

ABB BALDOR RELIANCE III

Customer information packet

CEM7042T

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

Class - CLI GP D; CLII GP F,G

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 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				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-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

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



