ABB BALDOR RELIANCE

Customer information packet

CXM18522T

5//3HP, 3450//2900RPM, 3PH, 60//50HZ, 184TC
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	184TC
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	3.000 HP @ 50 HZ
	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ
	230.0 V @ 60 HZ
	190.0 V @ 50 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	UL
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
Constant Torque Speed Range	6
Current @ Voltage	8.800 A @ 190.0 V
	5.900 A @ 460.0 V
	4.400 A @ 380.0 V
	12.000 A @ 208.0 V
	11.800 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover

Part Detail

Revision	-
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	36WGS042
Layout	36LYK919
Eff. date	02-23-2021
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	02-17-2021

Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Frame Prefix	RL
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	4.4 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3630M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	18.86 IN
Power Factor	91
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3450 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.	36-0000-0467			**INV.TYPE**	PWM						
CAT.NO.	CXM18522T			**C HP FR**	60	**C HP TO**	90				
HP	5//3			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	11.8/5.9//8.8/4.4		**MAG CUR**	3.4/1.7							
RPM	3450//2900		**MX RPM**	5400							
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	88.5				
SER.F.	1.00	**DES**	A	**SL HZ**	2.3	**WK2**	0.14				
FRAME	184TC	**RATING**	40C AMB-CONT								
	NEMA MG-1 PART 5, IP54										
	1.15 SF ON SINE WAVE										

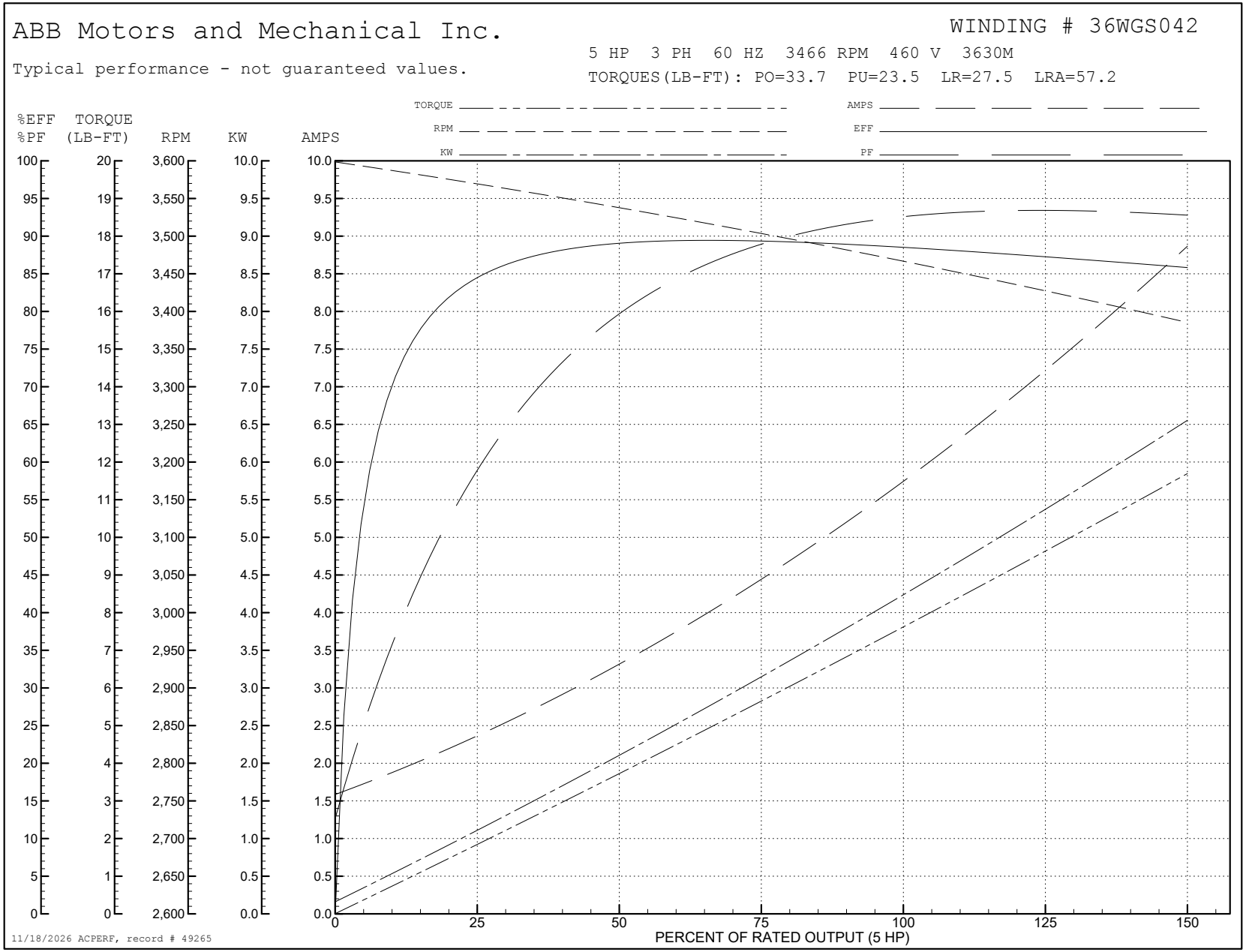
AC Induction Motor Performance Data
Record # 49265
Typical performance - not guaranteed values

Winding: 36WGS042-R049	**Type:** 3630M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5//3	**Full Load Torque**	7.67 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			11.8/5.9//9/4.5	**Breakdown Torque**	33.7 LB-FT
R.P.M.			3450//2900	**Pull-up Torque**	23.5 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	27.5 LB-FT
NEMA Design Code	A	**KVA Code**	L	**Starting Current**	57.2 A
Service Factor (S.F.)			1.15	**No-load Current**	1.68 A
NEMA Nom. Eff.	88.5	**Power Factor**	91	**Line-line Res. @ 25ºC**	2.26 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	72°C
S.F. Amps				**Temp. Rise @ S.F. Load**	88°C
				Locked-rotor Power Factor	45.1
				Rotor inertia	0.134 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	62	81	88	91	93	94	92
Efficiency	84.1	88.9	89.4	88.7	87.3	85.8	87.9
Speed	3569	3537	3504	3466	3428	3385	3443
Line amperes	2.24	3.26	4.47	5.85	7.26	8.8	6.7


ABB Motors and Mechanical Inc.
WINDING # 36WGS042
5 HP 3 PH 60 HZ 3466 RPM 460 V 3630M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=33.7 PU=23.5 LR=27.5 LRA=57.2
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (5 HP)
11/18/2026 ACPERF, record # 49265

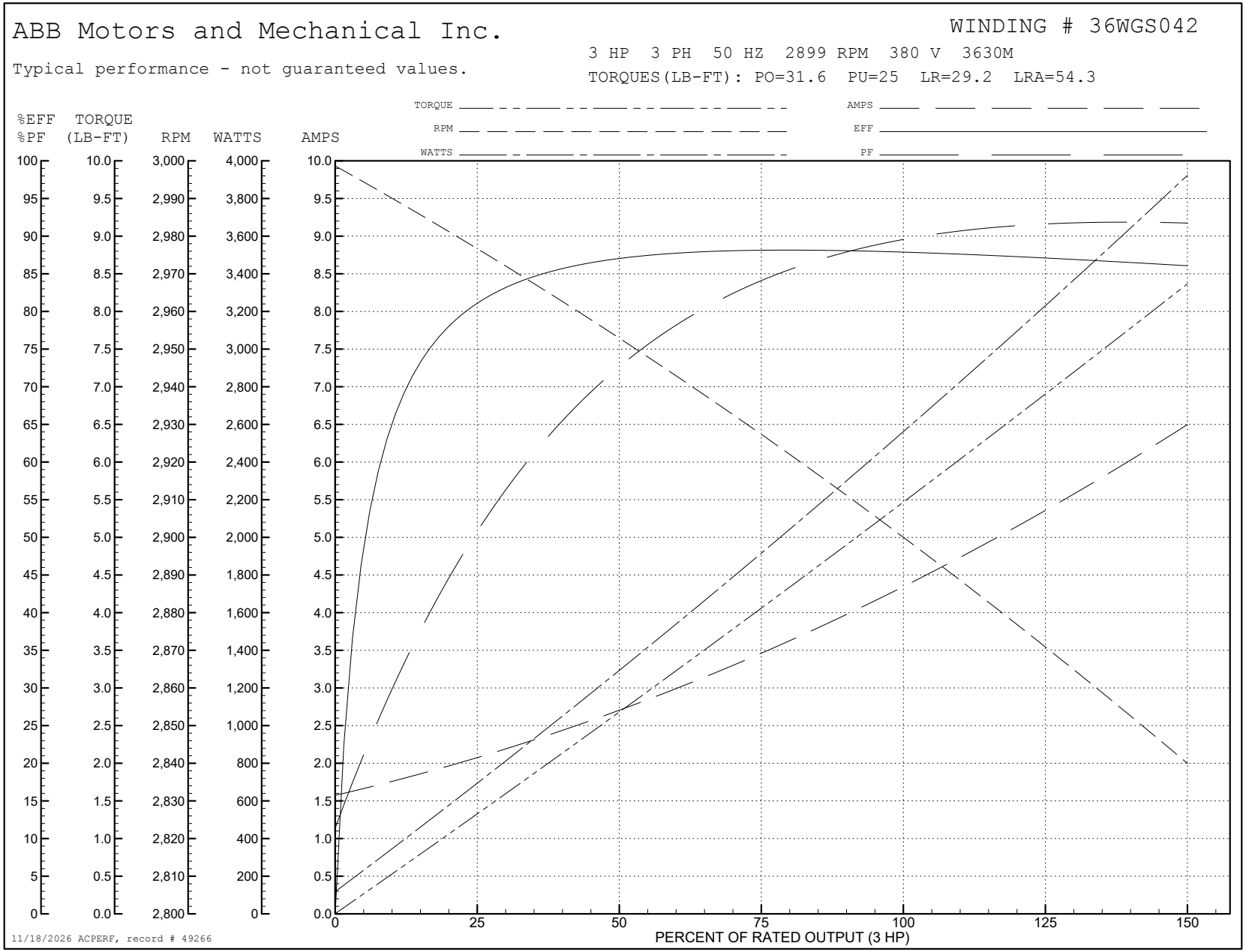
AC Induction Motor Performance Data
Record # 49266
Typical performance - not guaranteed values

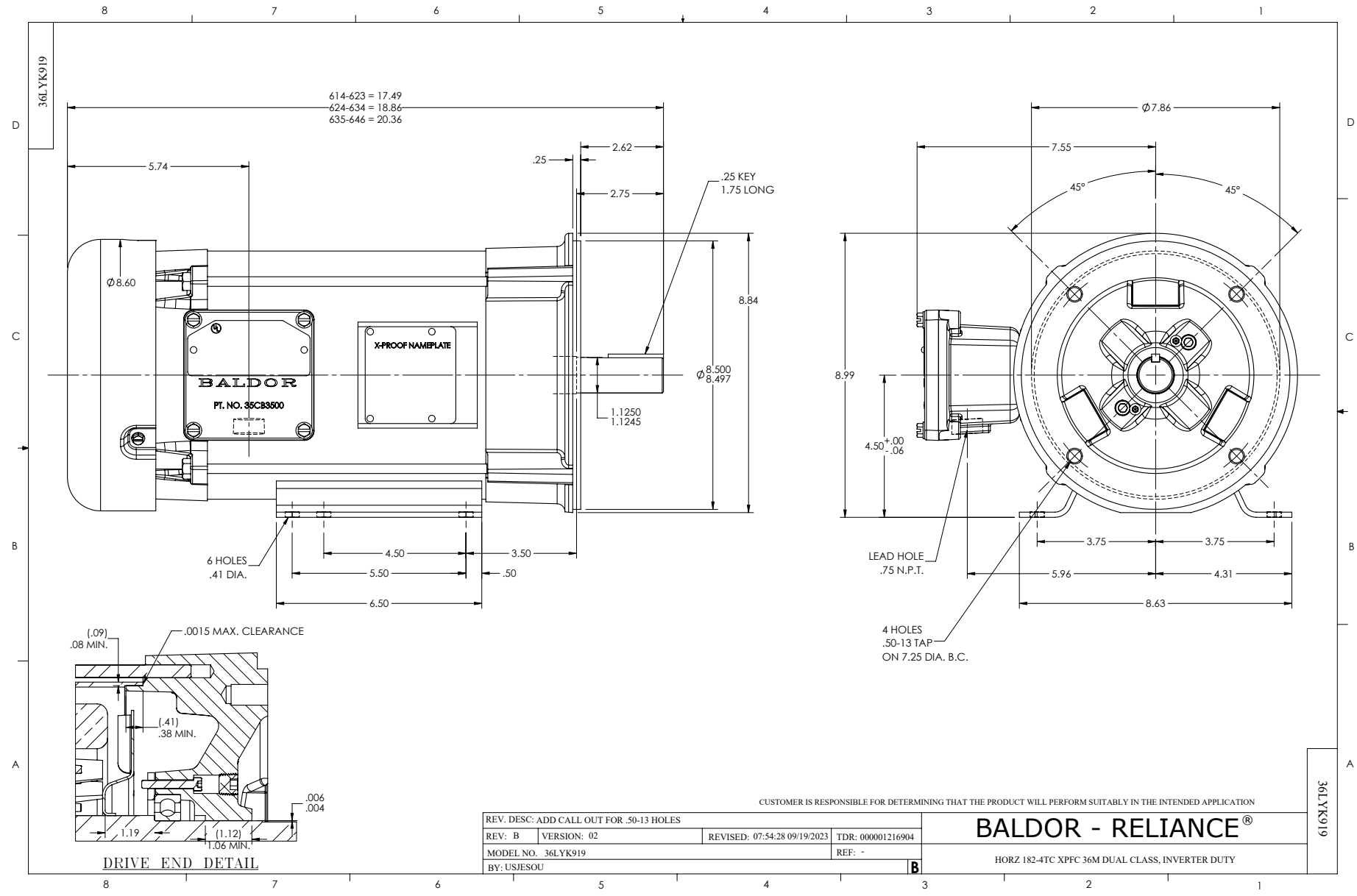
Winding: 36WGS042-R049	**Type:** 3630M	**Enclosure:** TEFC

Nameplate Data				**380 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			5//3	**Full Load Torque**	5.5 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			11.8/5.9//8.8/4.4	**Breakdown Torque**	31.6 LB-FT
R.P.M.			3450//2900	**Pull-up Torque**	25 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	29.2 LB-FT
NEMA Design Code	A	**KVA Code**	L	**Starting Current**	54.3 A
Service Factor (S.F.)			1.15	**No-load Current**	1.64 A
NEMA Nom. Eff.	88.5	**Power Factor**	91	**Line-line Res. @ 25ºC**	2.26 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	48°C
S.F. Amps				**Temp. Rise @ S.F. Load**	58°C
				Locked-rotor Power Factor	51.3
				Rotor inertia	0.134 LB-FT2

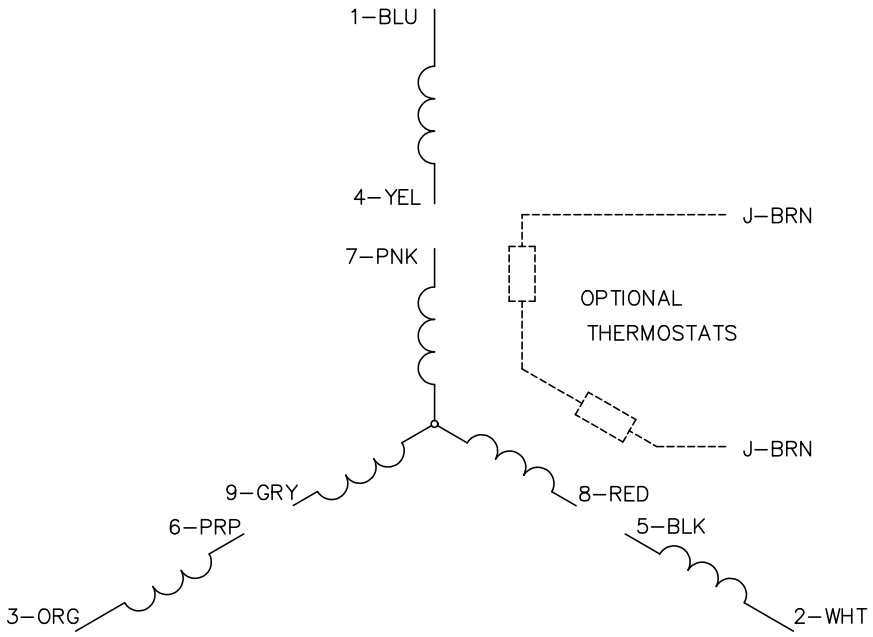
Load Characteristics 380 V, 50 Hz, 3 HP

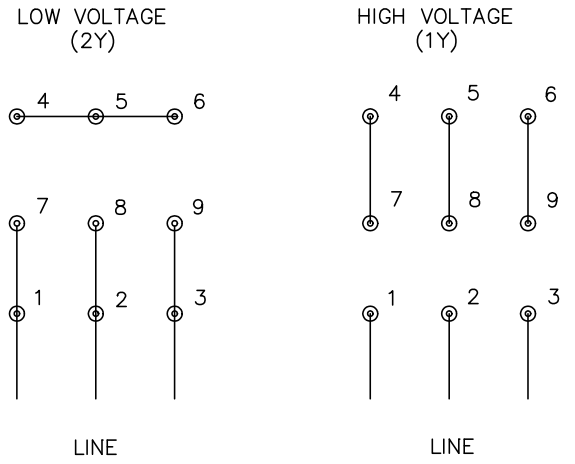
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	53	74	84	88	91	92	90
Efficiency	80.5	86.8	88.3	88.1	87.1	86.1	87.5
Speed	2976	2953	2928	2899	2871	2840	2882
Line amperes	1.99	2.66	3.48	4.42	5.39	6.45	5


ABB Motors and Mechanical Inc.
WINDING # 36WGS042
Typical performance - not guaranteed values.
3 HP 3 PH 50 HZ 2899 RPM 380 V 3630M
TORQUES(LB-FT): PO=31.6 PU=25 LR=29.2 LRA=54.3
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (3 HP)
11/18/2026 ACPERF, record # 49266


36LYK919
614-623 = 17.49
624-634 = 18.86
635-646 = 20.36
5.74
.25
2.62
2.75
.25 KEY
1.75 LONG
Ø8.60
8.84
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø8.500
8.497
1.1250
1.1245
6 HOLES
.41 DIA.
4.50
3.50
5.50
.50
6.50
Ø7.86
7.55
45°
45°
8.99
4.50 +.00 -.06
3.75
3.75
LEAD HOLE
.75 N.P.T.
5.96
4.31
8.63
4 HOLES
.50-13 TAP
ON 7.25 DIA. B.C.
(.09)
.08 MIN.
.0015 MAX. CLEARANCE
(.41)
.38 MIN.
.006
.004
1.19
(1.12)
1.06 MIN.
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD CALL OUT FOR .50-13 HOLES
REV: B
VERSION: 02
REVISED: 07:54:28 09/19/2023
TDR: 000001216904
MODEL NO. 36LYK919
REF: -
BY: USJESOU
B
BALDOR - RELIANCE®
HORZ 182-4TC XPFC 36M DUAL CLASS, INVERTER DUTY
36LYK919

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