

ABB BALDOR RELIANCE III

Customer information packet

EMVM3550D

1.1KW, 3500RPM, 3PH, 60HZ, D80D, 3520M, 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	1.100 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	UR CSA CSA EEV
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	4.000 A @ 208.0 V 3.800 A @ 230.0 V 1.900 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Frame Prefix	D
Front Face Code	Standard

Part Detail

Revision	P
Type	AC
Mech. spec.	35Q176
Base	
Status	PRD/A
Elec. spec.	35WGM760
Layout	35LYQ176
Eff. date	01-05-2026
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	05-06-2015

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.9 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	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	3520M
Mounting Arrangement	B5
Number of Poles	2
Overall Length	11.61 IN
Power Factor	85
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	3500 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.	EMVM3550D					
SPEC.	35Q176M760G1					
IEC FRAME	D80D	KW	1.1			
VOLTS	230/460					
AMP	3.8/1.9					
RPM	3500		ENCL		TEFC	
HZ	60	PH	3	CL	F	
SER.F.	1.15	DES	B	CODE	L	
NEMA-NOM-EFF	84	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 # 58452

Typical performance - not guaranteed values

Winding: 35WGM760-R065			Type: 3520M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (KW)		1.1	Full Load Torque		2.22 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		3.8/1.9	Breakdown Torque		9.49 LB-FT	
R.P.M.		3500	Pull-up Torque		3.61 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		7.35 LB-FT	
NEMA Design Code		B KVA Code	Starting Current		17.9 A	
Service Factor (S.F.)		1.15	No-load Current		0.932 A	
NEMA Nom. Eff.		84 Power Factor	Line-line Res. @ 25°C		12.315 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		43°C	
S.F. Amps			Temp. Rise @ S.F. Load		51°C	
			Locked-rotor Power Factor		60.1	
			Rotor inertia		0.0553 LB-FT2	

Load Characteristics 460 V, 60 Hz, 1.1 KW

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	67	79	85	90	91	88
Efficiency	72.4	82	84.6	85	84.4	82.9	84.6
Speed	3574.8	3551.3	3525.8	3497.6	3466.3	3432.6	3479
Line amperes	1.03	1.25	1.55	1.91	2.31	2.79	2.15

ABB Motors and Mechanical Inc.

WINDING # 35WGM760

Typical performance - not guaranteed values.

1.1 KW 3 PH 60 HZ 3500 RPM 460 V 3520M

TORQUES (LB-FT) : PO=9.49 PU=3.61 LR=7.35 LRA=17.9





