ABB BALDOR RELIANCE

Customer information packet

CEM7042T

3//2HP, 1760//1460RPM, 3PH, 60//50HZ, 182TC
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	182TC
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	2.000 HP @ 50 HZ
	3.000 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	9.000 A @ 208.0 V
	8.400 A @ 230.0 V
	7.200 A @ 190.0 V
	4.200 A @ 460.0 V
	3.600 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	R
Type	AC
Mech. spec.	36N020
Base	
Status	PRD/A
Elec. spec.	36WGS266
Layout	36LYN020
Eff. date	07-15-2026
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	09-30-2010

Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	3.6 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3632M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.86 IN
Power Factor	75
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Speed	1460 rpm
	1760 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

NP1426XPSLEV							
NO.		**CC**	010A				
SER.							
SPEC.	36N020S266G1						
CAT.NO.	CEM7042T						
HP	3//2	**T. CODE**	T3C				
VOLTS	230/460//190/380						
AMPS	8.4/4.2//7.2/3.6						
RPM	1760//1460						
HZ	60//50	**PH**	3	**CL**	B		
SER.F.	1.00	**DES**	B	**CODE**	K		
RATING	40C AMB-CONT						
FRAME	182TC	**NEMA-NOM-EFF**	89.5				
		PF	75				
BLANK							

AC Induction Motor Performance Data
Record # 35725
Typical performance - not guaranteed values

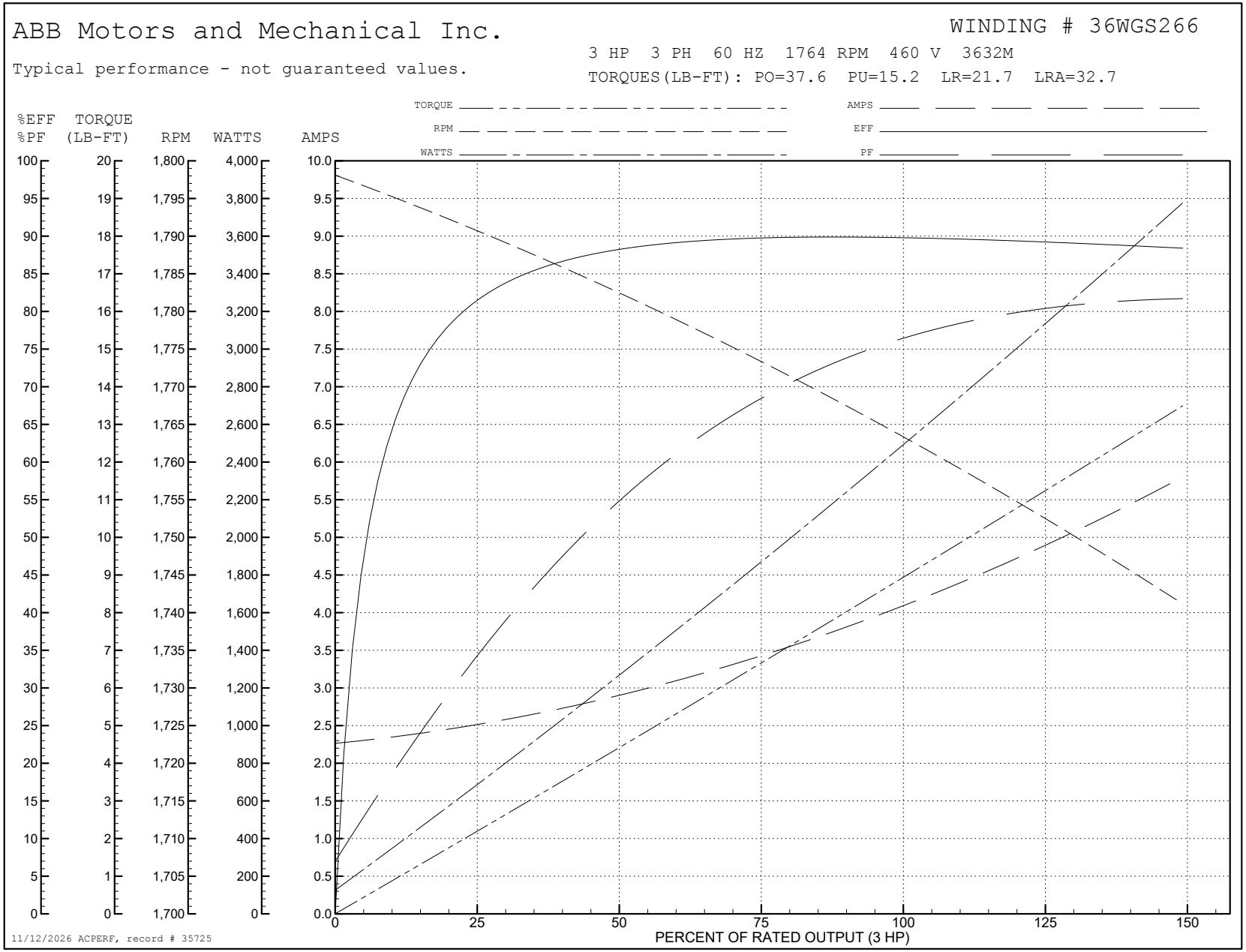
Winding: 36WGS266-R003	**Type:** 3632M	**Enclosure:** XPFC

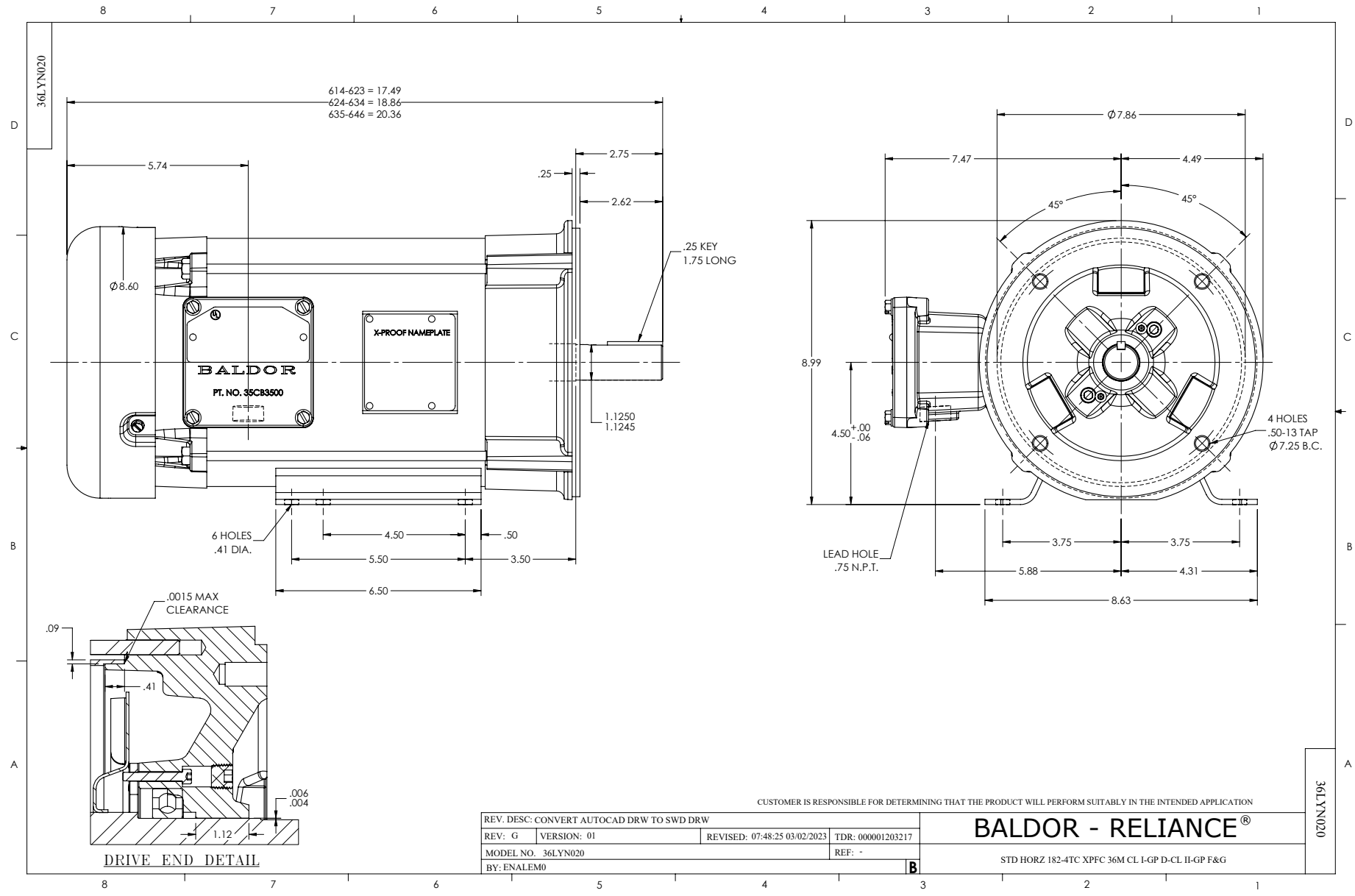
Nameplate Data			
Rated Output (HP)			3//2
Volts			230/460//190/380
Full Load Amps			8.4/4.2//7.2/3.6
R.P.M.			1760//1460
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	K
Service Factor (S.F.)			1
NEMA Nom. Eff.	89.5	**Power Factor**	75
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	8.8 LB-FT
Start Configuration	direct on line
Breakdown Torque	37.6 LB-FT
Pull-up Torque	15.2 LB-FT
Locked-rotor Torque	21.7 LB-FT
Starting Current	32.7 A
No-load Current	2.3 A
Line-line Res. @ 25ºC	3.81 Ω
Temp. Rise @ Rated Load	44°C
Locked-rotor Power Factor	42.2
Rotor inertia	0.3 LB-FT2

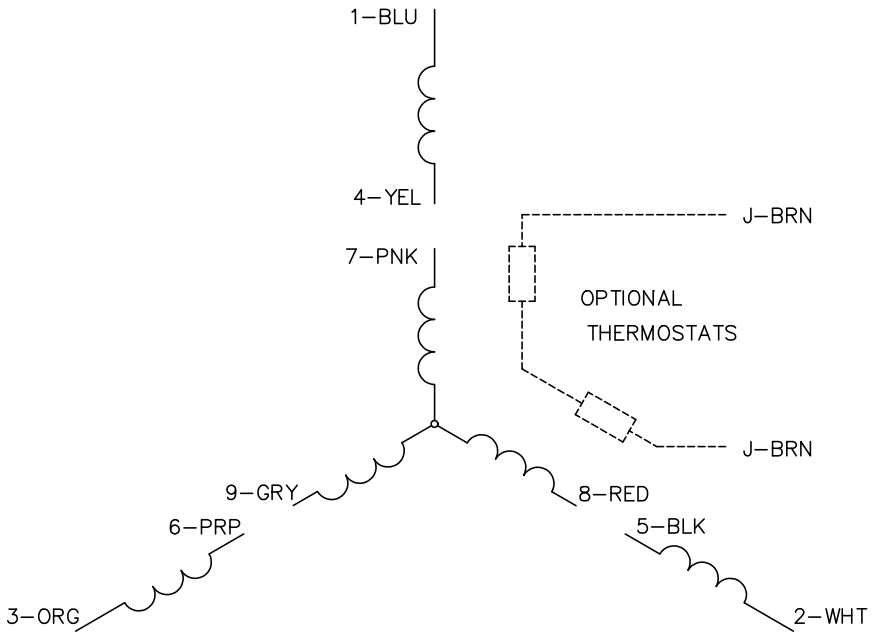
Load Characteristics 460 V, 60 Hz, 3 HP

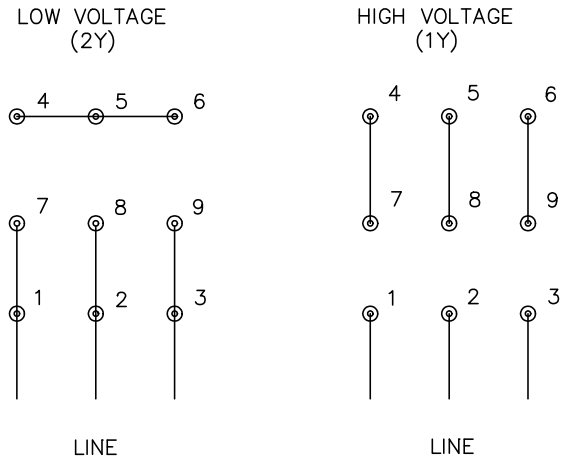
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	35	55	68	75	80	82
Efficiency	81.1	87.8	89.6	89.8	89.7	88.2
Speed	1791	1783	1773	1764	1753	1741
Line amperes	2.47	2.85	3.43	4.09	4.89	5.78


ABB Motors and Mechanical Inc.
WINDING # 36WGS266
3 HP 3 PH 60 HZ 1764 RPM 460 V 3632M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=37.6 PU=15.2 LR=21.7 LRA=32.7
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (3 HP)
11/12/2026 ACPERF, record # 35725


36LYN020
614-623 = 17.49
624-634 = 18.86
635-646 = 20.36
5.74
2.75
.25
2.62
.25 KEY
1.75 LONG
Ø8.60
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
1.1250
1.1245
6 HOLES
.41 DIA.
4.50
.50
5.50
3.50
6.50
Ø7.86
7.47
4.49
45°
45°
8.99
4.50 +.00 -.06
4 HOLES
.50-13 TAP
Ø7.25 B.C.
LEAD HOLE
.75 N.P.T.
3.75
3.75
5.88
4.31
8.63
.0015 MAX
CLEARANCE
.09
.41
.006
.004
1.12
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: G
VERSION: 01
REVISED: 07:48:25 03/02/2023
TDR: 000001203217
MODEL NO. 36LYN020
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 182-4TC XPFC 36M CL I-GP D-CL II-GP F&G
36LYN020

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