

ABB BALDOR RELIANCE III

Customer information packet

JMEWDM3613T

5HP, 3430RPM, 3PH, 60HZ, 184JM, 3634M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184JM
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	3600 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	12.400 A @ 208.0 V 5.600 A @ 460.0 V 11.200 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	J
Type	AC
Mech. spec.	36K605
Base	
Status	PRD/A
Elec. spec.	36WGR114
Layout	36LYK605
Eff. date	06-10-2025
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	12-04-2014

Heater Indicator	No Heater
High Voltage Full Load Amps	5.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
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	3634M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	18.05 IN
Power Factor	94
Product Family	Wash Down
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3430 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

NP1669L									
CAT.NO.	JMEWDM3613T								
SPEC.	36K605R114G1								
HP	5								
VOLTS	230/460								
AMP	11.2/5.6								
RPM	3430								
FRAME	184JM		HZ	60			PH	3	
SER.F.	1.15	CODE	J	DES	B	CLASS	F		
NEMA-NOM-EFF	88.5	PF	94						
RATING	40C AMB-CONT								
CC	010A								
DE	6207		ODE	6205					
ENCL	TEFC	SN							
BLANK	20:1CT, 20:1VT, 1.00SF								

AC Induction Motor Performance Data

Record # 41699

Typical performance - not guaranteed values

Winding: 36WGR114-R001		Type: 3634M	Enclosure: TEFC
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	5	Full Load Torque	7.74 LB-FT
Volts	208-230/460	Start Configuration	direct on line
Full Load Amps	12.4-11.2/5.6	Breakdown Torque	31.7 LB-FT
R.P.M.	3430	Pull-up Torque	19.9 LB-FT
Hz	60 Phase	Locked-rotor Torque	23.1 LB-FT
NEMA Design Code	B KVA Code	Starting Current	45.5 A
Service Factor (S.F.)	1.15	No-load Current	1.17 A
NEMA Nom. Eff.	88.5 Power Factor	Line-line Res. @ 25°C	2.91 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	68°C
S.F. Amps		Temp. Rise @ S.F. Load	87°C

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	73	88	92	95	95	95	95
Efficiency	88.7	90.9	90.4	89.5	87.1	84.9	88.1
Speed	3559	3520	3478	3434	3383	3325	3403
Line amperes	1.84	2.97	4.28	5.56	7.1	8.76	6.48

ABB Motors and Mechanical Inc.

WINDING # 36WGR114

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 3430 RPM 460 V 3634M

TORQUES (LB-FT): PO=31.7 PU=19.9 LR=23.1 LRA=45.5





