

ABB BALDOR RELIANCE III

Customer information packet

CXM18522T

5//3HP, 3450//2900RPM, 3PH, 60//50HZ, 184TC

Class - CLI GP D; CLII GP F,G

Division - Division I

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												

Parts List

Part number	Description	Quantity
SA391080	SA 36-0000-0467	1.000 ea
RA381549	RA 36-0000-0467	1.000 ea
LC0145B01	CONNECTION LABEL	1.000 ea
NP0887XPSLEV	SS XP INV UL CSA-EEV CC CL-I GP-D	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
NP0018F	ALUM UL XP CONDUIT BOX NAMEPLATE	1.000 ea
36FH4009A70	IEC FH W/(2)GREASER HOLES, W/ PRIMER	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
36FN3000C01SP	EXFN, PLASTIC, 5.25 OD, .912 ID	1.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
HA3105A06	THRUBOLT- 3/8-16 X 10.500 X	4.000 ea
WD4100A03	DE-750 HEYCO PLUG 62MP0750 MICRO PLASTIC	2.000 ea
36EP3700A01	FR ENDPLATE, MACH	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	2.000 ea
36EP1703A01	PU ENDPLATE, MACH	1.000 ea
84XN1032J20	SCREW, SOC 10-32 X 1 1/4"BMH4602	2.000 ea
HW4001A01	1/4 HX SOC PIPE PLG (F/S) ALLOY STEEL W/	2.000 ea
63XN1032A07	10-32 X 7/16 TRUSS HEAD,TORX SERRATED ZN	2.000 ea
HW3022E05	.125 DIA X .500 ROLLED SPRING PIN	1.000 ea
35CB3001A02SP	EXPL PROOF CONDUIT BOX, 3/4"PIPE TAP LEA	1.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
35CB3500A01SP	CONDUIT BOX LID, MACH	1.000 ea
51XN2520A16	SCREW, HEX WS SLT, ZN, 1/4-20 X 1.00	4.000 ea
MG1500Y02	WILKOPON PRIMER YELLOW	0.022 ga
MG1025G29	WILKOFAS, 789.229, DARK CHARCOAL GRAY	0.022 ga
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea

HW2501E19	STD SQUARE KEY .25 SQUARE X 2.125 LONG	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

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	
NEMA Design Code		A		KVA Code		L	
Service Factor (S.F.)		1.15		Starting Current		57.2 A	
NEMA Nom. Eff.		88.5		Power Factor		91	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps						Temp. Rise @ S.F. Load	
						Locked-rotor Power Factor	
						Rotor inertia	

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

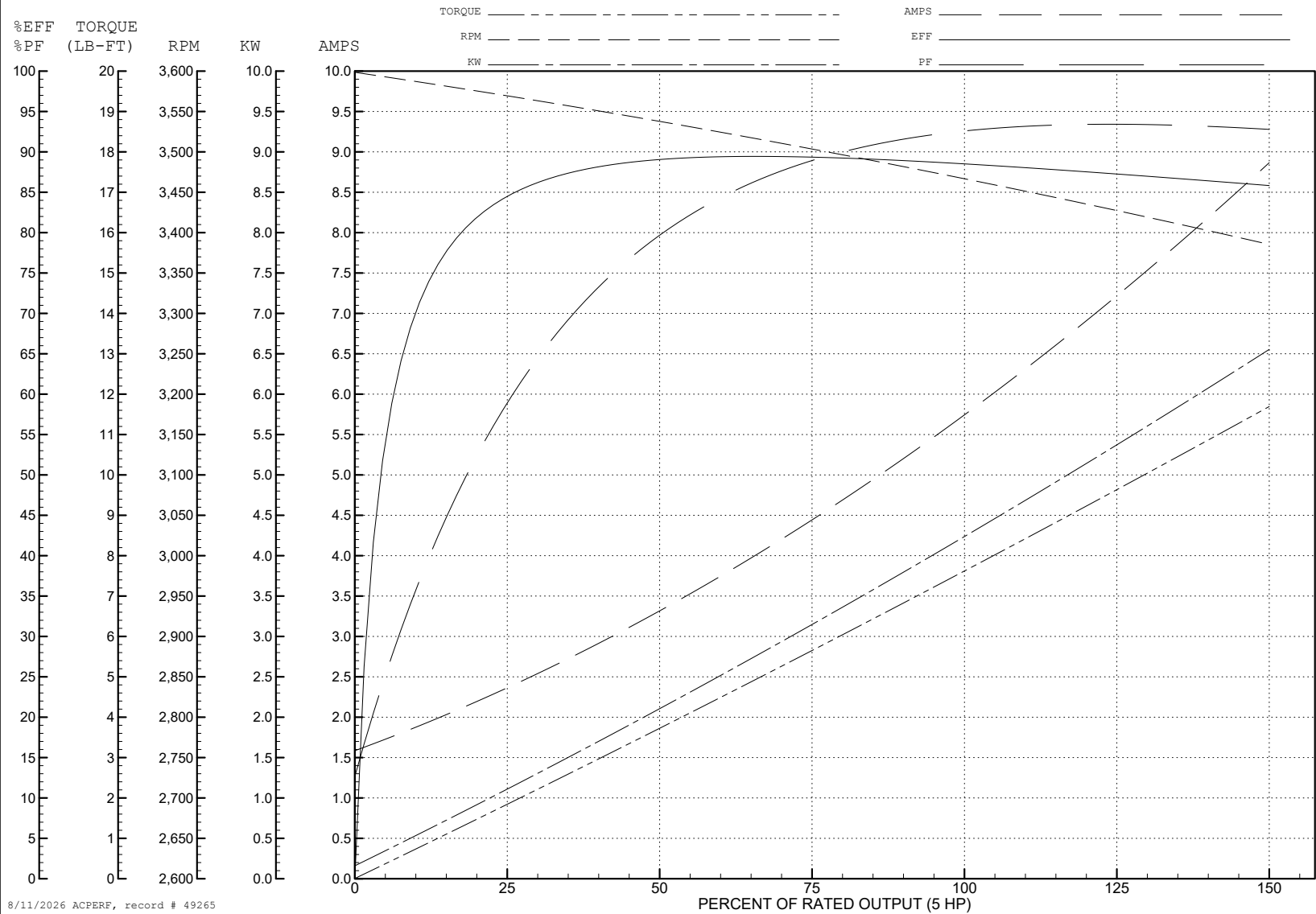
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WINDING # 36WGS042

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 3466 RPM 460 V 3630M

TORQUES (LB-FT): PO=33.7 PU=23.5 LR=27.5 LRA=57.2



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	Locked-rotor Torque	29.2 LB-FT
NEMA Design Code	A KVA Code	Starting Current	54.3 A
Service Factor (S.F.)	1.15	No-load Current	1.64 A
NEMA Nom. Eff.	88.5 Power Factor	Line-line Res. @ 25°C	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-FT ²

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

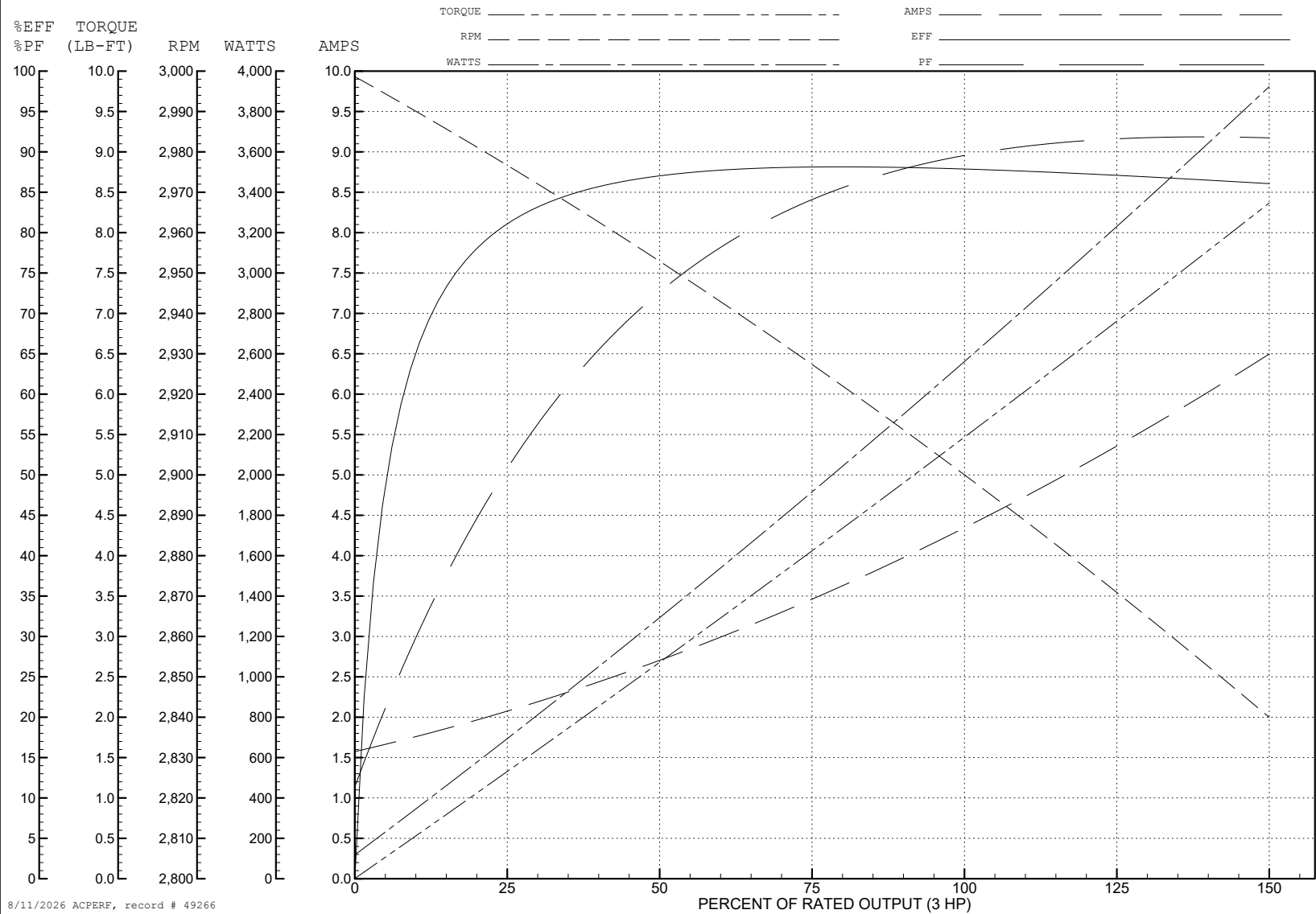
ABB Motors and Mechanical Inc.

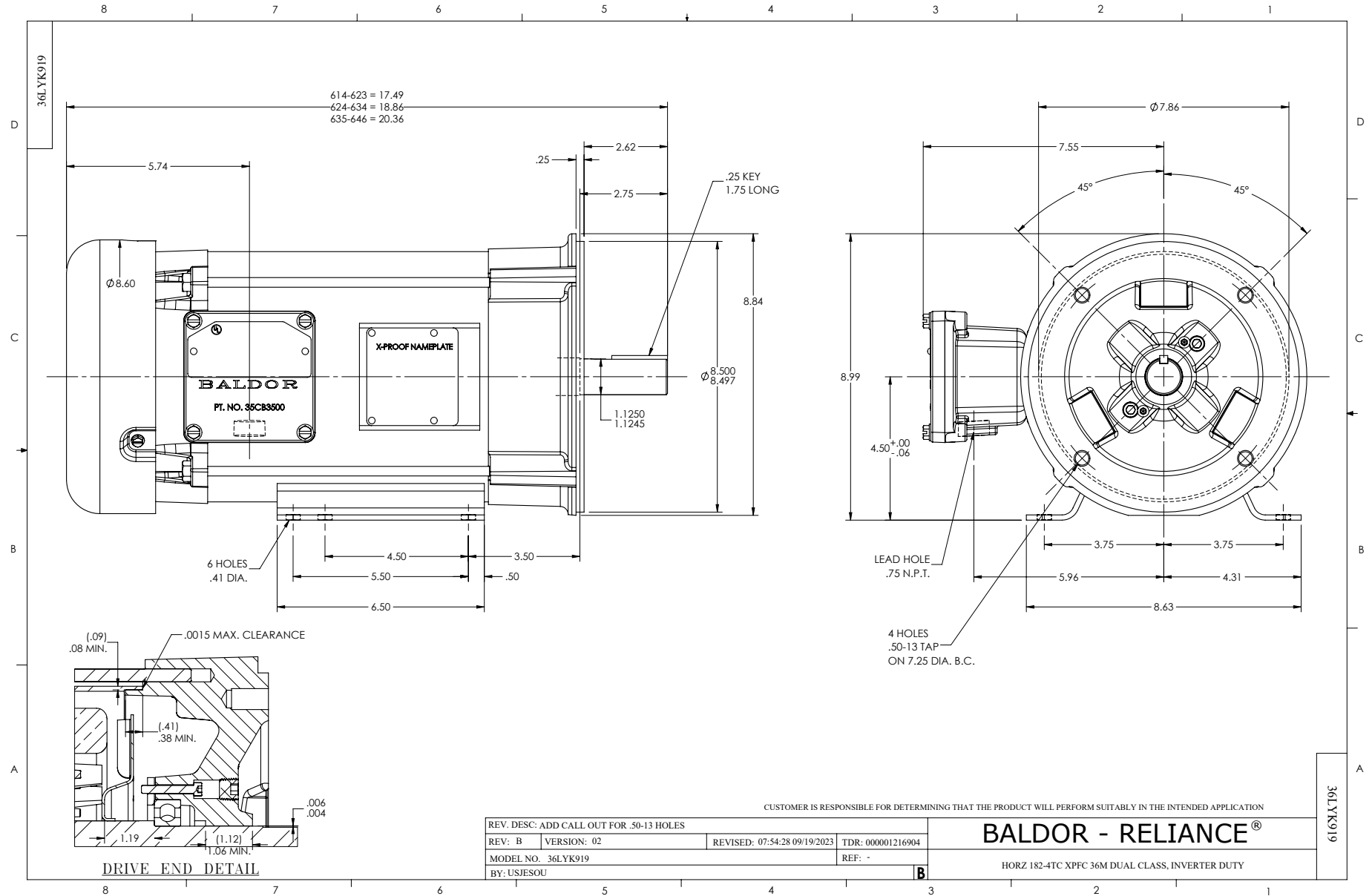
WINDING # 36WGS042

Typical performance - not guaranteed values.

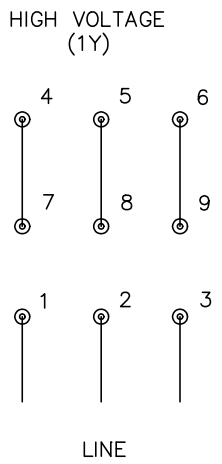
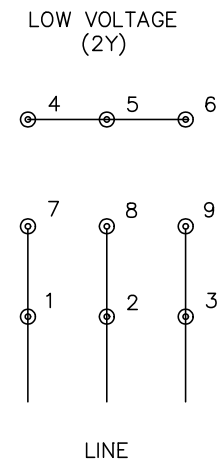
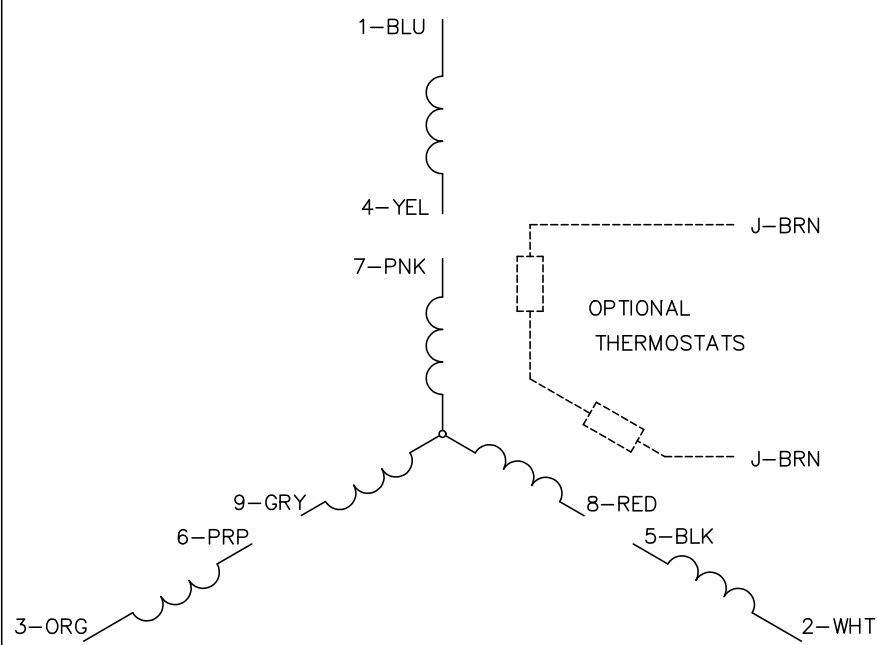
3 HP 3 PH 50 HZ 2899 RPM 380 V 3630M

TORQUES (LB-FT): PO=31.6 PU=25 LR=29.2 LRA=54.3





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
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005