

ABB BALDOR RELIANCE III

Customer information packet

EBM3554T-S

1.5HP, 1750RPM, 3PH, 60HZ, 145TY, 3526M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	145TY
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	CE CURUSEEV NEMA PREMIUM UKCA WEEE
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	4.500 A @ 230.0 V 2.250 A @ 460.0 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

Part Detail

Revision	A
Type	AC
Mech. spec.	35X162
Base	
Status	PRD/A
Elec. spec.	35WGG524
Layout	35LYX162
Eff. date	01-07-2026
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	10-03-2024

Heater Indicator	No Heater
High Voltage Full Load Amps	2.3 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3526M
Mounting Arrangement	F3
Number of Poles	4
Overall Length	15.40 IN
Power Factor	73
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	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1750 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

NP2934L											
CAT.NO.	EBM3554T-S										
SPEC.	35X162G524G1										
HP	1.5										
VOLTS	230/460										
AMP	4.5/2.25										
R.P.M. (1/MIN)	1750										
FRAME	145TY		HZ		60		PH		3		
SER.F.	1.15		CODE		M		DES		B		
							CL		F		
NEMA-NOM-EFF	86.5		PF		73						
RATING	40C AMB-CONT										
CC	010A										
DE	6205		ODE		6205						
ENCL	TEFC		SN								
	IP22, BRK 10 FT-LB										

AC Induction Motor Performance Data

Record # 107443

Typical performance - not guaranteed values

Winding: 35WGG524-R006			Type: 3526M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		1.5		Full Load Torque		4.51 LB-FT
Volts		230/460		Start Configuration		direct on line
Full Load Amps		4.5/2.25		Breakdown Torque		21 LB-FT
R.P.M.		1750		Pull-up Torque		14.3 LB-FT
Hz	60	Phase	3	Locked-rotor Torque		17.5 LB-FT
NEMA Design Code		B	KVA Code	Starting Current		20.1 A
Service Factor (S.F.)		1.15		No-load Current		1.41 A
NEMA Nom. Eff.		86.5	Power Factor	Line-line Res. @ 25°C		9.85 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		41°C
S.F. Amps				Temp. Rise @ S.F. Load		49°C
				Locked-rotor Power Factor		62.7
				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	32	51	64	73	78	82	76
Efficiency	75.5	84.3	86.5	86.8	86.3	85.1	86.5
Speed	1788	1777	1765	1753	1740	1726	1745
Line amperes	1.48	1.65	1.92	2.23	2.61	3.03	2.46

ABB Motors and Mechanical Inc.

WINDING # 35WGG524

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1750 RPM 460 V 3526M

TORQUES (LB-FT): PO=21 PU=14.3 LR=17.5 LRA=20.1





