

ABB BALDOR RELIANCE III

Customer information packet

EM31154A

1.5HP, 1760RPM, 3PH, 60HZ, 56, 3526M, OPEN, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	56
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	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CURUSEEV
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	2.200 A @ 460.0 V 4.400 A @ 230.0 V 4.600 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.2 a
Insulation Class	F

Part Detail

Revision	A
Type	AC
Mech. spec.	35B011
Base	
Status	PRD/A
Elec. spec.	35WGK546
Layout	35LYB011
Eff. date	01-02-2025
CD Diagram	CD0007
Poles	04
Leads	12#18
Proprietary	False
Created date	11-14-2024

Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	12 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3526M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.07 IN
Power Factor	76
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1760 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	Automatic Thermal Overload
Winding Thermal 1 Location	ES
Winding Thermal 2	None

Nameplate

NP3273L											
CAT.NO.	EM31154A										
SPEC.	35B011K546G1										
HP	1.5										
VOLTS	230/460										
AMP	4.4/2.2										
RPM	1760										
FRAME	56			HZ	60			PH	3		
SER.F.	1.15		CODE	L	DES	B	CL	F			
F.L. AVG. EFF.	86.5		PF	76							
RATING	40C AMB-CONT										
CC											
DE	6205			ODE	6203						
ENCL	OPEN	SN									

AC Induction Motor Performance Data

Record # 107640

Typical performance - not guaranteed values

Winding: 35WGK546-R001			Type: 3526M		Enclosure: OPSB		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1.5	Full Load Torque		4.514 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		4.4/2.2	Breakdown Torque		19.1 LB-FT		
R.P.M.		1760	Pull-up Torque		10.8 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		12.7 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		17.1 A
Service Factor (S.F.)		1.15	No-load Current		1.24 A		
NEMA Nom. Eff.		86.5	Power Factor	76	Line-line Res. @ 25°C		12.836 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		27°C
S.F. Amps					Temp. Rise @ S.F. Load		33°C
					Locked-rotor Power Factor		58.7
					Rotor inertia		0.188 lb-ft²

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	55	68	76	81	84	79
Efficiency	78.6	85.5	86.9	86.5	85.3	83.6	85.8
Speed	1788.3	1778.6	1767.9	1756.2	1743.7	1729.5	1749
Line amperes	1.31	1.51	1.8	2.15	2.56	3.01	2.4

ABB Motors and Mechanical Inc.

WINDING # 35WGK546

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1760 RPM 460 V 3526M

TORQUES (LB-FT): PO=19.1 PU=10.8 LR=12.7 LRA=17.1





