

ABB BALDOR RELIANCE III

Customer information packet CL3514

1.5HP, 1725RPM, 1PH, 60HZ, 56C, 3532LC, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	1.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	C UR US
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	12.200 A @ 115.0 V 6.100 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.1 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	M
Type	AC
Mech. spec.	35E024
Base	
Status	PRD/A
Elec. spec.	35WGG242
Layout	35LYE024
Eff. date	02-12-2026
CD Diagram	CD0055
Poles	04
Leads	6#18
Proprietary	False
Created date	08-01-2022

IP Rating	NONE
KVA Code	H
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3532LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.10 IN
Power Factor	98
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
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	1725 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

NP1256L									
CAT.NO.	CL3514								
SPEC.	35E024G242								
HP	1.5								
VOLTS	115/230								
AMP	12.2/6.1								
RPM	1725								
FRAME	56C		HZ	60			PH	1	
SER.F.	1.15	CODE	H	DES	L	CLASS	F		
NEMA-NOM-EFF	80	PF	98						
RATING	40C AMB-CONT								
CC									
DE	6205		ODE	6203					
ENCL	TEFC	SN							

AC Induction Motor Performance Data

Record # 105134

Typical performance - not guaranteed values

Winding: 35WGG242-R001			Type: 3532LC		Enclosure: TEFC		
Nameplate Data			115 V, 60 Hz: Low Voltage Connection				
Rated Output (HP)		1.5	Full Load Torque		4.57 LB-FT		
Volts		115/230	Start Configuration		direct on line		
Full Load Amps		12.2/6.1	Breakdown Torque		9.9 LB-FT		
R.P.M.		1725	Pull-up Torque		8.1 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		13 LB-FT	
NEMA Design Code		L	KVA Code	H	Starting Current		88 A
Service Factor (S.F.)		1.15	No-load Current		1.68 A		
NEMA Nom. Eff.		80	Power Factor	98	Line-line Res. @ 25°C		0.517 Ω A Ph 1.32 Ω B Ph
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		61°C
S.F. Amps					Temp. Rise @ S.F. Load		76°C
					Locked-rotor Power Factor		91.9
					Rotor inertia		0.232 lb-ft²

Load Characteristics 115 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	94	98	98	98	97	96	97
Efficiency	71.4	82.4	84	82.2	77.7	70.5	79.5
Speed	1782	1765	1746	1723	1690	1642	1703
Line amperes	3.54	6.02	8.84	12.06	16.08	21.4	14.5

ABB Motors and Mechanical Inc.

WINDING # 35WGG242

Typical performance - not guaranteed values.

1.5 HP 1 PH 60 HZ 1725 RPM 115 V 3532LC

TORQUES (LB-FT): PO=9.9 PU=8.1 LR=13 LRA=88



