

ABB BALDOR RELIANCE III

Customer information packet

CEM3154T-G

1.5HP, 1740RPM, 3PH, 60HZ, 145TC, 3526M, OPSB

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	145TC
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 NEMA PREMIUM
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	2.100 A @ 460.0 V 4.200 A @ 208.0 V 4.200 A @ 230.0 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	2.1 a

Part Detail

Revision	B
Type	AC
Mech. spec.	35E2907
Base	
Status	PRD/A
Elec. spec.	35WGS094
Layout	35LYE2907
Eff. date	01-05-2026
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	10-25-2024

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
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	NEMA
Motor Type	3526M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.12 IN
Power Factor	77
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1740 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

NP3553LUA									
CAT.NO.	CEM3154T-G								
SPEC.	35E2907S094G1								
HP	1.5								
VOLTS	230/460								
AMPS	4.2/2.1								
RPM	1740								
FRAME	145TC		HZ	60			PH	3	
SF	1.15	CODE	K	DES	B	CLASS	F		
NEMA NOM. EFF	86.5	PF	77						
RATING	40C AMB-CONT								
CC	010A								
ENCL	OPSB	SN							
DE	6205		ODE	6203					
VPWM INVERTER READY									
CT30-60(2:1) VT3-60(20:1)									
USABLE AT									

AC Induction Motor Performance Data

Record # 112123

Typical performance - not guaranteed values

Winding: 35WGS094-R007				Type: 3526M		Enclosure: OPSB	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1.5		Full Load Torque		4.5 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		4.2/2.1		Breakdown Torque		19 LB-FT	
R.P.M.		1740		Pull-up Torque		10.6 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		13.9 LB-FT	
NEMA Design Code		B	KVA Code	Starting Current		18.4 A	
Service Factor (S.F.)		1.15		No-load Current		1.36 A	
NEMA Nom. Eff.		86.5	Power Factor	Line-line Res. @ 25°C		12.3 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		47°C	
S.F. Amps				Temp. Rise @ S.F. Load		57°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	33	53	67	76	82	86	80
Efficiency	76.6	84.5	86.4	86.8	86	84.7	86.3
Speed	1790	1781	1771	1761	1750	1737	1754
Line amperes	1.41	1.58	1.83	2.14	2.5	2.91	2.36

ABB Motors and Mechanical Inc.

WINDING # 35WGS094

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1740 RPM 460 V 3526M

TORQUES (LB-FT): PO=19 PU=10.6 LR=13.9 LRA=18.4





