

ABB BALDOR RELIANCE III

Customer information packet

EMVM3545D

.75KW, 3450RPM, 3PH, 60HZ, D80D, 3420M, TEFC, B

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	D80D
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	.750 KW @ 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 CSA UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	1.600 A @ 460.0 V 3.200 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	77.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Frame Prefix	D
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	L
Type	AC
Mech. spec.	34H339
Base	
Status	PRD/A
Elec. spec.	34WG3226
Layout	34LYH339
Eff. date	03-09-2026
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	05-05-2015

Heater Indicator	No Heater
High Voltage Full Load Amps	1.6 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	IEC
Motor Type	3420M
Mounting Arrangement	B5
Number of Poles	2
Overall Length	10.73 IN
Power Factor	82
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	D-Flange
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.748 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 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

NP3386L									
CAT.NO.	EMVM3545D								
SPEC.	34H339-3226G1								
IEC FRAME	D80D		KW		.75				
VOLTS	230/460								
AMP	3.2/1.6								
RPM	3450			ENCL			TEFC		
HZ	60		PH		3		CL		F
SER.F.	1.15		DES		B		CODE		L
NEMA-NOM-EFF	77	I.P.		44					
RATING	40C AMB-CONT								
CC	010A	USABLE AT 208V						N/A	
DE	6205	ODE		6203					
SER. #									

AC Induction Motor Performance Data

Record # 50613

Typical performance - not guaranteed values

Winding: 34WG3226-R054			Type: 3420M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (KW)		.75	Full Load Torque		1.518 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		3.2/1.6	Breakdown Torque		7.966 LB-FT	
R.P.M.		3450	Pull-up Torque		6.2 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		8.7 LB-FT	
NEMA Design Code		B	KVA Code		L	
Starting Current		14.5 A	No-load Current		0.913 A	
Service Factor (S.F.)		1.15	Line-line Res. @ 25°C		13.6 Ω	
NEMA Nom. Eff.		77	Power Factor		82	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		55°C	
S.F. Amps			Temp. Rise @ S.F. Load		74°C	
			Locked-rotor Power Factor		63.6	

Load Characteristics 460 V, 60 Hz, 0.75 KW

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	41	59	72	80	85	89	87
Efficiency	57.7	71.5	77.1	79.3	79.9	79.7	79.8
Speed	3560	3536	3506	3475	3445	3406	3422
Line amperes	0.967	1.09	1.27	1.47	1.7	1.99	1.87

ABB Motors and Mechanical Inc.

WINDING # 34WG3226

Typical performance - not guaranteed values.

0.75 KW 3 PH 60 HZ 3450 RPM 460 V 3420M

TORQUES (LB-FT): PO=7.966 PU=6.2 LR=8.7 LRA=14.5





