

ABB BALDOR RELIANCE III

Customer information packet

EBM3218T-DI

5HP, 1750RPM, 3PH, 60HZ, 184T, 3640M, OPEN, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	184T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV UR
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	13.600 A @ 208.0 V 6.400 A @ 460.0 V 12.800 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Brake Mounting
Front Shaft Indicator	None

Part Detail

Revision	J
Type	AC
Mech. spec.	36Q901
Base	
Status	PRD/A
Elec. spec.	36WGY404
Layout	36LYQ901
Eff. date	05-01-2024
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	09-28-2016

Heater Indicator	No Heater
High Voltage Full Load Amps	6.4 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No 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	3640M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	21.84 IN
Power Factor	81
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
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	No Slinger
Speed	1750 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor

Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1259L											
CAT.NO.	EBM3218T-DI										
SPEC.	36Q901Y404G1										
HP	5										
VOLTS	230/460										
AMP	12.8/6.4										
RPM	1750										
FRAME	184T		HZ	60				PH	3		
SER.F.	1.15	CODE	J	DES	B	CL	F				
NEMA-NOM-EFF	89.5	PF	81								
RATING	40C AMB-CONT										
CC	010A										
DE	6206		ODE	6205							
ENCL	OPEN	SN									

AC Induction Motor Performance Data

Record # 53376

Typical performance - not guaranteed values

Winding: 36WGY404-R037			Type: 3640M		Enclosure: OPSB	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		5	Full Load Torque		15 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		12.8/6.4	Breakdown Torque		52 LB-FT	
R.P.M.		1750	Pull-up Torque		30 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		32 LB-FT	
NEMA Design Code		B	KVA Code		J	
Service Factor (S.F.)		1.15	Starting Current		48 A	
NEMA Nom. Eff.		89.5	Power Factor		81	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		38°C	
S.F. Amps			Temp. Rise @ S.F. Load		46°C	
			Locked-rotor Power Factor		52	
			Rotor inertia		0.372 LB-FT2	

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	61	73	81	84	86	83
Efficiency	85	89.8	90.5	90	88.8	87.3	89.3
Speed	1786	1773	1761	1747	1732	1715	1738
Line amperes	3.5	4.2	5.2	6.4	7.8	9.3	7.2

ABB Motors and Mechanical Inc.

WINDING # 36WGY404

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1750 RPM 460 V 3640M

TORQUES (LB-FT) : PO=52 PU=30 LR=32 LRA=48





