

BALDOR® • RELIANCE 

Product Information Packet

CEM7042T

3//2HP,1760//1460RPM,3PH,60//50HZ,182TC

Part Detail							
Revision:	K	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	36WGS266	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	36N020	Layout:	36LYN020	Poles:	04	Created Date:	09-30-2010
Base:	RG	Eff. Date:	04-08-2016	Leads:	9#16		

Specs			
Catalog Number:	CEM7042T	Front Shaft Indicator:	None
Enclosure:	XPFC	Heater Indicator:	No Heater
Frame:	182TC	Insulation Class:	B
Frame Material:	Steel	Inverter Code:	Not Inverter
Output @ Frequency:	3.000 HP @ 60 HZ	KVA Code:	K
	2.000 HP @ 50 HZ	Lifting Lugs:	No Lifting Lugs
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 16 AWG
	190.0 V @ 50 HZ	Motor Lead Exit:	Ko Box
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
	380.0 V @ 50 HZ	Motor Type:	3632M
XP Class and Group:	CLI GP D; CLII GP F,G	Mounting Arrangement:	F1
XP Division:	Division I	Power Factor:	75
Agency Approvals:	UL	Product Family:	General Purpose
	CSA	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	C-Face
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	Rigid	Rodent Screen:	None

Bearing Grease Type:	Polyrex EM (-20F +300F)	RoHS Status:	ROHS COMPLIANT
Blower:	None	Shaft Extension Location:	Pulley End
Current @ Voltage:	3.600 A @ 380.0 V	Shaft Ground Indicator:	No Shaft Grounding
	4.200 A @ 460.0 V	Shaft Rotation:	Reversible
	7.200 A @ 190.0 V	Shaft Slinger Indicator:	No Slinger
	8.400 A @ 230.0 V	Speed Code:	Single Speed
	9.000 A @ 208.0 V	Motor Standards:	NEMA
Design Code:	B	Starting Method:	Direct on line
Drip Cover:	No Drip Cover	Thermal Device - Bearing:	NONE (OLD)
Duty Rating:	CONT	Thermal Device - Winding:	Normally Closed Thermostat
Electrically Isolated Bearing:	Not Electrically Isolated	Vibration Sensor Indicator:	No Vibration Sensor
Feedback Device:	NO FEEDBACK	Winding Thermal 1:	None
Front Face Code:	Standard	Winding Thermal 2:	None
		XP Temp Code:	T3C

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
USABLE AT 208V	9 PF 75
BLANK	[]

Parts List		
Part Number	Description	Quantity
SA204438	SA 36N020S266G1	1.000 EA
RA191684	RA 36N020S266G1	1.000 EA
36FN3000C01SP	EXFN, PLASTIC, 5.25 OD, .912 ID	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
36EP3700A01	FR ENDPLATE, MACH	1.000 EA
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	2.000 EA
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 EA
36EP1703A01	PU ENDPLATE, MACH	1.000 EA
HW4001A01	1/4 HX SOC PIPE PLG (F/S) ALLOY STEEL W/	2.000 EA
60XN1032A07	10-32 X .4375 TRUSS HEAD, TORX SERRATED	2.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 EA
36FH4009A02	FAN COVER FOR VM7042T,PRIMER	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
35CB3500A01SP	CONDUIT BOX LID, MACH	1.000 EA
51XN2520A16	SCREW, HEX WS SLT, ZN, 1/4-20 X 1.00	4.000 EA
HW2501E16	KEY, 1/4 SQ X 1.750	1.000 EA
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	6.000 EA
NP0018F	ALUM UL XP CONDUIT BOX NAMEPLATE	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
MG1025G29	WILKOFAS, 789.229, DARK CHARCOAL GRAY	0.022 GA

Parts List (continued)		
Part Number	Description	Quantity
HA3105A06	THRUBOLT- 3/8-16 X 10.500 X	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0145B01	CONNECTION LABEL	1.000 EA
NP1426XPSLEV	SS XP UL CSA-EEV CC CL-I GP-D	1.000 EA
36PA1001	PKG GRP, PRINT PK1017A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 5/18	1.000 EA

AC Induction Motor Performance Data

Record # 35725 - Typical performance - not guaranteed values

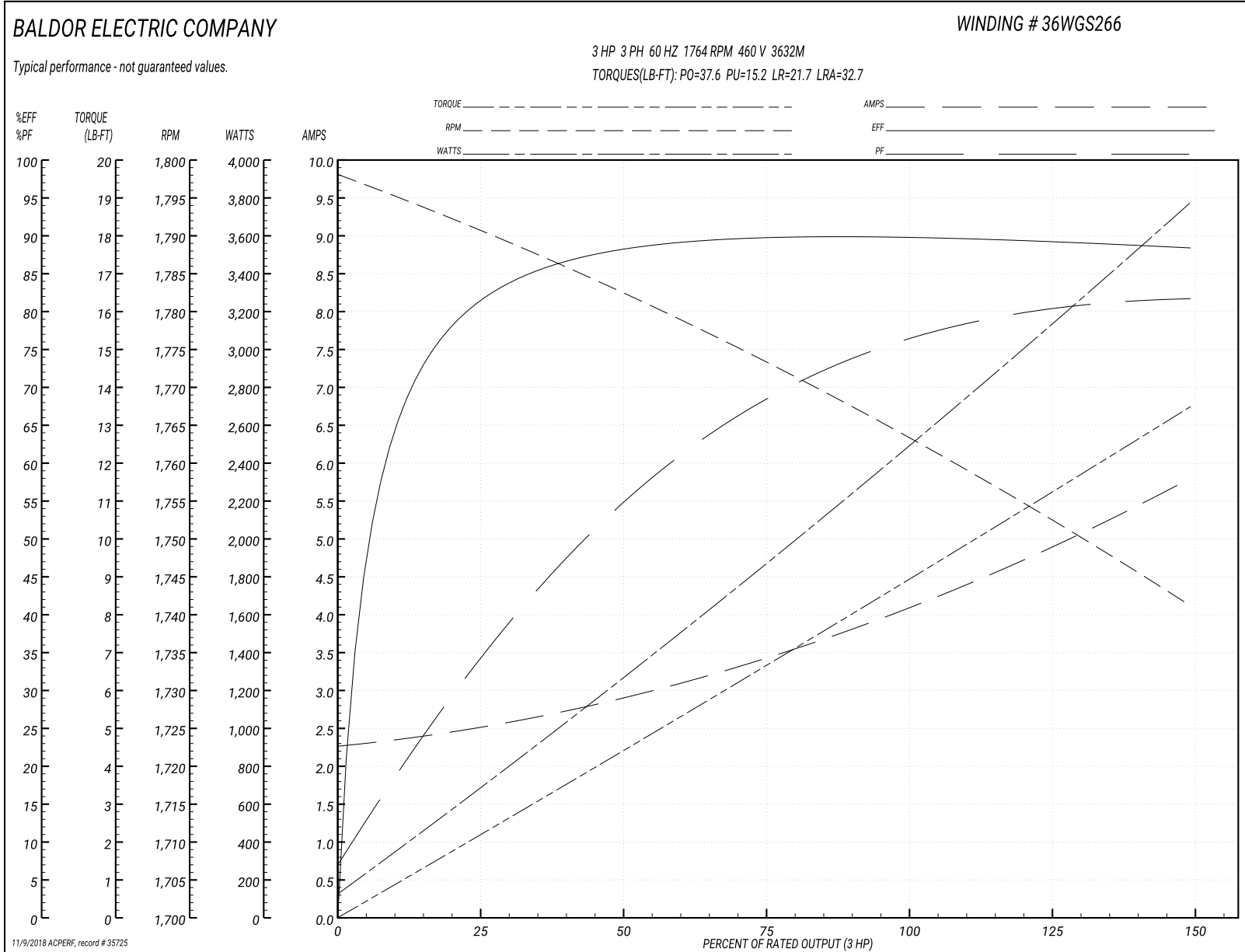
Winding: 36WGS266-R003	Type: 3632M	Enclosure: XPFC
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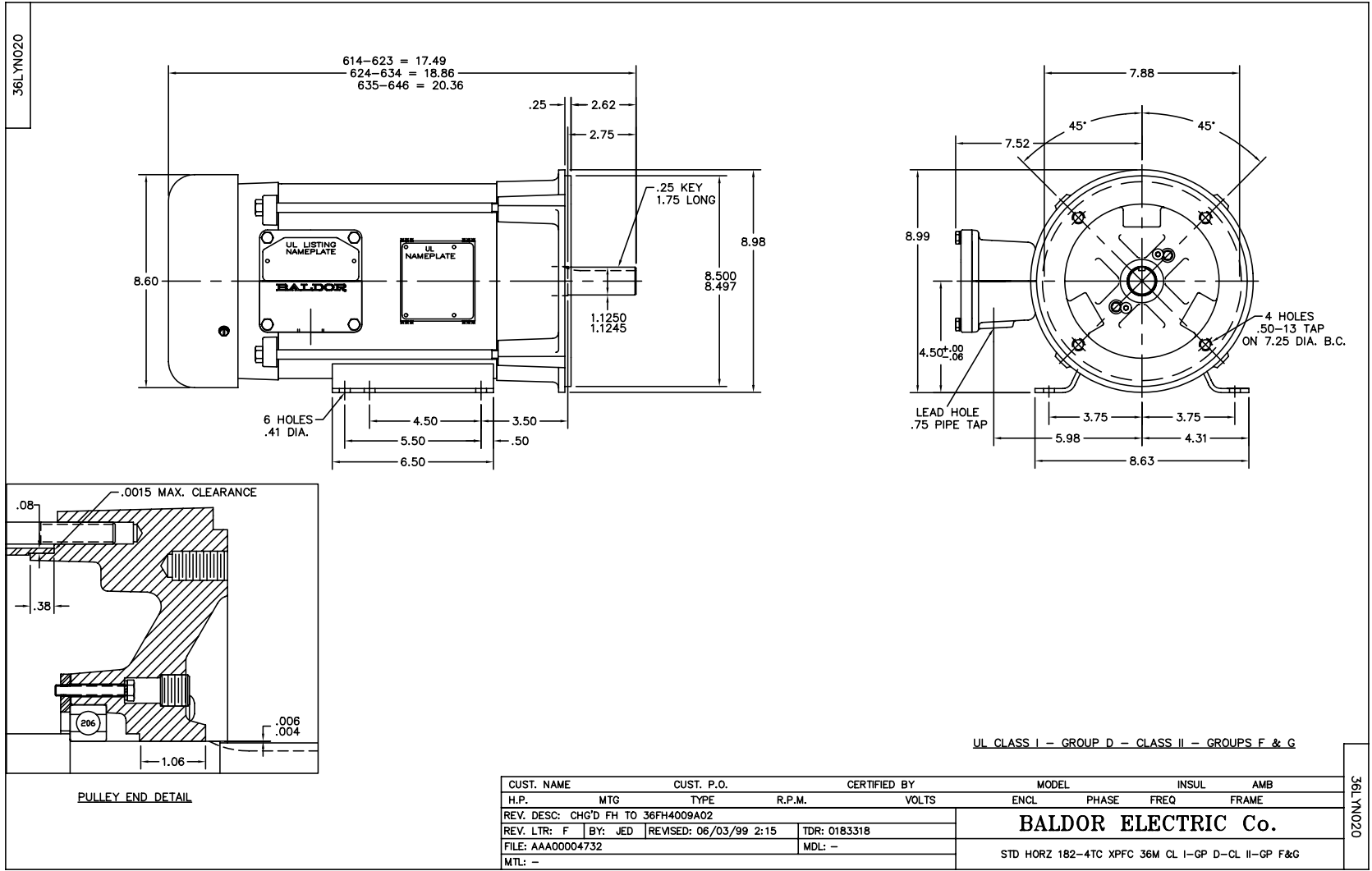
Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	3//2			Full Load Torque	8.8 LB-FT
Volts	230/460//190/380			Start Configuration	direct on line
Full Load Amps	8.4/4.2//7.2/3.6			Breakdown Torque	37.6 LB-FT
R.P.M.	1760//1460			Pull-up Torque	15.2 LB-FT
Hz	60//50	Phase	3	Locked-rotor Torque	21.7 LB-FT
NEMA Design Code	B	KVA Code	K	Starting Current	32.7 A
Service Factor (S.F.)	1			No-load Current	2.3 A
NEMA Nom. Eff.	89.5	Power Factor	75	Line-line Res. @ 25°C	3.81 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	44°C
				Locked-rotor Power Factor	42.2
				Rotor inertia	0.3 LB-FT ²

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

Performance Graph at 460V, 60Hz, 3.0HP Typical performance - Not guaranteed values





CD0005

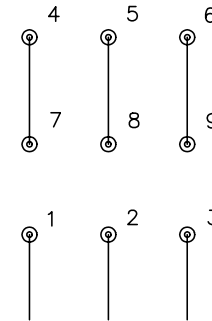


LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

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

900003

FILE: AAA00005140

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005