ABB BALDOR RELIANCE

Customer information packet

CM7006-I

.5//.33HP, 1740//1450RPM, 3PH, 60//50HZ, 56C
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPNV
Frame	56C
Frame Material	Steel
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	.330 HP @ 50 HZ
	.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	380.0 V @ 50 HZ
	230.0 V @ 60 HZ
	190.0 V @ 50 HZ
Agency Approvals	CSA
	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
Current @ Voltage	1.900 A @ 208.0 V
	1.800 A @ 230.0 V
	1.740 A @ 190.0 V
	.900 A @ 460.0 V
	.870 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	C
Type	AC
Mech. spec.	35X724
Base	
Status	PRD/A
Elec. spec.	35WGG155
Layout	35LYX724
Eff. date	04-16-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-10-2022

Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	0.9 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X3512M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.14 IN
Power Factor	65
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1475 rpm
	1770 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

NP0977XPSL											
NO.							**CC**				
SER.							**TEMP CODE**	T3C			
SPEC.	35X724G155G1										
CAT.NO.											
HP	.5//.33										
VOLTS	230/460//190/380										
AMPS	1.8/.9//1.74/.87										
RPM	1770//1475					**MOTOR WEIGHT**	37				
HERTZ	60//50	**PH**	3	**CL**	F	**DE BRG**	6205				
SER.F.	1.15	**DES**	B	**CODE**	M	**ODE BRG**	6203				
FRAME	56C	**GREASE**	POLYREX EM								
RATING	40C AMB-CONT										
				NEMA-NOM-EFF		80	**PF**	65			
	SFA 2/1										

AC Induction Motor Performance Data
Record # 116237
Typical performance - not guaranteed values

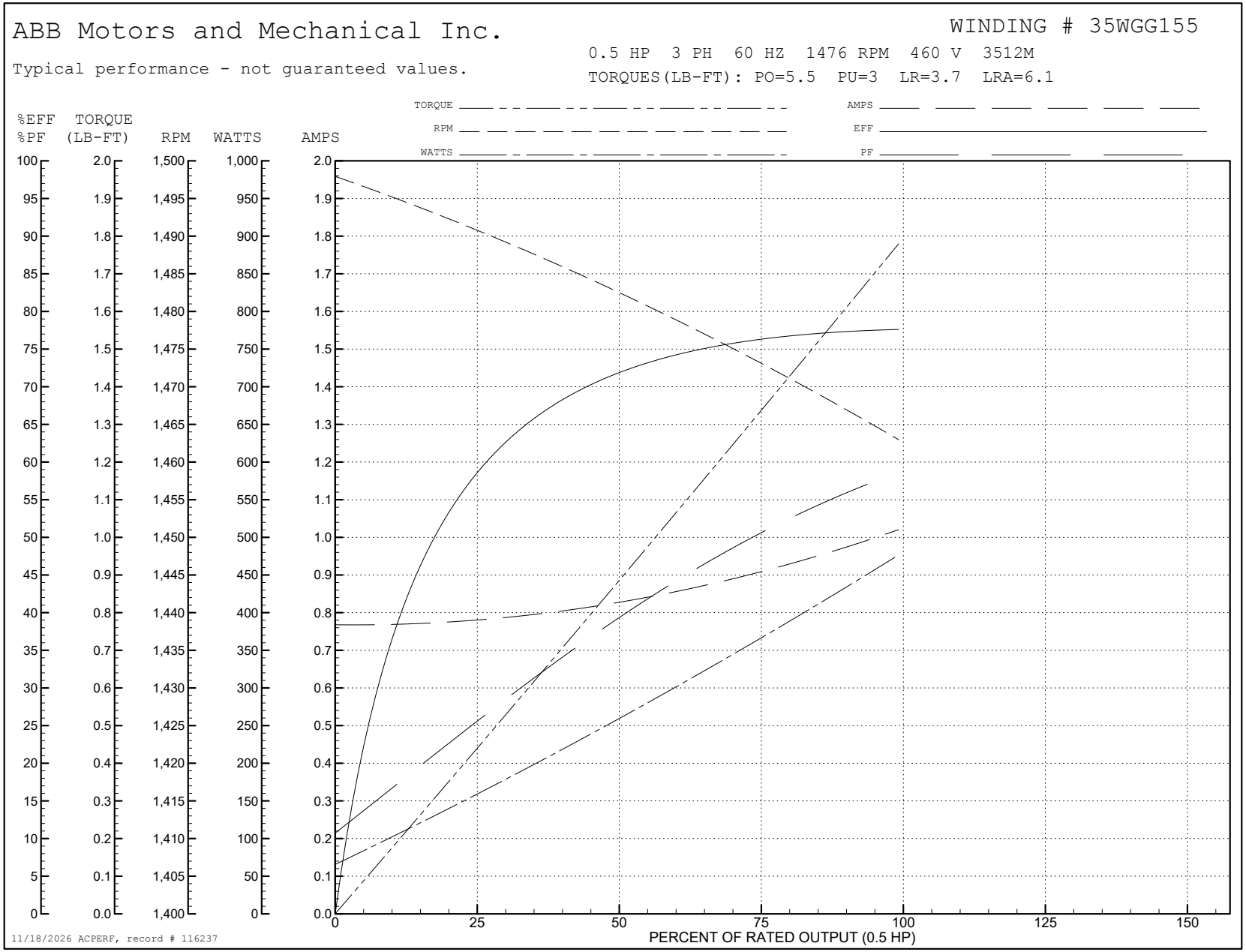
Winding: 35WGG155-R031	**Type:** 3512M	**Enclosure:** XPNV

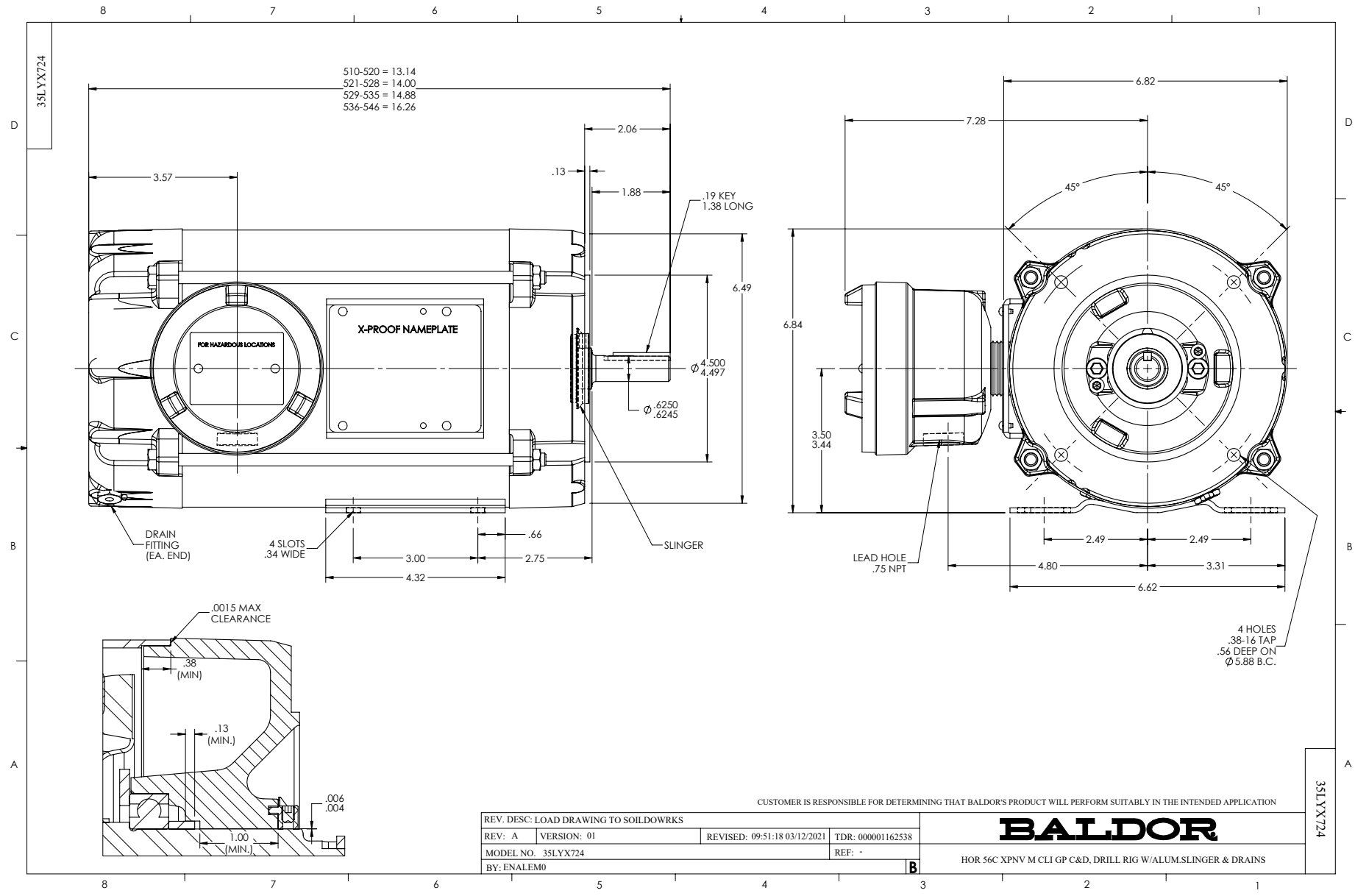
Nameplate Data			
Rated Output (HP)			.5//.33
Volts			230/460//190/380
Full Load Amps			1.8/.9//1.74/.87
R.P.M.			1770//1475
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	M
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	80	**Power Factor**	65
Rating - Duty			40C AMB-CONT
S.F. Amps			1.9/0.95//1.92/0.96

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	1.18 LB-FT
Start Configuration	direct on line
Breakdown Torque	5.5 LB-FT
Pull-up Torque	3 LB-FT
Locked-rotor Torque	3.7 LB-FT
Starting Current	6.1 A
No-load Current	0.77 A
Line-line Res. @ 25ºC	43.2 Ω
Temp. Rise @ Rated Load	49°C
Temp. Rise @ S.F. Load	56°C
Locked-rotor Power Factor	70.8
Rotor inertia	0.0866 lb-ft²

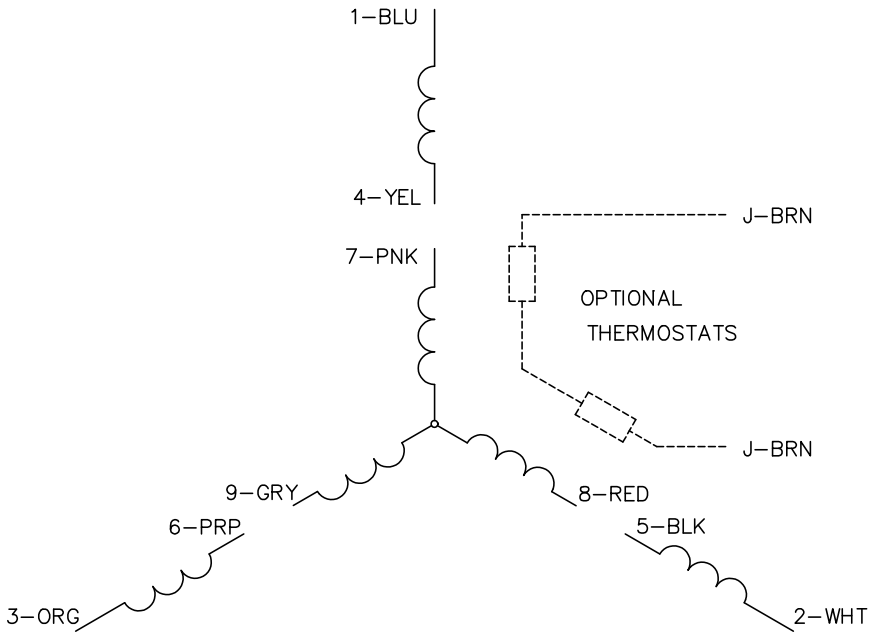
Load Characteristics 460 V, 60 Hz, 0.5 HP

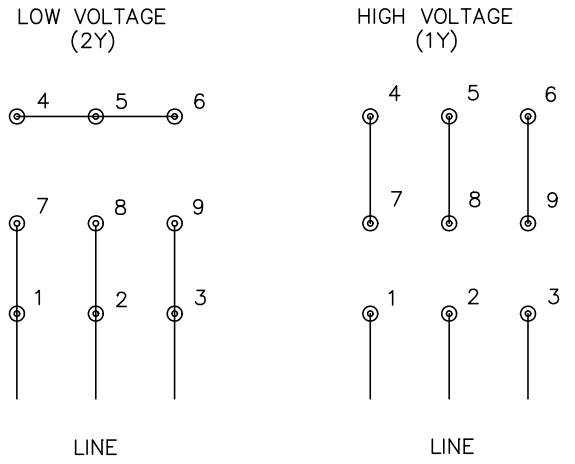
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	21	31	39	47	54	59	51
Efficiency	48.8	64.7	71.8	75.2	77	77.5	76.3
Speed	1493	1488	1483	1476	1470	1463	1472
Line amperes	0.77	0.79	0.83	0.88	0.94	1.02	0.916


ABB Motors and Mechanical Inc.
WINDING # 35WGG155
Typical performance - not guaranteed values.
0.5 HP 3 PH 60 HZ 1476 RPM 460 V 3512M
TORQUES(LB-FT): PO=5.5 PU=3 LR=3.7 LRA=6.1
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.5 HP)
11/18/2026 ACPERF, record # 116237


35LYX724
510-520 = 13.14
521-528 = 14.00
529-535 = 14.88
536-546 = 16.26
2.06
.13
1.88
.19 KEY
1.38 LONG
3.57
6.49
X-PROOF NAMEPLATE
FOR HAZARDOUS LOCATIONS
Ø 4.500
4.497
Ø .6250
.6245
DRAIN
FITTING
(EA. END)
4 SLOTS
.34 WIDE
.66
3.00
2.75
4.32
SLINGER
6.82
7.28
45°
45°
6.84
3.50
3.44
LEAD HOLE
.75 NPT
2.49
2.49
4.80
3.31
6.62
4 HOLES
.38-16 TAP
.56 DEEP ON
Ø 5.88 B.C.
.0015 MAX
CLEARANCE
.38
(MIN)
.13
(MIN.)
.006
.004
1.00
(MIN.)
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOILDOWRKS
REV: A
VERSION: 01
REVISED: 09:51:18 03/12/2021
TDR: 000001162538
MODEL NO. 35LYX724
REF: -
BY: ENALEM0
B
BALDOR
HOR 56C XPNV M CLI GP C&D, DRILL RIG W/ALUM.SLINGER & DRAINS
35LYX724

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