

ABB BALDOR RELIANCE III

Customer information packet

XM18342T

32M 4P XPFC HOR 182T T'STATS INVERTER

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	182T
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	3.000 HP @ 60 HZ 2.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	190.0 V @ 50 HZ 230.0 V @ 60 HZ 380.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV 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
Constant Torque Speed Range	1.3
Current @ Voltage	3.600 A @ 380.0 V 4.200 A @ 460.0 V 7.200 A @ 190.0 V 8.400 A @ 230.0 V 9.000 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover

Part Detail

Revision	G
Type	AC
Mech. spec.	36R726
Base	
Status	PRD/A
Elec. spec.	36WGR947
Layout	36LYR726
Eff. date	06-18-2026
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	12-19-2018

Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
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	3.6 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X3632M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.93 IN
Power Factor	75
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.125 IN
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

NP0887XPSLEV												
NO.							CC	010A				
S/N							TEMP CODE	T3C				
SPEC.	36R726R947G1						INV.TYPE	PWM				
CAT.NO.	XM18342T						C HP FR	60	C HP TO	90		
HP	3//2						CT HZ FROM	1.3	CT HZ TO	60		
VOLTS	230/460//190/380						VT HZ FROM	1.3	VT HZ TO	60		
AMPS	8.4/4.2//7.2/3.6						MAG CUR	4.6/2.3				
RPM	1760//1460						MX RPM	2700				
HZ	60//50	PH	3	CL	F	NOM.EFF.	89.5					
SER.F.	1.00	DES	B	SL HZ	1.3	WK2	0.3					
FRAME	182T	RATING		40C AMB-CONT								
	55C AMB AT 1.00 SF SINEWAVE											
	NEMA MG-1 PART 5, IP54						1.15 SF SINEWAVE					

AC Induction Motor Performance Data

Record # 73671

Typical performance - not guaranteed values

Winding: 36WGR947-R038			Type: 3632M		Enclosure: XPFC			
Nameplate Data					460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		3//2		Full Load Torque		8.89 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		33.5 LB-FT		
R.P.M.		1760//1460		Pull-up Torque		19.3 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		22.7 LB-FT	
NEMA Design Code		B		KVA Code	K	Starting Current		32 A
Service Factor (S.F.)		1		No-load Current		2.33 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		41°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
Power Factor	35	55	68	75	80	82
Efficiency	77.3	85.5	88	88.4	87.8	86.8
Speed	1791	1781	1771	1761	1749	1737
Line amperes	2.52	2.91	3.46	4.19	4.99	5.85

ABB Motors and Mechanical Inc.

WINDING # 36WGR947

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1761 RPM 460 V 3632M

TORQUES (LB-FT): PO=33.5 PU=19.3 LR=22.7 LRA=32





