

ABB BALDOR RELIANCE III

Customer information packet

VXM14222T

2//1.5HP, 3490//2890RPM, 3PH, 60//50HZ, 145T

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	145TC
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	2.000 HP @ 60 HZ 1.500 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 190.0 V @ 50 HZ 230.0 V @ 60 HZ 380.0 V @ 50 HZ
Agency Approvals	UL CSA EEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	2.400 A @ 380.0 V 2.500 A @ 460.0 V 4.800 A @ 190.0 V 5.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGM774
Layout	35LYE380
Eff. date	10-21-2022
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	03-02-2021

Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	2.4 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3526M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.21 IN
Power Factor	88
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3490 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

Winding Thermal 2

None

Nameplate

NP0887XPSLEV													
NO.							CC	010A					
S/N							TEMP CODE		T3C				
SPEC.	35-0000-1041						INV.TYPE		PWM				
CAT.NO.	VXM14222T						C HP FR		60	C HP TO		90	
HP	2//1.5						CT HZ FROM		6	CT HZ TO		60	
VOLTS	230/460//190/380						VT HZ FROM		6	VT HZ TO		60	
AMPS	5/2.5//4.8/2.4				MAG CUR		1.8/.9						
RPM	3490//2890				MX RPM		5400						
HZ	60//50	PH	3	CL	F	NOM.EFF.		85.5					
SER.F.	1.15	DES	B	SL HZ		2	WK2	0.07					
FRAME	145TC	RATING		40C AMB-CONT									
	NEMA MG-1 PART 5, IP54												
	1.15 SF ON SINE WAVE												

AC Induction Motor Performance Data

Record # 57539

Typical performance - not guaranteed values

Winding: 35WGM774-R087		Type: 3526M	Enclosure: XPFC
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	2//1.5	Full Load Torque	2.98 LB-FT
Volts	230/460//190/380	Start Configuration	direct on line
Full Load Amps	5/2.5//4.8/2.4	Breakdown Torque	14.2 LB-FT
R.P.M.	3490//2890	Pull-up Torque	6.33 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	11.2 LB-FT
NEMA Design Code	B KVA Code	Starting Current	25.9 A
Service Factor (S.F.)	1	No-load Current	0.912 A
NEMA Nom. Eff.	85.5 Power Factor	Line-line Res. @ 25°C	6.9119 Ω
Rating - Duty	50C AMB-CONT	Temp. Rise @ Rated Load	44°C
		Locked-rotor Power Factor	50
		Rotor inertia	0.0719 LB-FT2

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	55	75	84	88	90	91
Efficiency	74.3	83.5	85.9	86.4	85.9	84.8
Speed	3571.7	3546.5	3520.2	3492.1	3460.7	3425.5
Line amperes	1.1	1.47	1.93	2.44	3	3.61

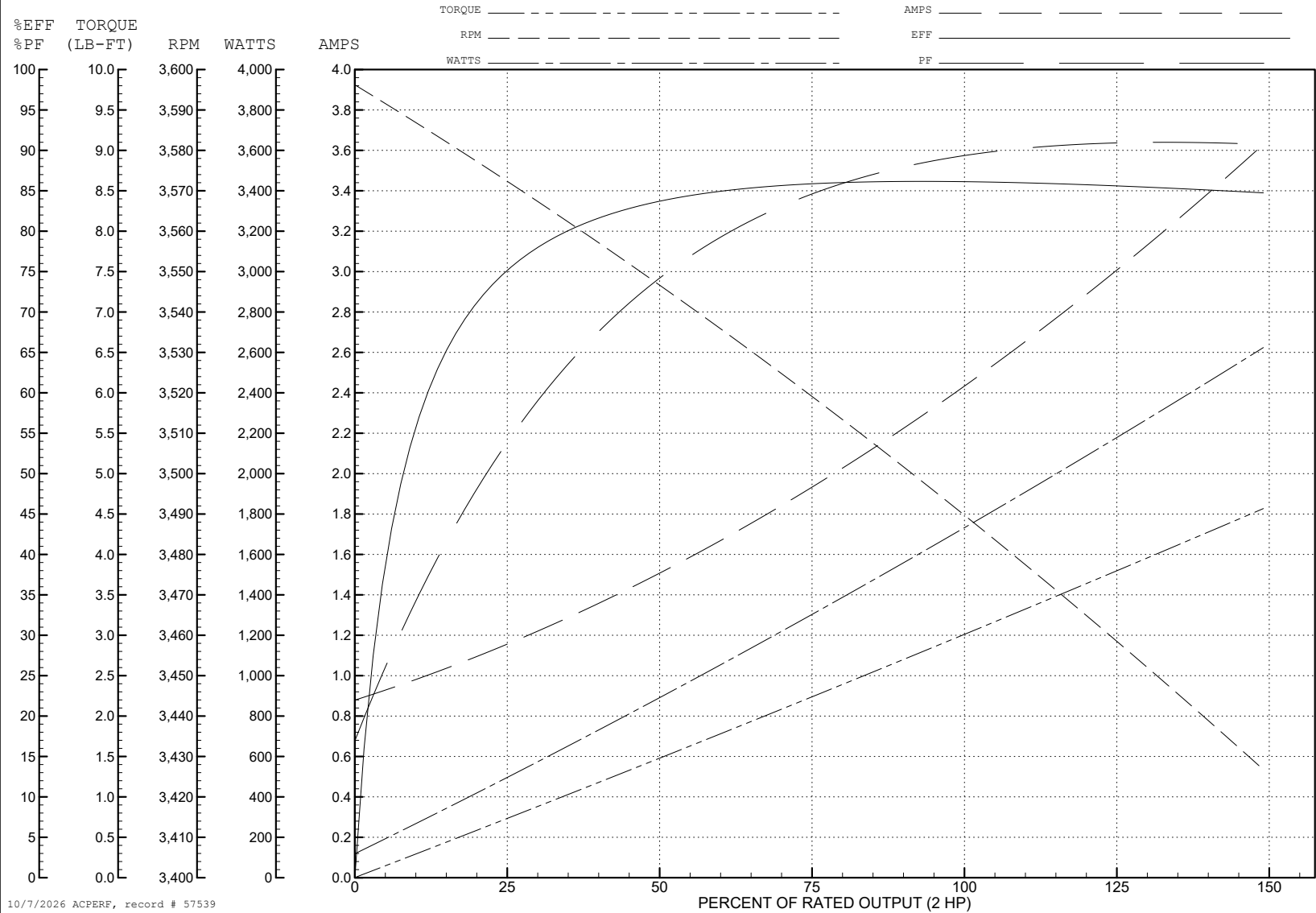
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WINDING # 35WGM774

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 3492.1 RPM 460 V 3526M

TORQUES (LB-FT): PO=14.2 PU=6.33 LR=11.2 LRA=25.9



AC Induction Motor Performance Data

Record # 57540

Typical performance - not guaranteed values

Winding: 35WGM774-R087		Type: 3526M	Enclosure: XPFC
Nameplate Data		380 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	2//1.5	Full Load Torque	2.69 LB-FT
Volts	230/460//190/380	Start Configuration	direct on line
Full Load Amps	5/2.5//4.8/2.4	Breakdown Torque	13.2 LB-FT
R.P.M.	3490//2890	Pull-up Torque	6.62 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	11.7 LB-FT
NEMA Design Code	B KVA Code	Starting Current	24.4 A
Service Factor (S.F.)	1	No-load Current	0.893 A
NEMA Nom. Eff.	85.5 Power Factor	Line-line Res. @ 25°C	6.86 Ω
Rating - Duty	50C AMB-CONT	Temp. Rise @ Rated Load	38°C
		Locked-rotor Power Factor	56
		Rotor inertia	0.0719 LB-FT2

Load Characteristics 380 V, 50 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	52	73	82	87	90	91
Efficiency	73.5	83.3	85.3	85.9	85.3	83.7
Speed	2974	2951	2927	2901	2872	2840
Line amperes	1.05	1.38	1.79	2.25	2.75	3.31

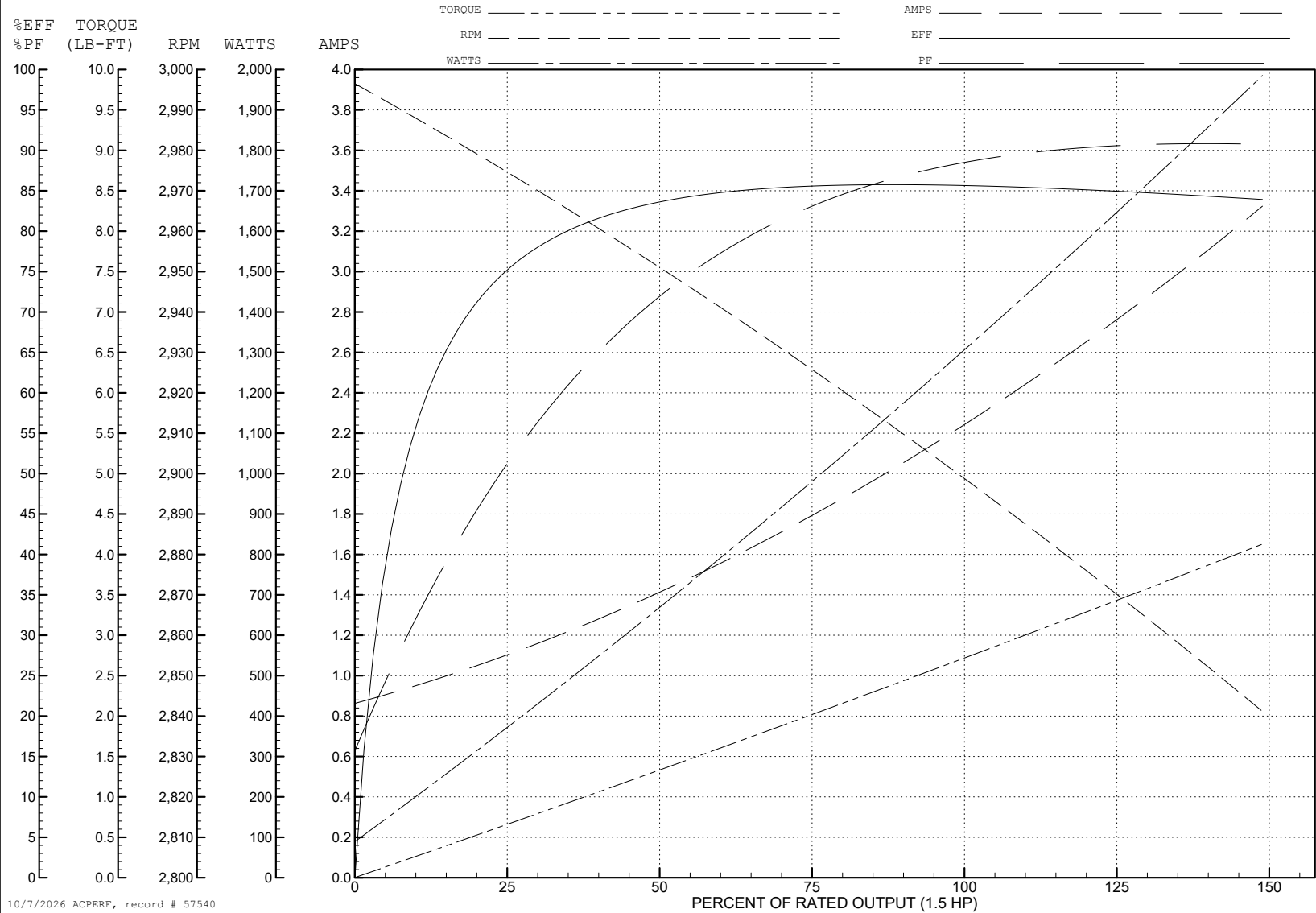
ABB Motors and Mechanical Inc.

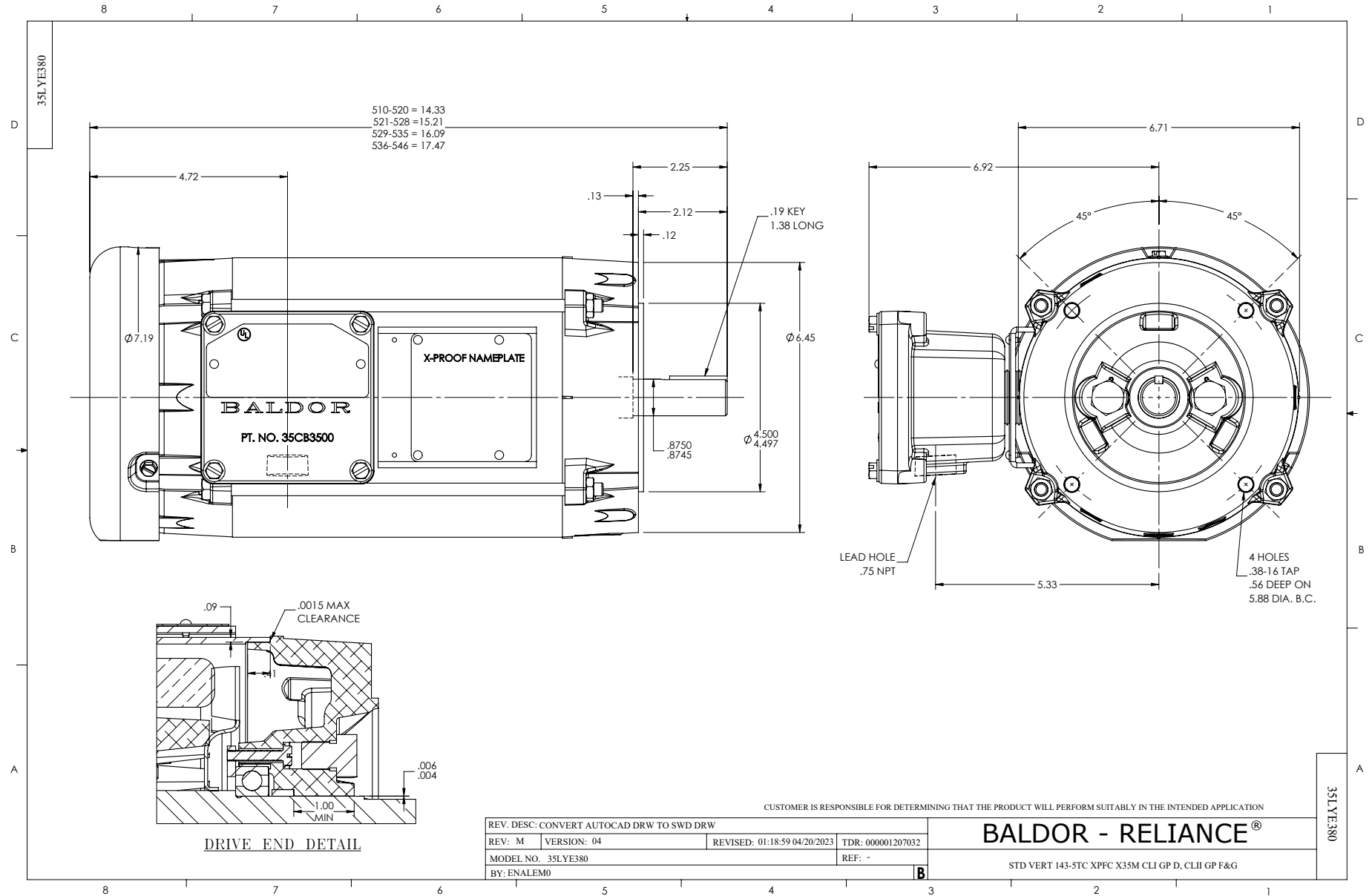
WINDING # 35WGM774

Typical performance - not guaranteed values.

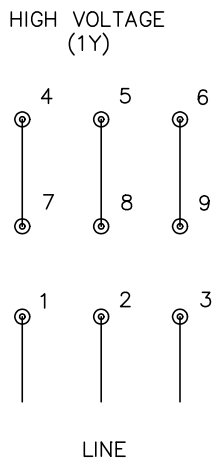
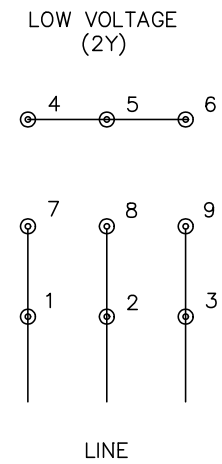
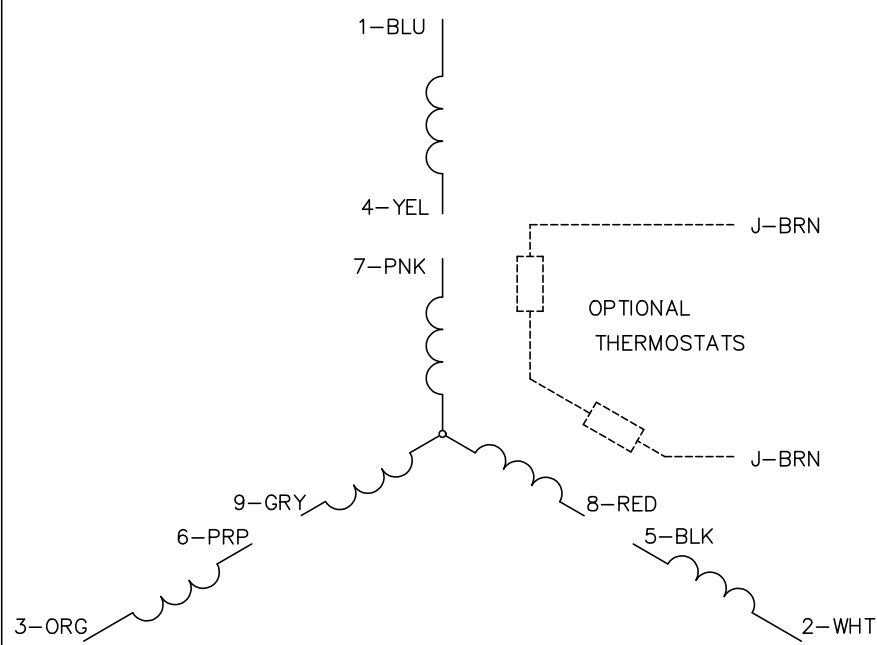
1.5 HP 3 PH 50 HZ 2901 RPM 380 V 3526M

TORQUES (LB-FT): PO=13.2 PU=6.62 LR=11.7 LRA=24.4





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			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005