

ABB BALDOR RELIANCE III

Customer information packet

M1761T

15/3.75HP, 1760/880RPM, 3PH, 60HZ, 254T

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	254T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	3.750 HP @ 60 HZ 15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	UR CSA
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	19.600 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	8.3 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	AT
Type	AC
Mech. spec.	09C101
Base	
Status	PRD/A
Elec. spec.	09WGX185
Layout	09LYC101
Eff. date	10-07-2024
CD Diagram	CD0032
Poles	04/08
Leads	6#12
Proprietary	False
Created date	01-01-0001

KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0934M
Mounting Arrangement	F1
Number of Poles	4
	8
Overall Length	23.28 IN
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1760 rpm
	880 rpm
Speed Code	2S-1W-VT
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

NP1256L									
CAT.NO.	M1761T								
SPEC.	09C101X185								
HP	15/3.75								
VOLTS	460								
AMP	19.6/8.3								
RPM	1760/880								
FRAME	254T		HZ	60			PH	3	
SER.F.	1.15	CODE	G	DES	B	CLASS	F		
NEMA-NOM-EFF		PF							
RATING	40C AMB-CONT								
CC									
DE	6309		ODE	6208					
ENCL	TEFC	SN							

Parts List

Part number	Description	Quantity
SA011432	SA 09C101X185	1.000 ea
RA007632	RA 09C101X185	1.000 ea
HW1002A63	WASHER, 5/8 HI-COLLAR SPRLCKWASHER	1.000 ea
09GS1000	GASKET-CONDUIT BOX, 1/16 THICK LEXIDE	1.000 ea
09CB3003	CB W/1.75" DIA LD HL - 37, 39, 307 & 309	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 ea
09EP1101A136	PU ENDPLATE, MACH	1.000 ea
10XN3816K28	3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5	4.000 ea
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	1.000 ea
59XW2520G07	.25-20X.44,HEX SER WSHR,TAPTITE 2,GREEN	1.000 ea
HW4500A05	1669B ALEM/UNIV860 GR FTG X	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
09EP1100A208	ENDPLATE, MACH	1.000 ea
HA3400A33	STUD- 3/8-16 X 4.96 HEX	4.000 ea
HW4600B44	V-RING SLINGER 1.500 X 1.810 X .28 VITON	1.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
XY3816A12	3/8-16 FINISHED NUT W/SERRATIONS	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 ea
10XN2520K36	1/4-20 X 2.25" HX HD SCRWGRADE 5, ZINC P	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
09FH4000SP	309 FH - BLACK PRIMER	1.000 ea
09CB3501SP	CONDUIT BOX LID FOR 09CB3001 & 09CB3002	1.000 ea
09GS1013SP	GS FOR 09CB3501, 12CB1500 & 12CB1503 LID	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
HW2501G25	KEY, 3/8 SQ X 2.875	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LD7020D06	LEAD SET, 12AWG, 6 LEAD, 20" LONG LEADS	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea

HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HA4066A01	PUSH IN T-DRAIN FITTING (BLACK)	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.070 ga
HA4066A01	PUSH IN T-DRAIN FITTING (BLACK)	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.080 lb
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
09FN3001A01SP	EXTERNAL FAN, PLASTIC (COMES W/SCREW FRO	1.000 ea
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0032	CONNECTION LABEL	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
09PA1000	PACKAGING GROUP COMBINED PRINT	1.000 ea
PE-0000003	ZRTG PE ASSEMBLY	1.000 ea
FE-0000013	ZRTG FE ASSEMBLY	1.000 ea

Accessories

Part number	Description	Multiplier
09-1309	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 36429

Typical performance - not guaranteed values

Winding: 09WGX185-R004			Type: 0934M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Speed Connection			
Rated Output (HP)		15/3.75		Full Load Torque		44.5 LB-FT	
Volts		460		Start Configuration		direct on line	
Full Load Amps		19.6/8.3		Breakdown Torque		144 LB-FT	
R.P.M.		1760/880		Pull-up Torque		46 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		82.5 LB-FT	
NEMA Design Code		B	KVA Code	G	Starting Current		116 A
Service Factor (S.F.)		1.15		No-load Current		9.29 A	
NEMA Nom. Eff.		0	Power Factor	0	Line-line Res. @ 25°C		0.852 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		84°C	
S.F. Amps				Temp. Rise @ S.F. Load		99°C	

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	64	76	82	85	87	84
Efficiency	82	88.2	89.8	90.1	89.7	89	89.9
Speed	1793	1786	1779	1771	1763	1754	1766
Line amperes	10.2	12.4	15.5	19.6	23	27.2	21.6

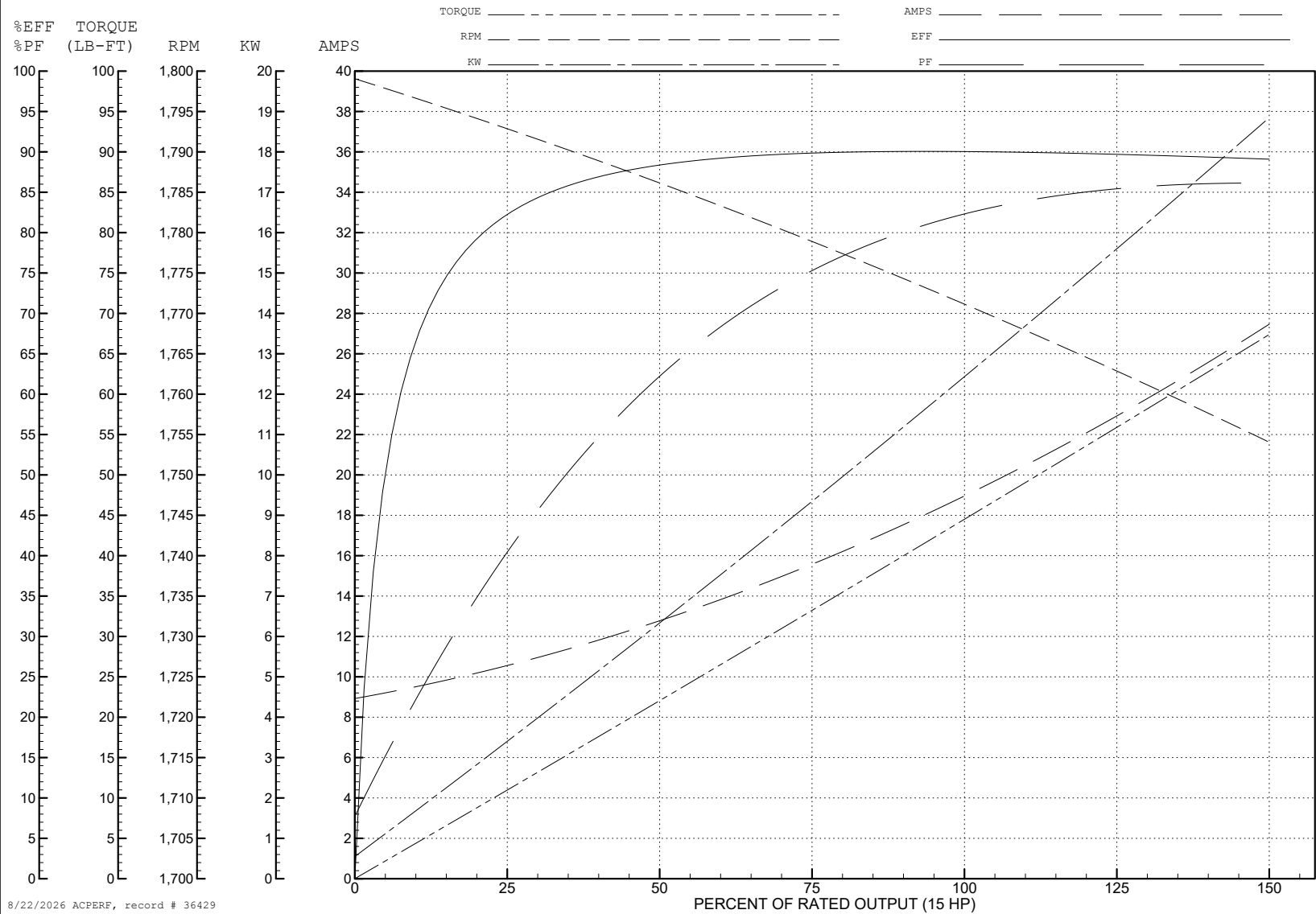
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WINDING # 09WGX185

Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 1771 RPM 460 V 0934M

TORQUES (LB-FT): PO=144 PU=46 LR=82.5 LRA=116



AC Induction Motor Performance Data

Record # 36430

Typical performance - not guaranteed values

Winding: 09WGX185-R004			Type: 0934M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: Low Speed Connection		
Rated Output (HP)		15/3.75		Full Load Torque		22.2 LB-FT
Volts		460		Start Configuration		direct on line
Full Load Amps		19.6/8.3		Breakdown Torque		75.1 LB-FT
R.P.M.		1760/880		Pull-up Torque		25 LB-FT
Hz	60	Phase	3	Locked-rotor Torque		49.8 LB-FT
NEMA Design Code		B	KVA Code	Starting Current		34.2 A
Service Factor (S.F.)		1.15		No-load Current		7.09 A
NEMA Nom. Eff.		0	Power Factor	Line-line Res. @ 25°C		3.41 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		47°C
S.F. Amps				Temp. Rise @ S.F. Load		52°C

Load Characteristics 460 V, 60 Hz, 3.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	20	32	42	51	58	63	55
Efficiency	62.1	75.3	80.2	82.4	83.3	83.4	82.9
Speed	896	893	889	885	881	877	883
Line amperes	7.16	7.41	7.81	8.3	9.1	9.95	8.81

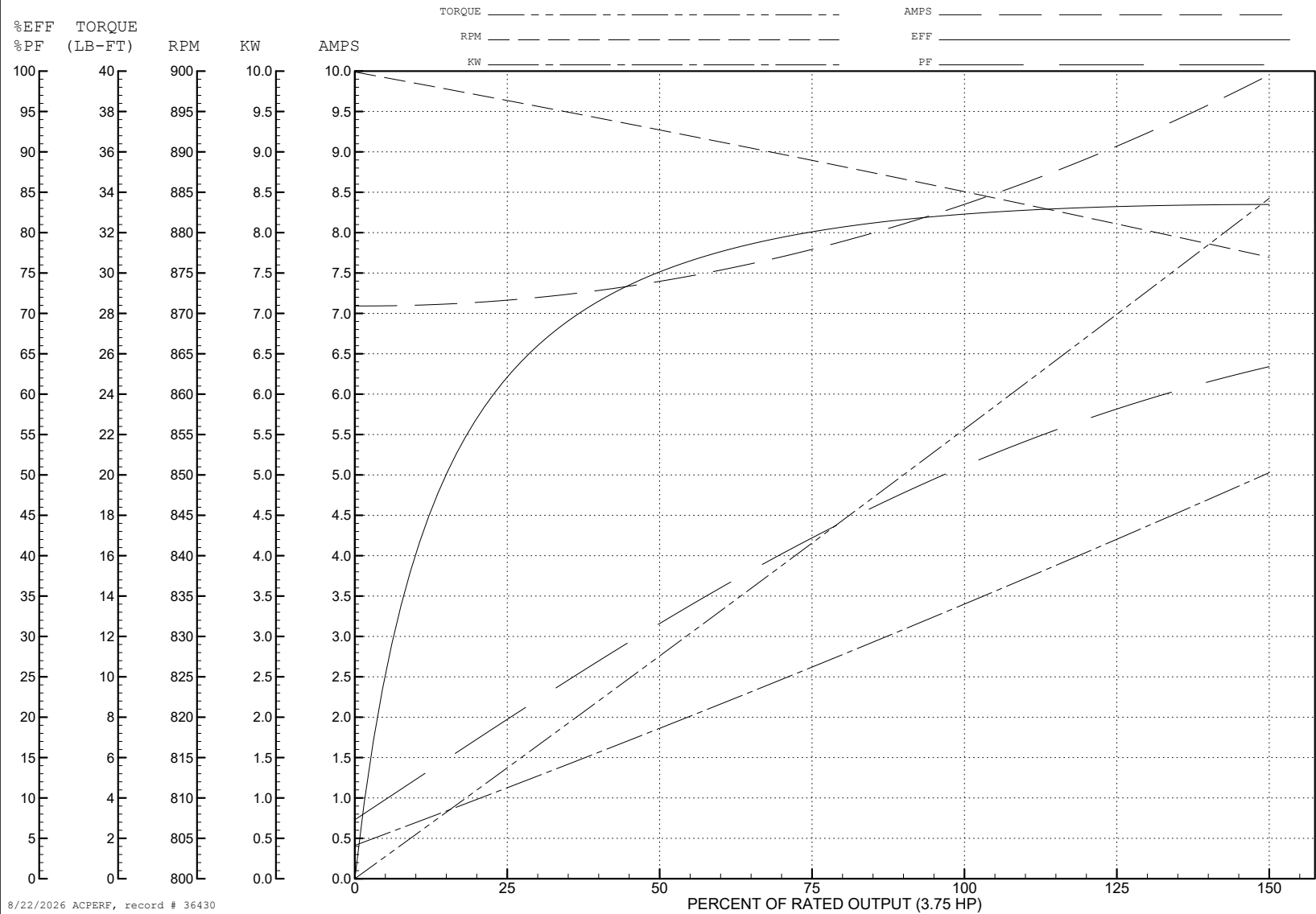
ABB Motors and Mechanical Inc.

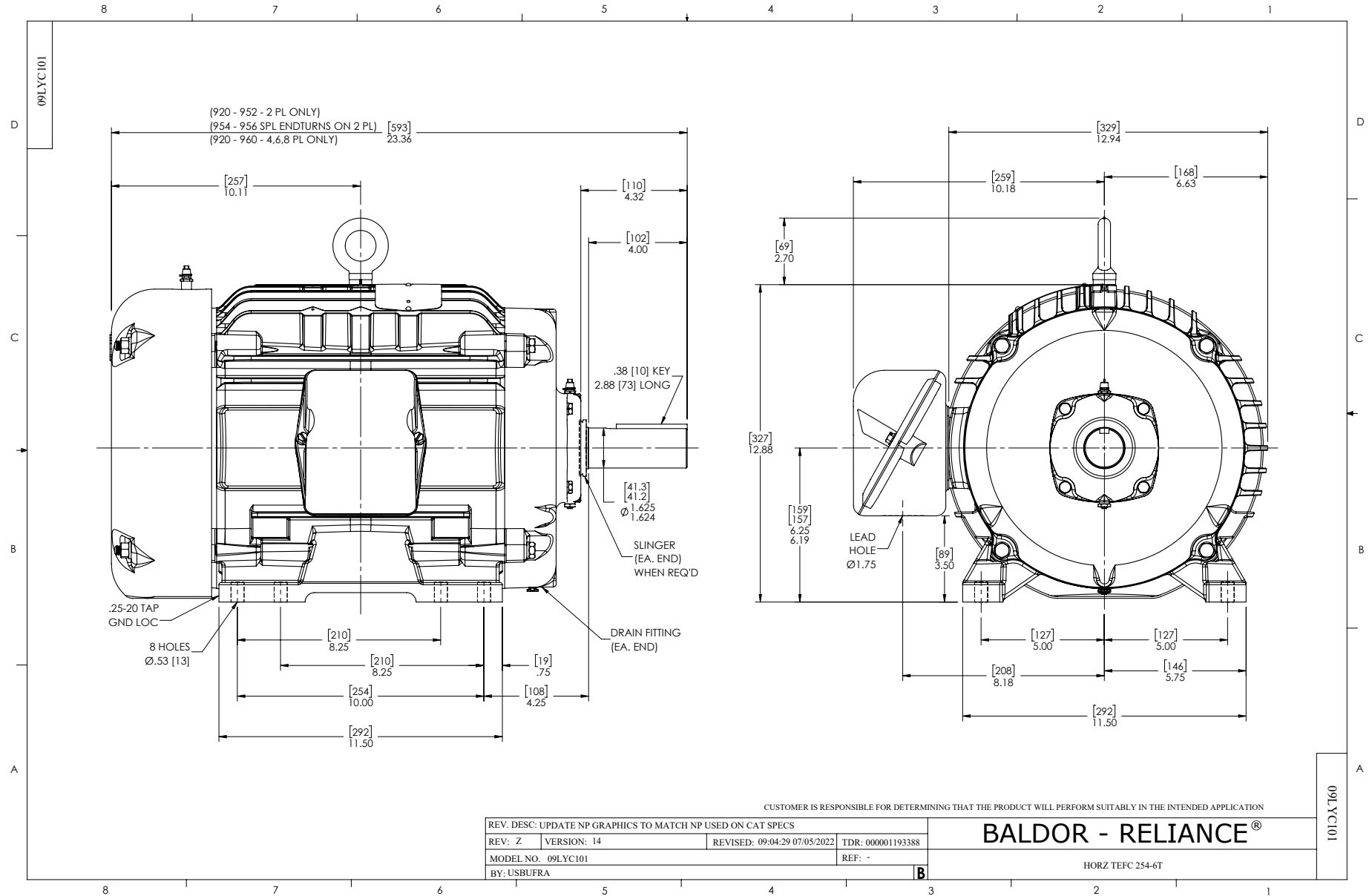
WINDING # 09WGX185

3.75 HP 3 PH 60 HZ 885 RPM 460 V 0934M

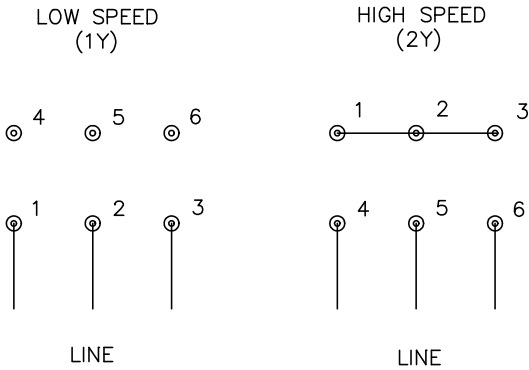
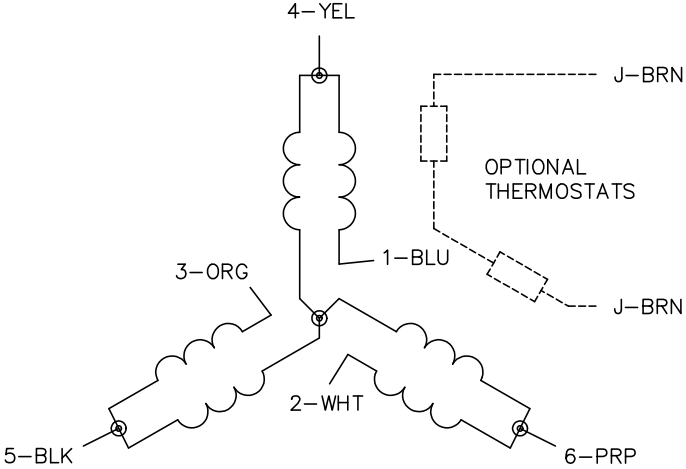
Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=75.1 PU=25 LR=49.8 LRA=34.2





CD0032



- 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: 01/22/99 8:27	TDR: 0171435
CD0032		FILE: AAA00005145	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, SV, 6 LEADS, 2-SPEED 1-WINDING VARIABLE TORQUE

CD0032