

ABB BALDOR RELIANCE III

Customer information packet

JMXM18721T

7.5HP, 3450RPM, 3PH, 60HZ, 184JM, 3646M, XPFC

Class - CLI GP D

Division - Division I

Specifications

Enclosure	XPFC
Frame	184JM
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 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
Current @ Voltage	16.800 A @ 230.0 V 18.500 A @ 208.0 V 8.400 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T2C
Heater Indicator	No Heater
High Voltage Full Load Amps	8.4 a

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	36WGS428
Layout	36LYE309
Eff. date	08-21-2025
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	03-25-2021

Insulation Class	B
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3646M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	21.86 IN
Power Factor	93
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3450 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

NP0015XPSLEV									
NO.		CC	010A						
SER.									
SPEC.	36-0000-0496								
CAT.NO.	JMXM18721T								
HP	7.5	T. CODE	T2C						
VOLTS	230/460								
AMPS	16.8/8.4								
RPM	3450								
HZ	60	PH	3	CL	B				
SER.F.	1.00	DES	A	CODE	L				
RATING	40C AMB-CONT								
FRAME	184JM	NEMA-NOM-EFF	89.5						
		PF	93						
BLANK	NEMA MG-1 PART 5, IP54								

AC Induction Motor Performance Data

Record # 35731

Typical performance - not guaranteed values

Winding: 36WGS428-R004				Type: 3646M		Enclosure: XPFC					
Nameplate Data				460 V, 60 Hz: High Voltage Connection							
Rated Output (HP)		7.5		Full Load Torque		11.4 LB-FT					
Volts		230/460		Start Configuration		direct on line					
Full Load Amps		16.8/8.4		Breakdown Torque		57.9 LB-FT					
R.P.M.		3450		Pull-up Torque		39.9 LB-FT					
Hz		60 Phase		3		Locked-rotor Torque		48.2 LB-FT			
NEMA Design Code		A		KVA Code		L		Starting Current		91 A	
Service Factor (S.F.)		1		No-load Current		2.33 A					
NEMA Nom. Eff.		89.5		Power Factor		93		Line-line Res. @ 25°C		1.43 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		74°C					
				Locked-rotor Power Factor		44					
				Rotor inertia		0.205 LB-FT2					

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	64	85	90	93	94	94
Efficiency	86.9	90.6	91	90.1	88.8	86.5
Speed	3571	3539	3505	3468	3429	3385
Line amperes	3.14	4.59	6.43	8.43	10.5	12.9

ABB Motors and Mechanical Inc.

WINDING # 36WGS428

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 3450 RPM 460 V 3646M

TORQUES (LB-FT) : PO=57.9 PU=39.9 LR=48.2 LRA=91





