

ABB BALDOR RELIANCE III

Customer information packet

EJM3550

1.5HP, 3450RPM, 3PH, 60HZ, 56J, 3520M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56J
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	1.500 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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	3.800 A @ 230.0 V 4.000 A @ 208.0 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
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	U
Type	AC
Mech. spec.	35K521
Base	
Status	PRD/A
Elec. spec.	35WGM760
Layout	35LYK521
Eff. date	01-12-2026
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	05-18-2015

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	NEMA
Motor Type	3520M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	12.72 IN
Power Factor	85
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Ext Thread
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.30
Shaft Diameter	0.625 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

NP3441L											
CAT.NO.		EJM3550									
SPEC.		35K521M760G2									
HP		1.5									
VOLTS		208-230/460									
AMP		4-3.8/1.9									
RPM		3450									
FRAME		56J		HZ		60		PH		3	
SER.F.		1.30	CODE		L	DES	B	CL	F		
NEMA-NOM-EFF		84	PF		85						
RATING		40C AMB-CONT									
CC		010A									
DE		6205	ODE		6203						
ENCL		TEFC	SN								
VPWM INVERTER READY											
CT6-60H(10:1)VT3-60H(20:1											
SFA 5.2-4.8/2.4											

AC Induction Motor Performance Data

Record # 70921

Typical performance - not guaranteed values

Winding: 35WGM760-R080			Type: 3520M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1.5	Full Load Torque		2.22 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		4-3.8/1.9	Breakdown Torque		9.49 LB-FT		
R.P.M.		3450	Pull-up Torque		3.61 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		7.35 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		17.9 A
Service Factor (S.F.)		1.3		No-load Current		0.932 A	
NEMA Nom. Eff.		84	Power Factor	85	Line-line Res. @ 25°C		12.2 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		43°C	
S.F. Amps		5.2-4.8/2.4		Temp. Rise @ S.F. Load		58°C	
				Locked-rotor Power Factor		60.1	
				Rotor inertia		0.0553 LB-FT2	

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	67	79	85	89	90	89
Efficiency	72.2	82.1	84.4	84.7	84.3	82.7	84
Speed	3575	3551	3526	3498	3466	3433	3459
Line amperes	1.03	1.25	1.55	1.91	2.31	2.79	2.41

ABB Motors and Mechanical Inc.

WINDING # 35WGM760

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 3450 RPM 460 V 3520M

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



