

ABB BALDOR RELIANCE III

Customer information packet

VFSWDL3504

.5HP, 1750RPM, 1PH, 60HZ, 56C, 3520L, TEFC, F1

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	.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	WEEE C UR US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	3.650 A @ 230.0 V 7.300 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	66.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.7 a
Insulation Class	F

Part Detail

Revision	C
Type	AC
Mech. spec.	35E4628
Base	
Status	PRD/A
Elec. spec.	35WGG506
Layout	35LYE4628
Eff. date	12-20-2023
CD Diagram	CD0648
Poles	04
Leads	7#18
Proprietary	False
Created date	02-23-2023

Inverter Code	Not Inverter
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Finish	UNPAINTED
Motor Lead Quantity/Wire Size	7 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3520L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.96 IN
Power Factor	65
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	1.15
Shaft Diameter	0.625 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

NP4427ALG30

LUBRICATION

AC Induction Motor Performance Data

Record # 95486

Typical performance - not guaranteed values

Winding: 35WGG506-R001			Type: 3520L		Enclosure: TEFC	
Nameplate Data			115 V, 60 Hz: Low Voltage Connection			
Rated Output (HP)		.5	Full Load Torque		1.5 LB-FT	
Volts		115/230	Start Configuration		direct on line	
Full Load Amps		7.3/3.65	Breakdown Torque		4.6 LB-FT	
R.P.M.		1750	Pull-up Torque		3.4 LB-FT	
Hz	60 Phase	1	Locked-rotor Torque		5.3 LB-FT	
NEMA Design Code		N	KVA Code		M	
Service Factor (S.F.)		1.15	Starting Current		46 A	
Service Factor (S.F.)		1.15	No-load Current		5.77 A	
NEMA Nom. Eff.		66	Power Factor		65	
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Line-line Res. @ 25°C		1.09 Ω A Ph 1.61 Ω B Ph				
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		55°C	
S.F. Amps		7.8/3.9	Temp. Rise @ S.F. Load		60°C	
Locked-rotor Power Factor		97.4				
Rotor inertia		0.145 lb-ft²				

Load Characteristics 115 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	44	56	65	72	78	69
Efficiency	45	59.5	65.6	67.8	67.8	66	67.8
Speed	1785	1775	1763	1749	1732	1711	1739
Line amperes	5.82	6.11	6.63	7.32	8.26	9.43	7.88

ABB Motors and Mechanical Inc.

WINDING # 35WGG506

Typical performance - not guaranteed values.

0.5 HP 1 PH 60 HZ 1750 RPM 115 V 3520L

TORQUES (LB-FT): PO=4.6 PU=3.4 LR=5.3 LRA=46





