ABB BALDOR RELIANCE

Customer information packet

CXM050342

0.33//0.25HP, 1780//1480RPM, 3PH, 60//50HZ
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	56C
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	.250 HP @ 50 HZ
	.330 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	190.0 V @ 50 HZ
	460.0 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	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	1.700 A @ 230.0 V
	1.500 A @ 190.0 V
	.850 A @ 460.0 V
	.750 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGG155
Layout	35LYE2098
Eff. date	03-08-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	10-28-2021

Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	0.8 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	S
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3512M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.30 IN
Power Factor	49
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1780 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

NP0887XPSL											
NO.				**CC**							
S/N				**TEMP CODE**	T3C						
SPEC.	35-0000-1380			**INV.TYPE**	PWM						
CAT.NO.	CXM050342			**C HP FR**	60	**C HP TO**	90				
HP	.33//0.25			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	1.7/0.85//1.5/0.75		**MAG CUR**	1.6/0.8							
RPM	1780//1480		**MX RPM**	2700							
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	80				
SER.F.	1.15	**DES**	B	**SL HZ**	0.7	**WK2**	0.087				
FRAME	56C	**RATING**	40C AMB-CONT								
	NEMA MG-1 PART 5, IP54										
	1.15 SF ON SINE WAVE			SFA 1.8/0.9							

Parts List

Part number	Description	Quantity
SA400021	SA 35-0000-1380	1.000 ea
RA391160	RA 35-0000-1380	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0145B01	CONNECTION LABEL	1.000 ea
NP0887XPSL	SS XP INV UL CSA CC CL-I GP-D CL-II GP-F	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
NP0018F	ALUM UL XP CONDUIT BOX NAMEPLATE	1.000 ea
35FH4005A01SP	IEC FH NO GREASER W/PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
HA3104A06	THRUBOLT 5/16-18 X 8.50 OHIO ROD	4.000 ea
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
35EP3700A01SP	FR ENDPLATE, XPFC	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP3702A01SP	PU EP-205 BRG-35X-56C-143-5TC	1.000 ea
HA3013A01	1/2-20X5/8 SPL.HX BOLT	2.000 ea
84XN1032J20	SCREW, SOC 10-32 X 1 1/4"BMH4602	2.000 ea
HW3021C06	3/32 DI X .625 PIN (F/S)	2.000 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	WILKOFAST, 789.229, DARK CHARCOAL GRAY	0.022 ga
36PA1000	PKG GRP, PRINT PK1016A08	1.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea

AC Induction Motor Performance Data
Record # 90037
Typical performance - not guaranteed values

Winding: 35WGG155-R048	**Type:** 3512M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			.33//.25
Volts			230/460//190/380
Full Load Amps			1.7/.85//1.5/.75
R.P.M.			1780//1480
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	S
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	75.5	**Power Factor**	49
Rating - Duty			40C AMB-CONT
S.F. Amps			1.8/.9//1.56/.78

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	0.977 LB-FT
Start Configuration	direct on line
Breakdown Torque	6.28 LB-FT
Pull-up Torque	3.26 LB-FT
Locked-rotor Torque	4.04 LB-FT
Starting Current	6.71 A
No-load Current	0.792 A
Line-line Res. @ 25ºC	43.2 Ω
Temp. Rise @ Rated Load	17°C
Temp. Rise @ S.F. Load	19°C
Locked-rotor Power Factor	70.7767
Rotor inertia	0.0866 lb-ft²

Load Characteristics 460 V, 60 Hz, 0.33 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	22	31	41	49	57	63	54
Efficiency	47.4	63.1	70.8	75.1	77.6	79.1	76.6
Speed	1794	1789	1785	1780	1774	1769	1776
Line amperes	0.786	0.791	0.814	0.839	0.878	0.933	0.862

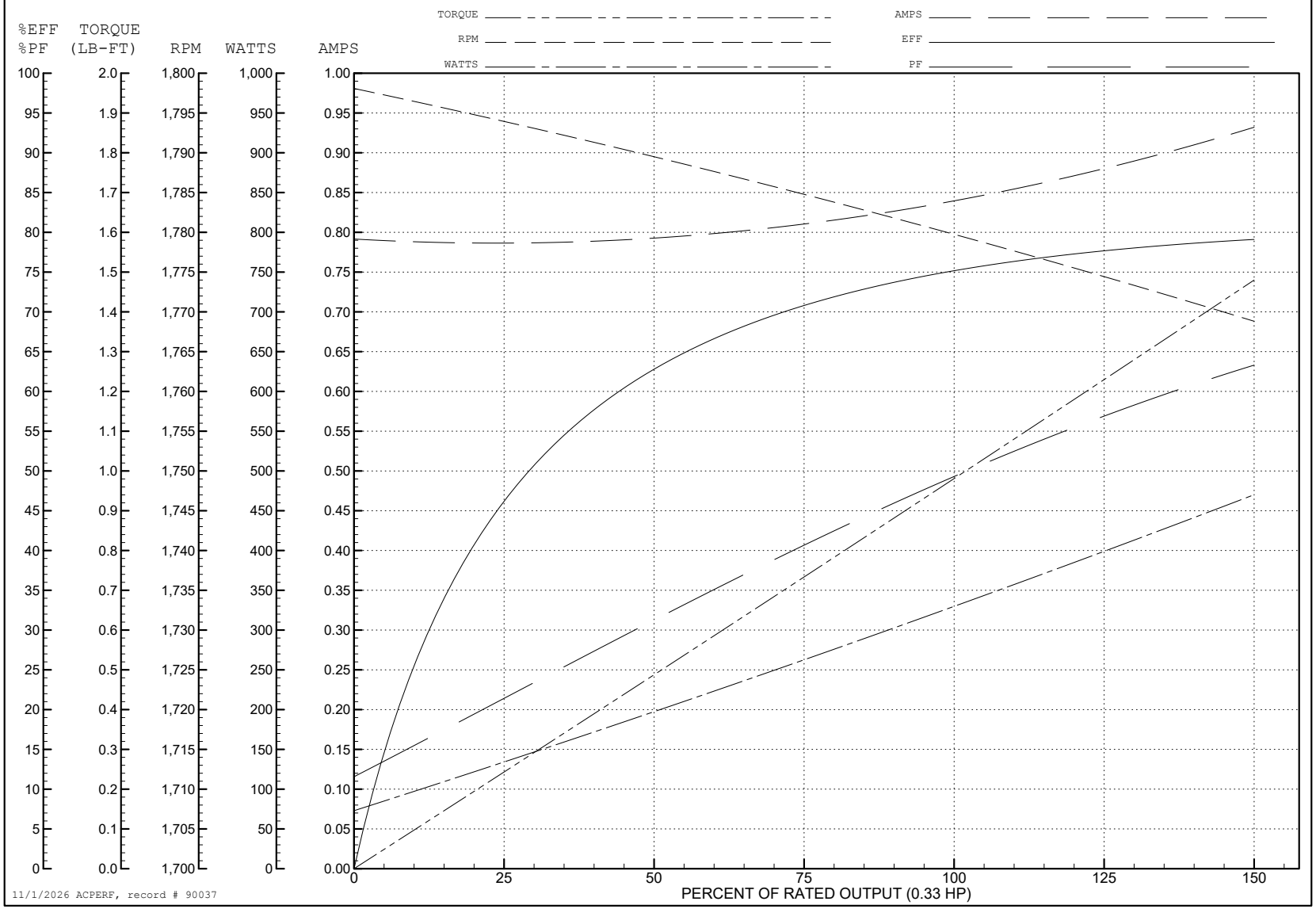
ABB Motors and Mechanical Inc.

WINDING # 35WGG155

0.33 HP 3 PH 60 HZ 1780 RPM 460 V 3512M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=6.28 PU=3.26 LR=4.04 LRA=6.71



AC Induction Motor Performance Data
Record # 90038
Typical performance - not guaranteed values

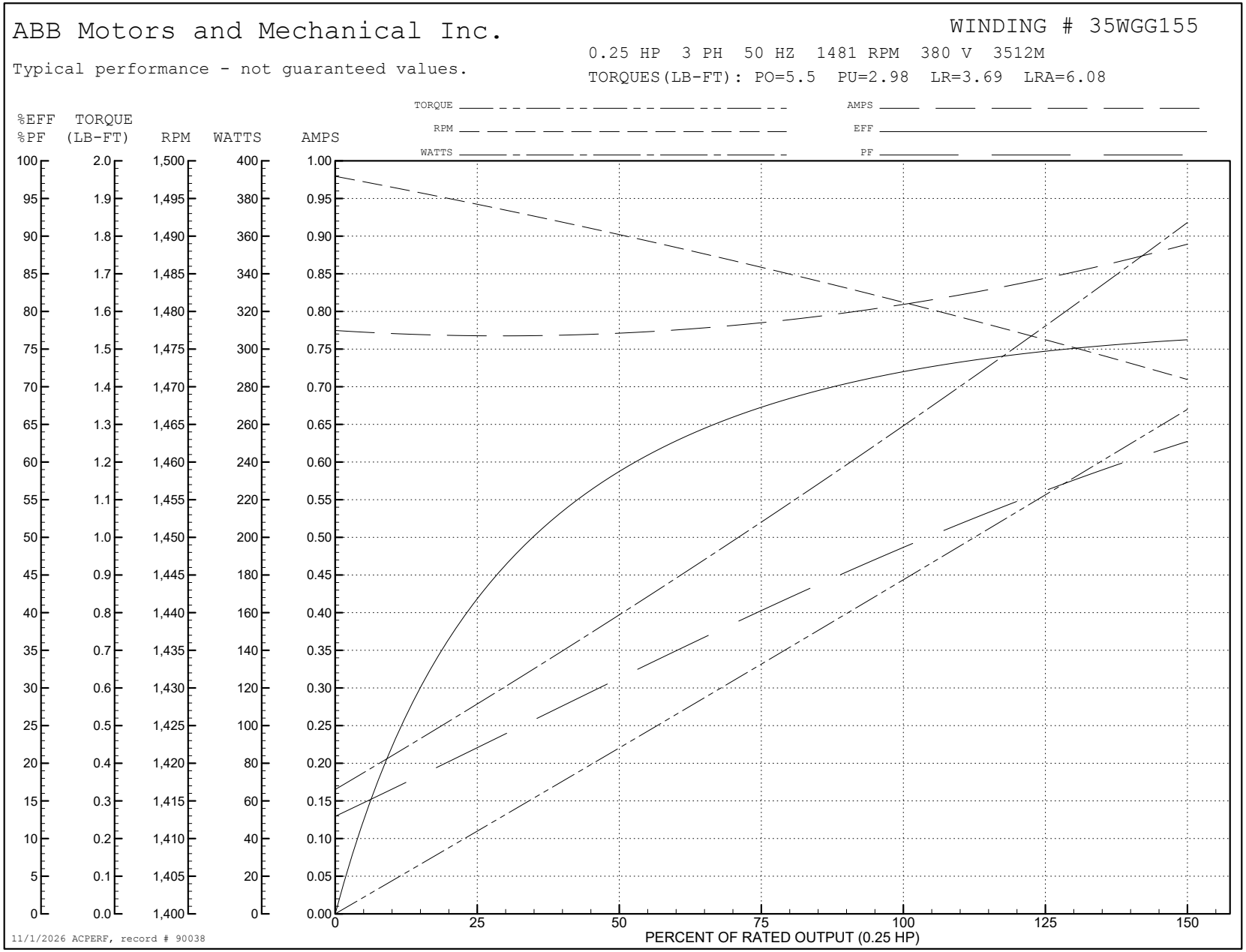
Winding: 35WGG155-R048	**Type:** 3512M	**Enclosure:** TEFC

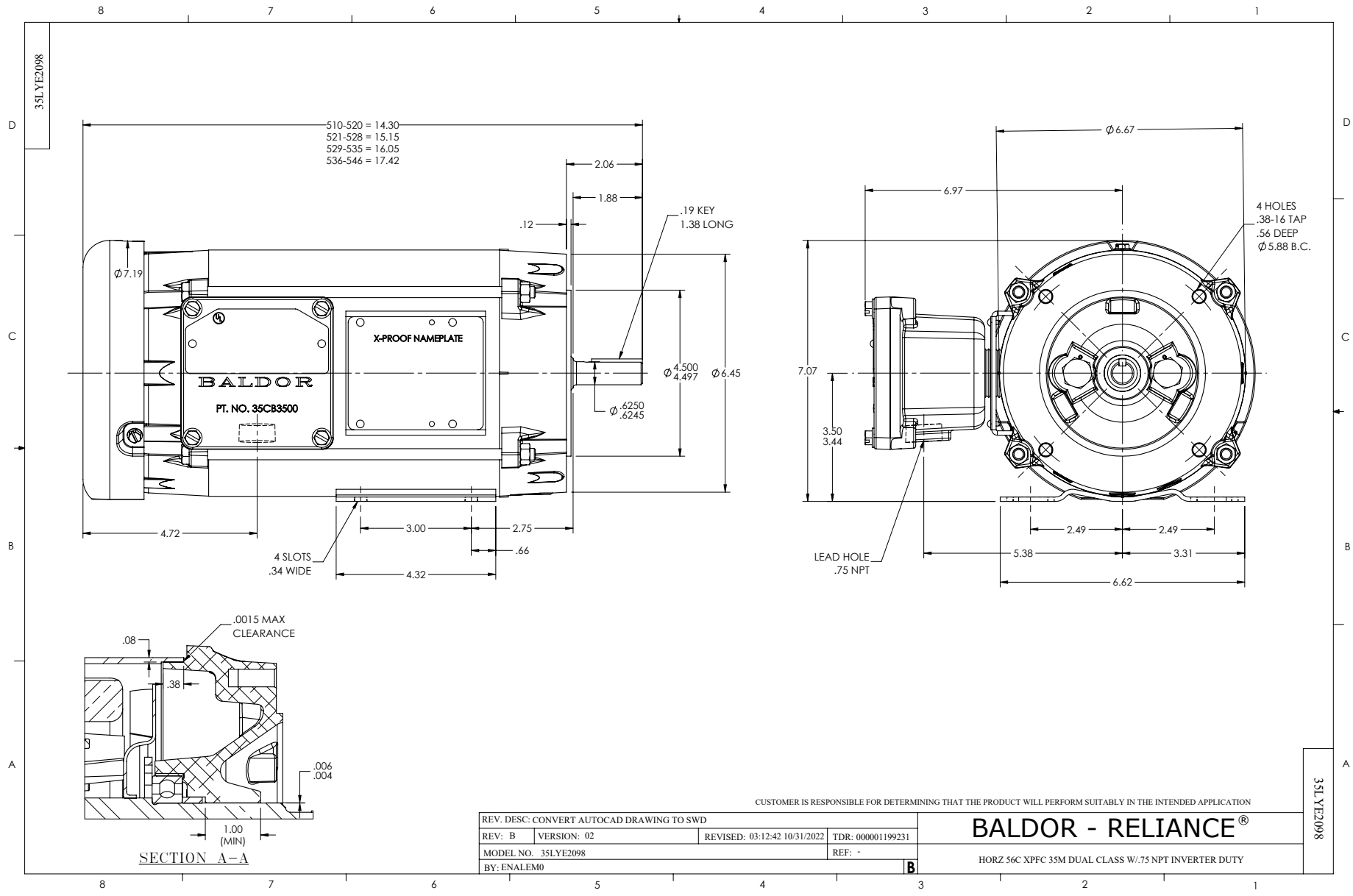
Nameplate Data			
Rated Output (HP)			.33//.25
Volts			230/460//190/380
Full Load Amps			1.7/.85//1.5/.75
R.P.M.			1780//1480
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	S
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	75.5	**Power Factor**	49
Rating - Duty			40C AMB-CONT
S.F. Amps			1.8/.9//1.56/.78

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	0.892 LB-FT
Start Configuration	direct on line
Breakdown Torque	5.5 LB-FT
Pull-up Torque	2.98 LB-FT
Locked-rotor Torque	3.69 LB-FT
Starting Current	6.08 A
No-load Current	0.775 A
Line-line Res. @ 25ºC	43.2 Ω
Temp. Rise @ Rated Load	17°C
Temp. Rise @ S.F. Load	18°C
Locked-rotor Power Factor	76.0359
Rotor inertia	0.0866 lb-ft²

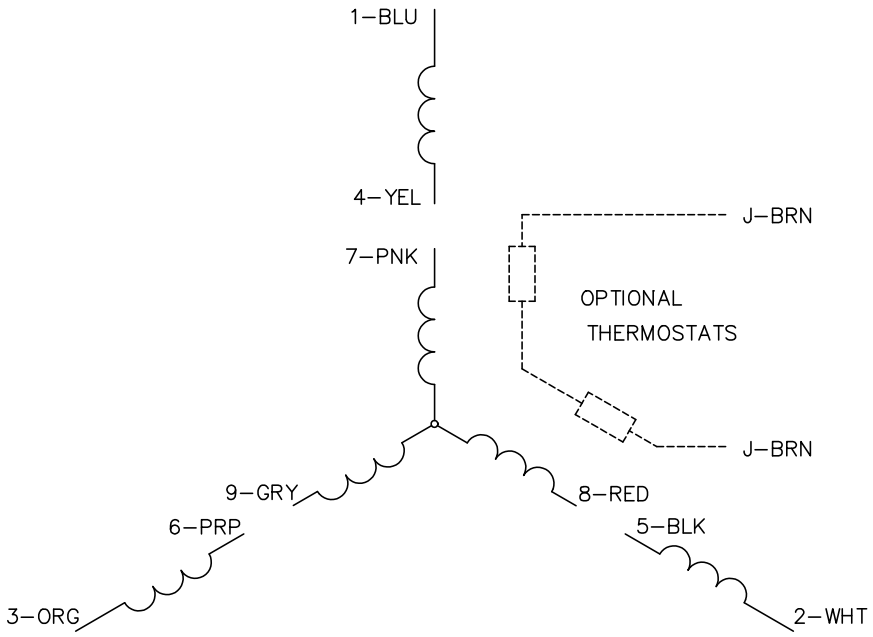
Load Characteristics 380 V, 50 Hz, 0.25 HP

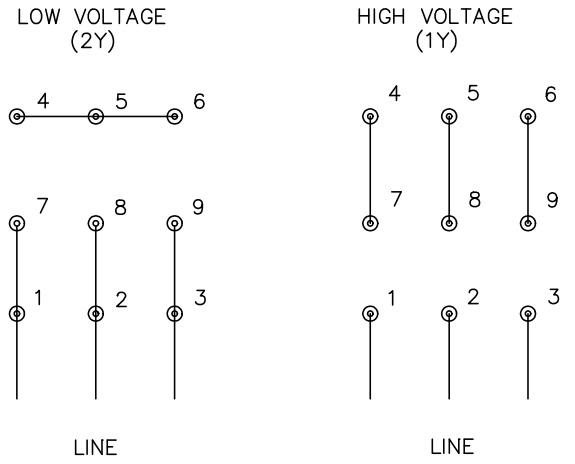
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	23	32	40	49	56	63	53
Efficiency	42.4	58.8	67.4	72.1	75	76.1	73.8
Speed	1494	1490	1486	1481	1476	1471	1478
Line amperes	0.767	0.77	0.789	0.81	0.842	0.891	0.829


ABB Motors and Mechanical Inc.
WINDING # 35WGG155
0.25 HP 3 PH 50 HZ 1481 RPM 380 V 3512M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=5.5 PU=2.98 LR=3.69 LRA=6.08
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.25 HP)
11/1/2026 ACPERF, record # 90038


35LYE2098
510-520 = 14.30
521-528 = 15.15
529-535 = 16.05
536-546 = 17.42
2.06
1.88
.12
.19 KEY
1.38 LONG
Ø7.19
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø4.500
4.497
Ø6.45
Ø.6250
.6245
4.72
3.00
2.75
.66
4 SLOTS
.34 WIDE
4.32
Ø6.67
6.97
4 HOLES
.38-16 TAP
.56 DEEP
Ø5.88 B.C.
7.07
3.50
3.44
LEAD HOLE
.75 NPT
2.49
2.49
5.38
3.31
6.62
.0015 MAX
CLEARANCE
.08
.38
.006
.004
1.00
(MIN)
SECTION A–A
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRAWING TO SWD
REV: B
VERSION: 02
REVISED: 03:12:42 10/31/2022
TDR: 000001199231
MODEL NO. 35LYE2098
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 56C XPFC 35M DUAL CLASS W/.75 NPT INVERTER DUTY
35LYE2098

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