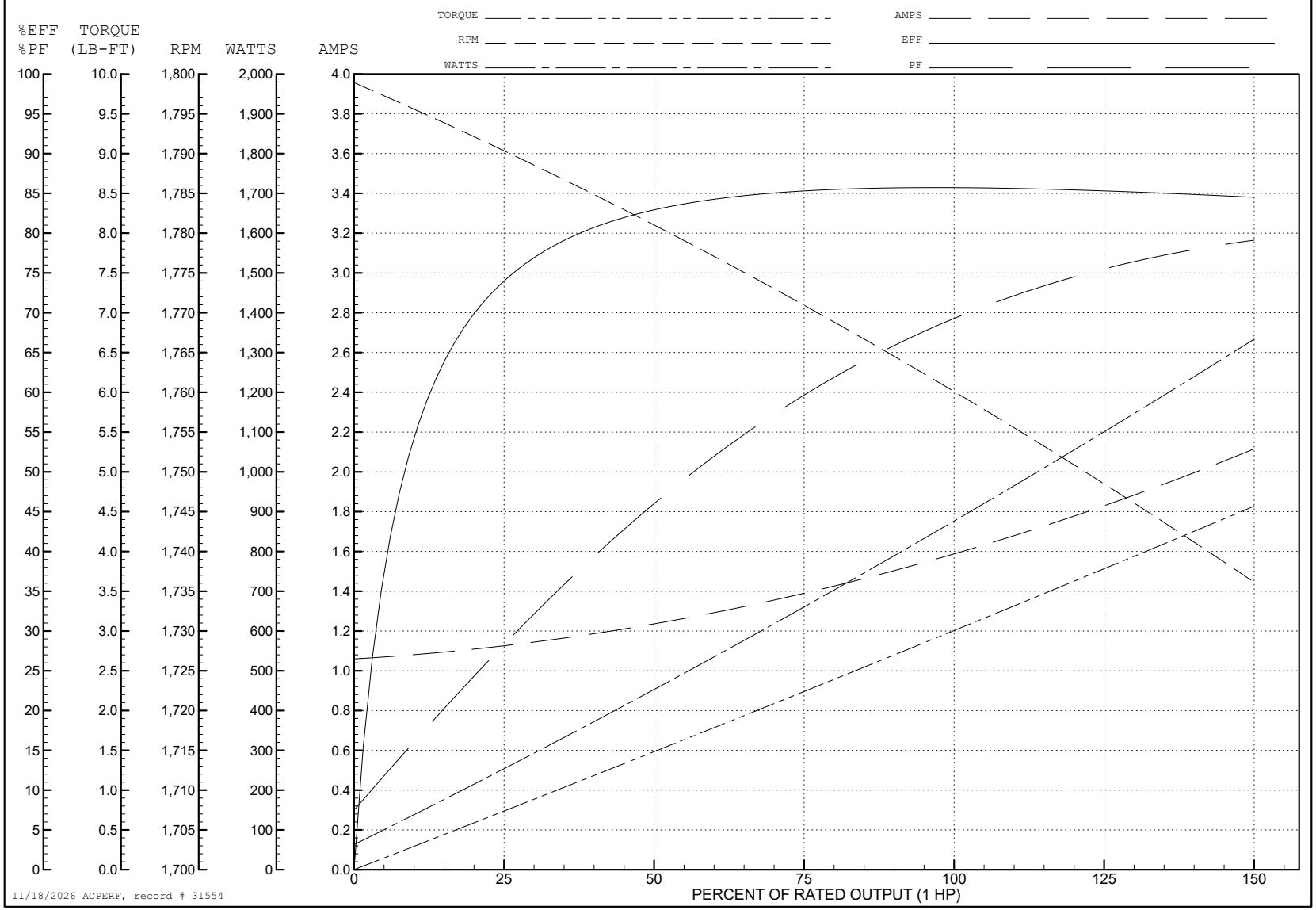
ABB Motors and Mechanical Inc.

WINDING # 35WGM492

1 HP 3 PH 60 HZ 1760 RPM 460 V 3520M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=13.5 PU=8.25 LR=8.52 LRA=12.4



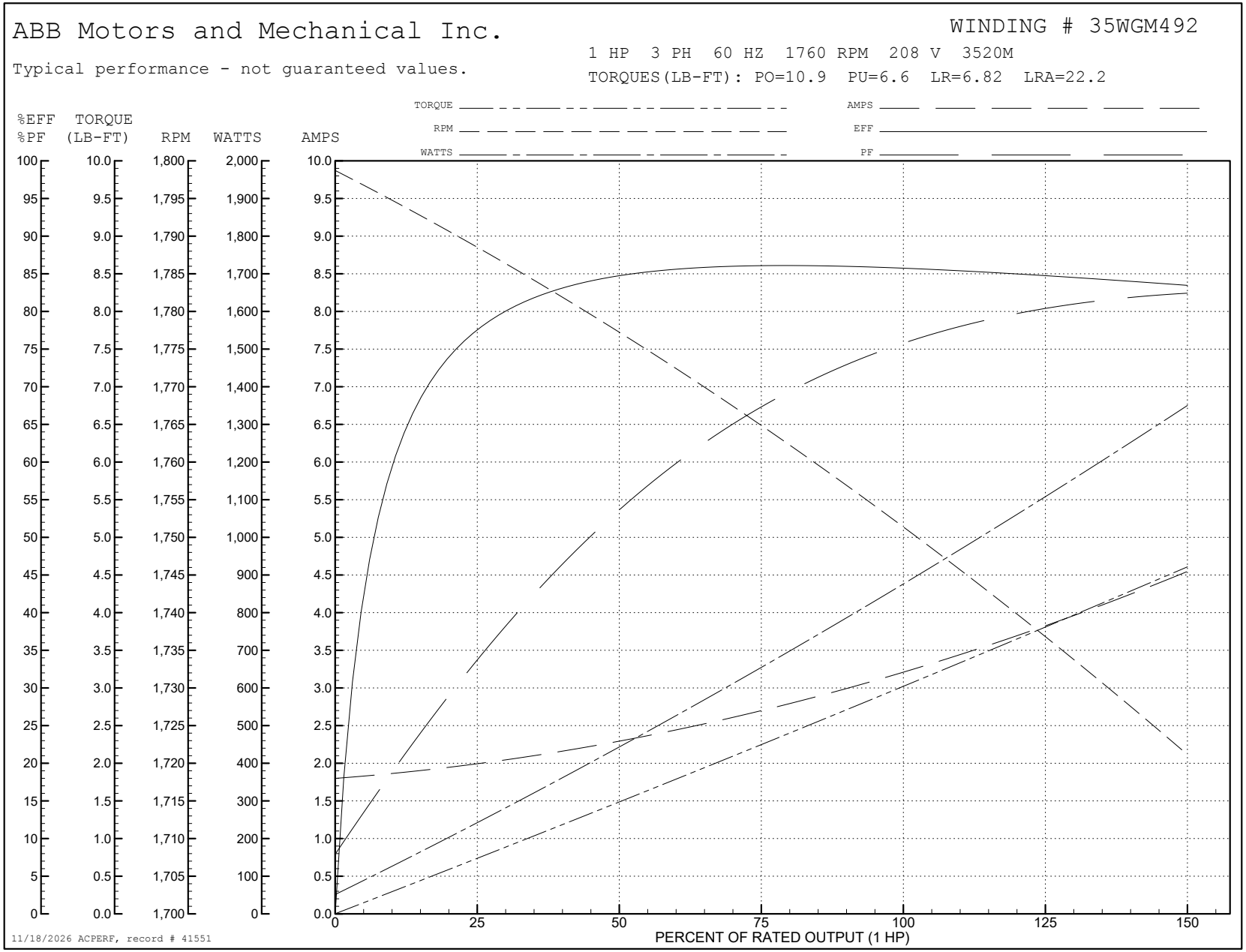
AC Induction Motor Performance Data
Record # 41551
Typical performance - not guaranteed values

Winding: 35WGM492-R001	**Type:** 3520M	**Enclosure:** TEFC

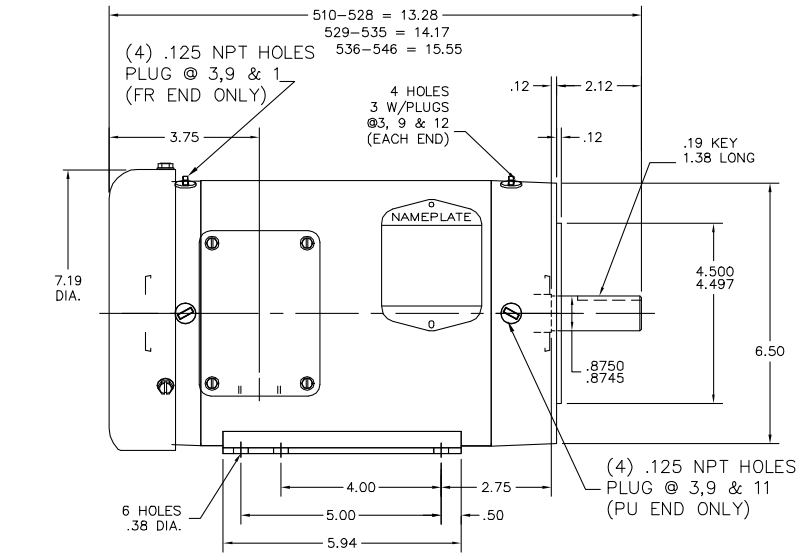
Nameplate Data				**208 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	3 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			3.1-3/1.5	**Breakdown Torque**	10.9 LB-FT
R.P.M.			1760	**Pull-up Torque**	6.6 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	6.82 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	22.2 A
Service Factor (S.F.)			1.15	**No-load Current**	1.83 A
NEMA Nom. Eff.	85.5	**Power Factor**	71	**Line-line Res. @ 25ºC**	3.75 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	36°C
S.F. Amps				**Temp. Rise @ S.F. Load**	43°C
				Locked-rotor Power Factor	53.2
				Rotor inertia	0.118 LB-FT2

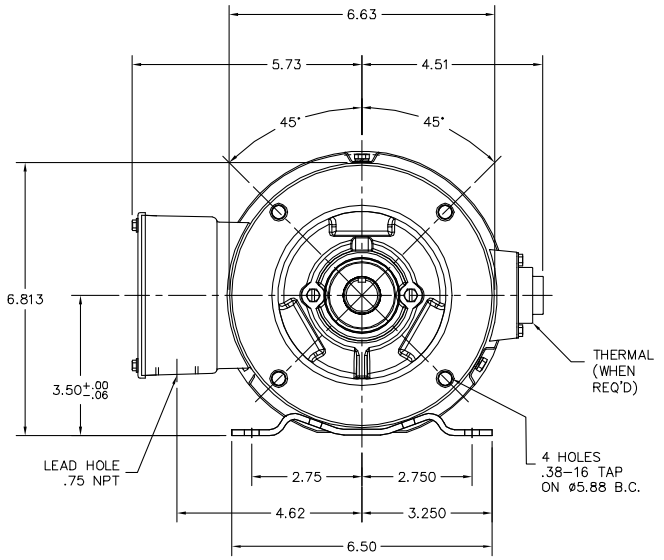
Load Characteristics 208 V, 60 Hz, 1 HP

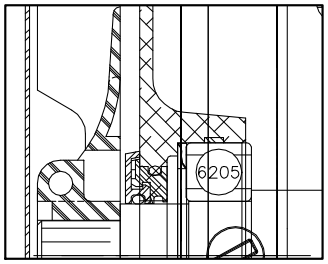
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	35	54	67	75	80	83	79
Efficiency	77.7	84.7	86	85.8	84.9	83.4	85.2
Speed	1788	1777	1765	1752	1737	1721	1743
Line amperes	1.95	2.29	2.7	3.22	3.83	4.53	3.49


ABB Motors and Mechanical Inc.
WINDING # 35WGM492
1 HP 3 PH 60 HZ 1760 RPM 208 V 3520M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=10.9 PU=6.6 LR=6.82 LRA=22.2
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1 HP)
11/18/2026 ACPERF, record # 41551

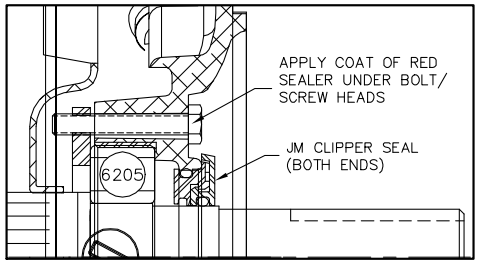
35LYE1678







FRONT END DETAIL



PULLEY END DETAIL

35LYE1678

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

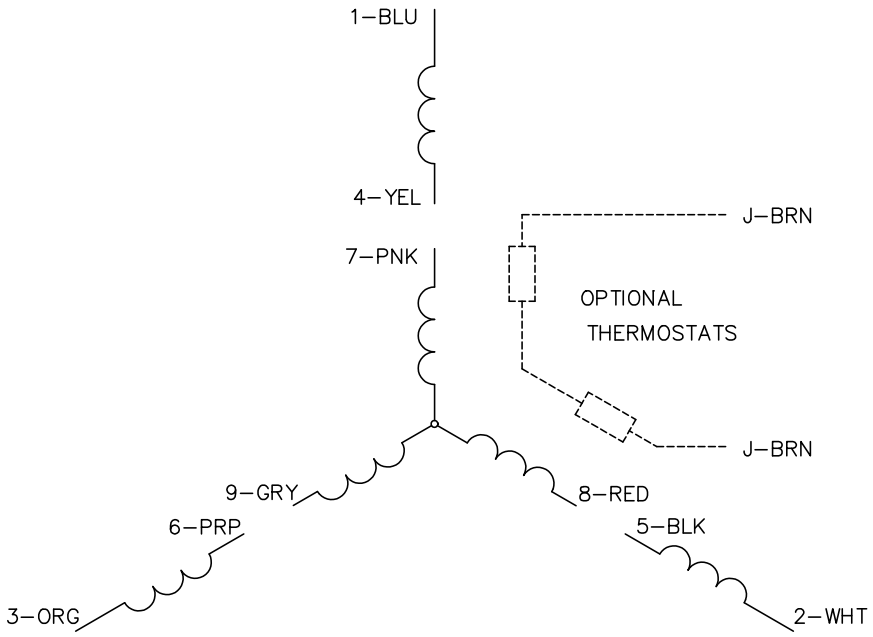
REV. DESC: UPDATE ENDPLATES AND NOTES		
REV. LTR: A	VERSION: 01	TDR: 000001076108
FILE: \AAA\00196\418	REVISED: 09:49:43 06/28/2018	BY: USJOBUR22
MTL: –		

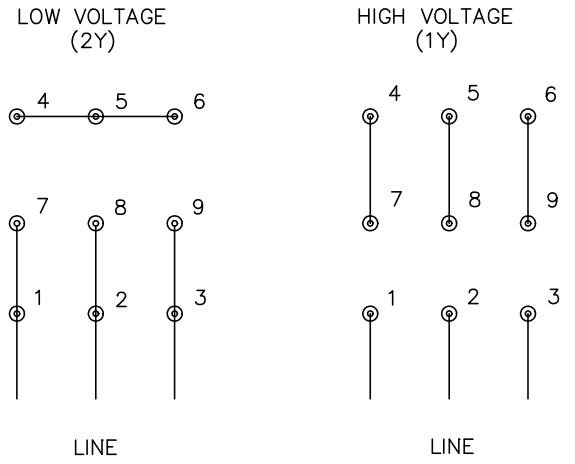
BALDOR - RELIANCE®

STD HORZ 143–5TC TEFC 35M WD6

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.

CD0005

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