

ABB BALDOR RELIANCE III

Customer information packet

CEM7042T-I

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

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	182TC
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	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	U
Type	AC
Mech. spec.	36N864
Base	
Status	PRD/A
Elec. spec.	36WGS266
Layout	36LYN864
Eff. date	06-03-2026
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	01-15-2013

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	F
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	19.59 IN
Power Factor	75
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft 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

NP0977XPSL												
NO.							CC	010A				
SER.							TEMP CODE	T3C				
SPEC.	36N864S266G1											
CAT.NO.												
HP	3//2 55C @ 1.0 SF / 75C RISE											
VOLTS	230/460//190/380											
AMPS	8.4/4.2//7.2/3.6											
RPM	1760//1460				MOTOR WEIGHT				117			
HERTZ	60//50		PH	3	CL	F	DE BRG	6206				
SER.F.	1.15		DES	B	CODE	K	ODE BRG	6205				
FRAME	182TC		GREASE			POLYREX EM						
RATING	40C AMB-CONT											
					NEMA-NOM-EFF				89.5		PF	75
	NEMA MG-1 PT 5,IP55											

AC Induction Motor Performance Data

Record # 32662

Typical performance - not guaranteed values

Winding: 36WGS266-R004			Type: 3632M		Enclosure: XPFC	
Nameplate Data				380 V, 50 Hz: High Voltage Connection		
Rated Output (HP)		3//2		Full Load Torque		7.04 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		35.4 LB-FT
R.P.M.		1760//1460		Pull-up Torque		15.4 LB-FT
Hz		60//50 Phase		Locked-rotor Torque		22 LB-FT
NEMA Design Code		B KVA Code		Starting Current		31.5 A
Service Factor (S.F.)		1.15		No-load Current		2.26 A
NEMA Nom. Eff.		89.5 Power Factor		Line-line Res. @ 25°C		3.81 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		35°C
S.F. Amps				Temp. Rise @ S.F. Load		41°C
				Locked-rotor Power Factor		46.9
				Rotor inertia		0.298 LB-FT2

Load Characteristics 380 V, 50 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	49	63	71	77	80	74
Efficiency	76.9	85.4	88.1	88.7	88.9	87.7	88.6
Speed	1493	1486	1478	1471	1462	1452	1463
Line amperes	2.38	2.65	3.07	3.55	4.16	4.83	3.96

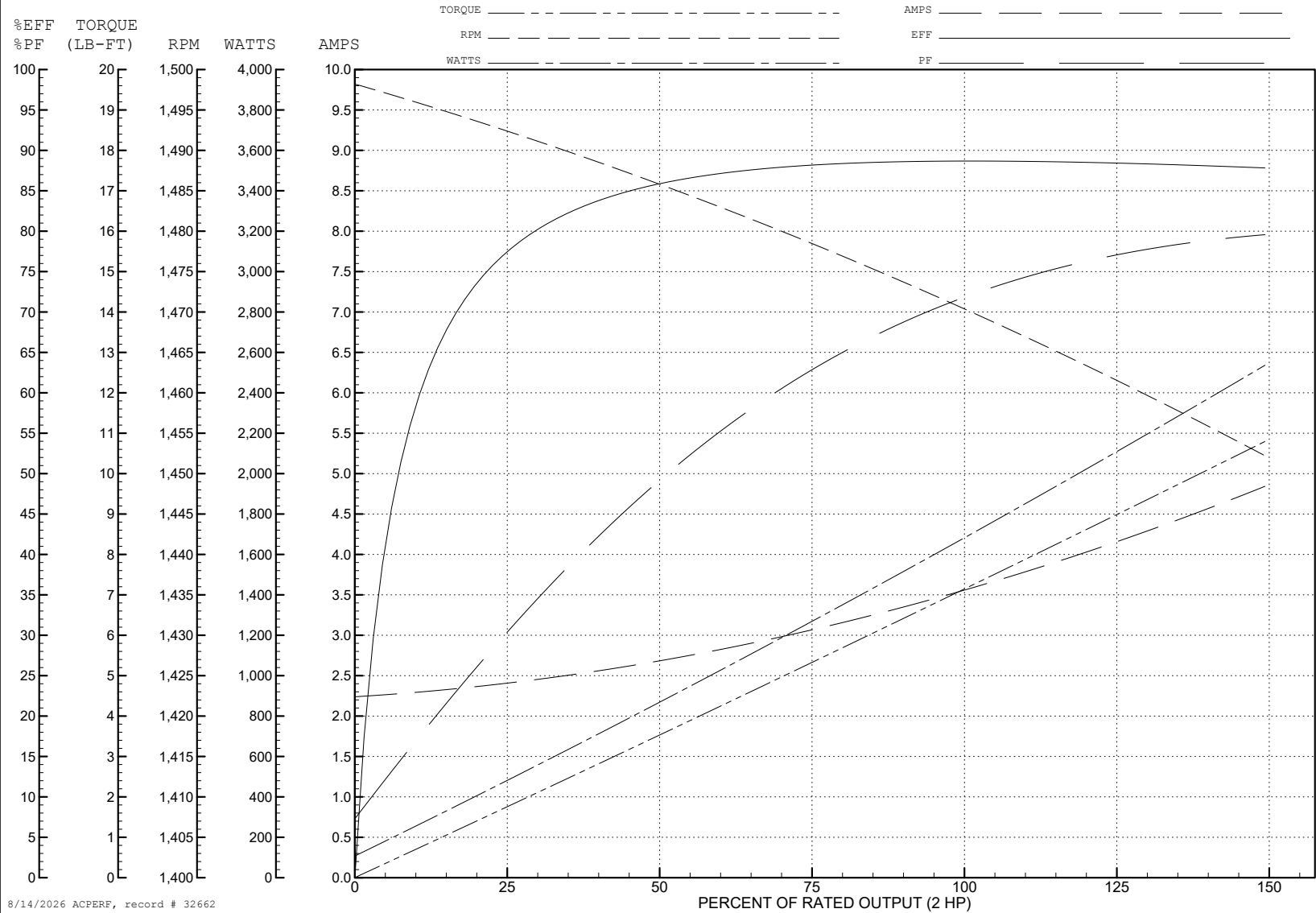
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WINDING # 36WGS266

Typical performance - not guaranteed values.

2 HP 3 PH 50 HZ 1471 RPM 380 V 3632M

TORQUES (LB-FT): PO=35.4 PU=15.4 LR=22 LRA=31.5



AC Induction Motor Performance Data

Record # 33191

Typical performance - not guaranteed values

Winding: 36WGS266-R004			Type: 3632M		Enclosure: XPFC			
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.)		1.15		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		
S.F. Amps				Temp. Rise @ S.F. Load		52°C		
				Locked-rotor Power Factor		42.2		
				Rotor inertia		0.298 LB-FT2		

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	55	68	75	80	82	77
Efficiency	81.1	87.8	89.6	89.8	89.7	88.2	89.2
Speed	1791	1783	1773	1764	1753	1741	1754
Line amperes	2.47	2.85	3.43	4.09	4.89	5.78	4.63

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WINDING # 36WGS266

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1764 RPM 460 V 3632M

TORQUES (LB-FT): PO=37.6 PU=15.2 LR=21.7 LRA=32.7

