

ABB BALDOR RELIANCE III

Customer information packet

CFSWDL3509

1HP, 3450RPM, 1PH, 60HZ, 56C, 3524L, TEFC, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56C
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	1.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	UR CSA
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	11.600 A @ 115.0 V 5.800 A @ 230.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	68.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	5.8 a

Part Detail

Revision	E
Type	AC
Mech. spec.	35E4732
Base	
Status	PRD/A
Elec. spec.	35WGL350
Layout	35LYE4732
Eff. date	08-30-2023
CD Diagram	CD0648
Poles	02
Leads	4#16 A PH 15" lead length,3#18 B PH dbl dip & bake,0#0 0 CDY
Proprietary	False
Created date	07-21-2017

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Finish	UNPAINTED
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	@ AWG 4 @ 16 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3524L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.96 IN
Power Factor	80
Product Family	WD All SD Non-Encapsulated
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.25
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

NP4427ALG30

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AC Induction Motor Performance Data

Record # 67393

Typical performance - not guaranteed values

Winding: 35WGL350-R001			Type: 3524L		Enclosure: TEFC		
Nameplate Data			230 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1	Full Load Torque		1.516 LB-FT		
Volts		115/230	Start Configuration		direct on line		
Full Load Amps		11.6/5.8	Breakdown Torque		4.11 LB-FT		
R.P.M.		3450	Pull-up Torque		3.53 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		5.64 LB-FT	
NEMA Design Code		N	KVA Code	K	Starting Current		39.5 A
Service Factor (S.F.)		1.25		No-load Current		3.55 A	
NEMA Nom. Eff.		68	Power Factor	80	Line-line Res. @ 25°C		2.097 Ω A Ph 1.1004 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		75°C	
S.F. Amps		13.8/6.9		Temp. Rise @ S.F. Load		100°C	

Load Characteristics 230 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	57	69	77	81	85	87	85
Efficiency	36.9	52.1	60.8	65.3	66.8	66.9	66.8
Speed	3564.8	3547.2	3529	3511.3	3485.8	3458.1	3486
Line amperes	3.96	4.63	5.38	6.19	7.28	8.44	7.28

ABB Motors and Mechanical Inc.

WINDING # 35WGL350

Typical performance - not guaranteed values.

1 HP 1 PH 60 HZ 3450 RPM 230 V 3524L

TORQUES (LB-FT) : PO=4.11 PU=3.53 LR=5.64 LRA=39.5





