ABB BALDOR RELIANCE

Customer information packet

VXM14222T

2//1.5HP, 3490//2890RPM, 3PH, 60//50HZ, 145T
Class - CLI GP D; CLII GP F,G
Division - Division I

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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

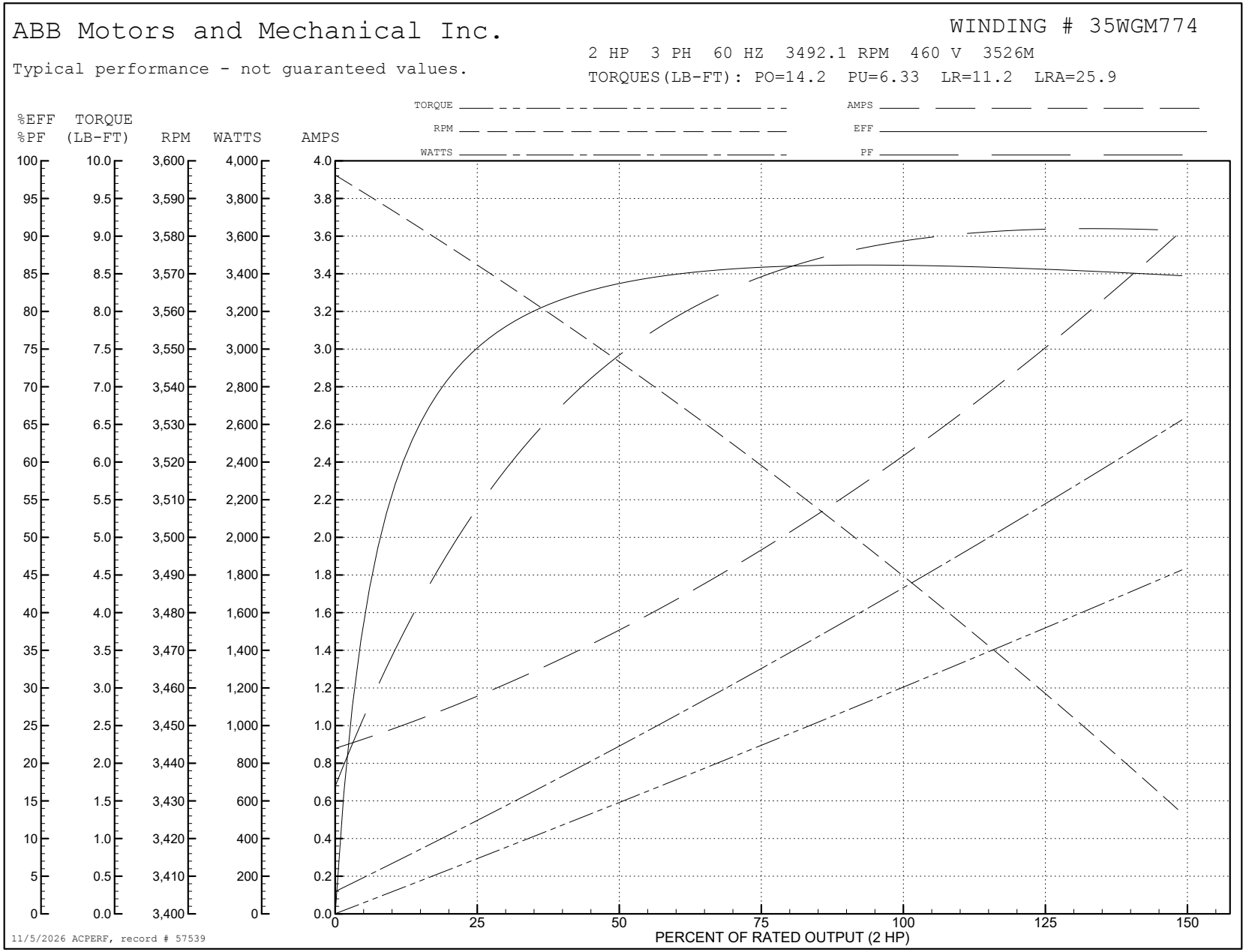
Winding: 35WGM774-R087	**Type:** 3526M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			2//1.5
Volts			230/460//190/380
Full Load Amps			5/2.5//4.8/2.4
R.P.M.			3490//2890
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	M
Service Factor (S.F.)			1
NEMA Nom. Eff.	85.5	**Power Factor**	88
Rating - Duty			50C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	2.98 LB-FT
Start Configuration	direct on line
Breakdown Torque	14.2 LB-FT
Pull-up Torque	6.33 LB-FT
Locked-rotor Torque	11.2 LB-FT
Starting Current	25.9 A
No-load Current	0.912 A
Line-line Res. @ 25ºC	6.9119 Ω
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


ABB Motors and Mechanical Inc.
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
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0
10.0 9.5 9.0 8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0
3,600 3,590 3,580 3,570 3,560 3,550 3,540 3,530 3,520 3,510 3,500 3,490 3,480 3,470 3,460 3,450 3,440 3,430 3,420 3,410 3,400
4,000 3,800 3,600 3,400 3,200 3,000 2,800 2,600 2,400 2,200 2,000 1,800 1,600 1,400 1,200 1,000 800 600 400 200 0
4.0 3.8 3.6 3.4 3.2 3.0 2.8 2.6 2.4 2.2 2.0 1.8 1.6 1.4 1.2 1.0 0.8 0.6 0.4 0.2 0.0
0 25 50 75 100 125 150
PERCENT OF RATED OUTPUT (2 HP)
11/5/2026 ACPERF, record # 57539

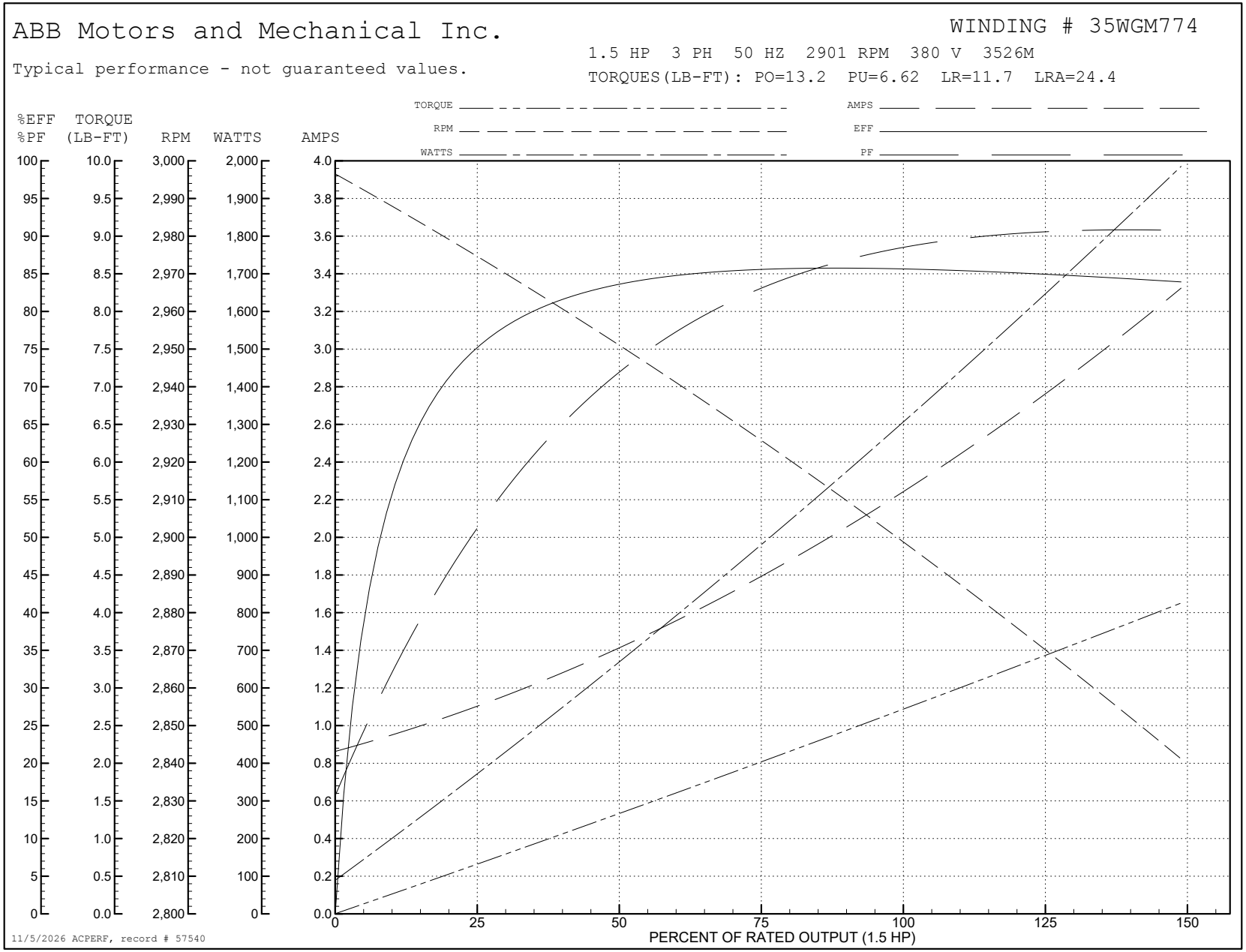
AC Induction Motor Performance Data
Record # 57540
Typical performance - not guaranteed values

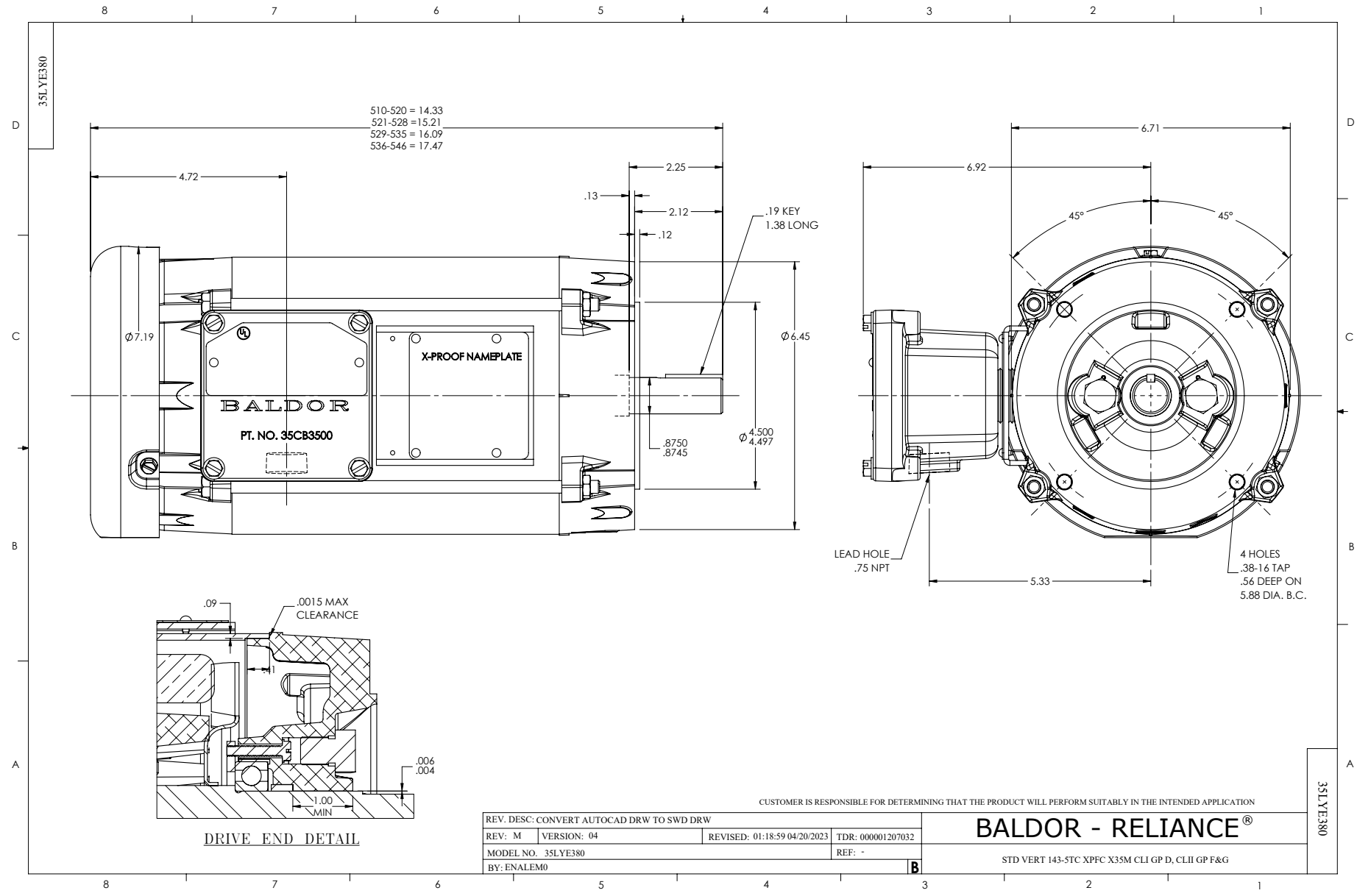
Winding: 35WGM774-R087	**Type:** 3526M	**Enclosure:** XPFC

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**	3	**Locked-rotor Torque**	11.7 LB-FT
NEMA Design Code	B	**KVA Code**	M	**Starting Current**	24.4 A
Service Factor (S.F.)			1	**No-load Current**	0.893 A
NEMA Nom. Eff.	85.5	**Power Factor**	88	**Line-line Res. @ 25ºC**	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

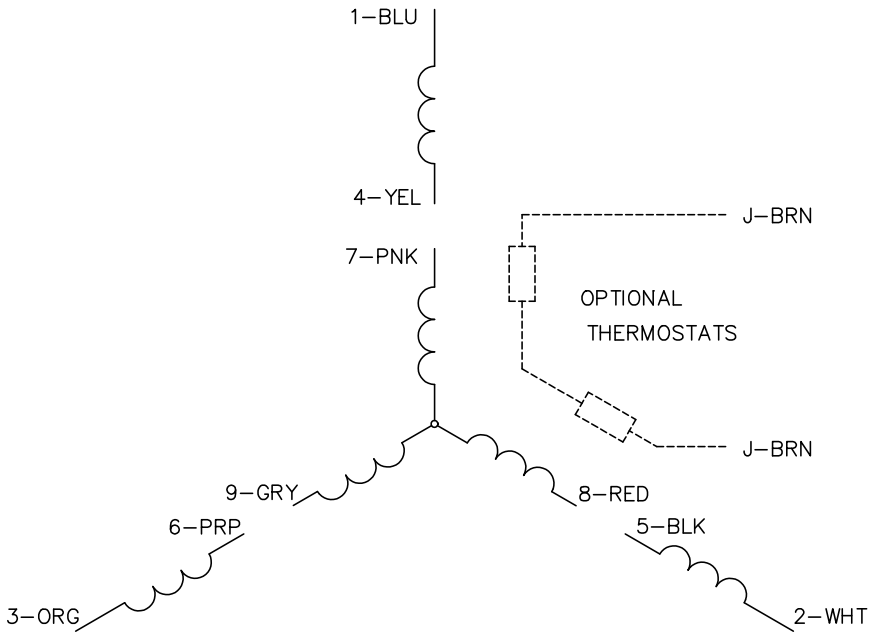
Load Characteristics 380 V, 50 Hz, 1.5 HP

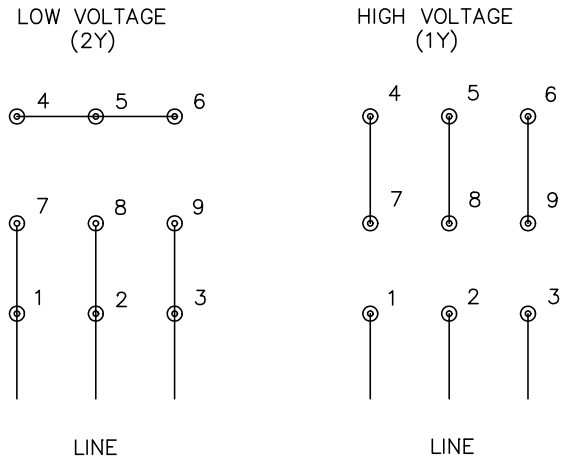
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	52	73	82	87	90	91
Efficiency	73.5	83.3	85.3	85.9	85.3	83.7
Speed	2974	2951	2927	2901	2872	2840
Line amperes	1.05	1.38	1.79	2.25	2.75	3.31


ABB Motors and Mechanical Inc.
WINDING # 35WGM774
1.5 HP 3 PH 50 HZ 2901 RPM 380 V 3526M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=13.2 PU=6.62 LR=11.7 LRA=24.4
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1.5 HP)
11/5/2026 ACPERF, record # 57540


35LYE380
510-520 = 14.33
521-528 =15.21
529-535 = 16.09
536-546 = 17.47
4.72
2.25
.13
2.12
.12
.19 KEY
1.38 LONG
Ø7.19
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø6.45
Ø4.500
4.497
.8750
.8745
6.71
6.92
45°
45°
LEAD HOLE
.75 NPT
5.33
4 HOLES
.38-16 TAP
.56 DEEP ON
5.88 DIA. B.C.
.09
.0015 MAX
CLEARANCE
.006
.004
1.00
MIN
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: M
VERSION: 04
REVISED: 01:18:59 04/20/2023
TDR: 000001207032
MODEL NO. 35LYE380
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD VERT 143-5TC XPFC X35M CLI GP D, CLII GP F&G
35LYE380

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