

ABB BALDOR RELIANCE III

Customer information packet

EMVM3546D

0.75KW, 1770RPM, 3PH, 60HZ, D80D, 3520M, TEFC

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	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV 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 @ 208.0 V 3.200 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Frame Prefix	D
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	B
Type	AC
Mech. spec.	35Q176
Base	
Status	PRD/A
Elec. spec.	35WGG004
Layout	35LYQ176
Eff. date	01-05-2026
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	03-11-2022

High Voltage Full Load Amps	1.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	IEC
Motor Type	3520M
Mounting Arrangement	B5
Number of Poles	4
Overall Length	11.61 IN
Power Factor	69
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	D-Flange
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.748 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 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.	EMVM3546D								
SPEC.	35Q176G004G1								
IEC FRAME	D80D	KW		0.75					
VOLTS	230/460								
AMP	3.2/1.6								
RPM	1770			ENCL			TEFC		
HZ	60	PH		3	CL		F		
SER.F.	1.15	DES		B	CODE		N		
NEMA-NOM-EFF	85.5	I.P.	54						
RATING	40C AMB-CONT								
CC	010A	USABLE AT 208V						N/A	
DE	6205	ODE	6203						
SER. #	SFA 3.4/1.7								

AC Induction Motor Performance Data

Record # 87097

Preliminary Data Sheet

Winding: 35WGG004-R011			Type: 3520M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection		
Rated Output (KW)		.75		Full Load Torque		2.99 LB-FT
Volts		230/460		Start Configuration		direct on line
Full Load Amps		3.2/1.6		Breakdown Torque		13.68 LB-FT
R.P.M.		1770		Pull-up Torque		7.85 LB-FT
Hz	60	Phase	3	Locked-rotor Torque		9.01 LB-FT
NEMA Design Code		B	KVA Code	Starting Current		14.13 A
Service Factor (S.F.)		1.15		No-load Current		1.08 A
NEMA Nom. Eff.		85.5	Power Factor	Line-line Res. @ 25°C		16.9 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		24°C
S.F. Amps		3.4/1.7		Temp. Rise @ S.F. Load		28°C
				Locked-rotor Power Factor		61.5
				Rotor inertia		0.144 lb-ft²

Load Characteristics 460 V, 60 Hz, 0.75 KW

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	48	60	69	76	79	73
Efficiency	72.1	81.7	84.6	85.7	85.5	84.7	85.6
Speed	1791	1784	1776	1768	1759	1750	1763
Line amperes	1.11	1.22	1.38	1.6	1.83	2.1	1.74

ABB Motors and Mechanical Inc.

WINDING # 35WGG004

Typical performance - not guaranteed values.

0.75 KW 3 PH 60 HZ 1770 RPM 460 V 3520M

TORQUES (LB-FT): PO=13.68 PU=7.85 LR=9.01 LRA=14.13





