

ABB BALDOR RELIANCE III

Customer information packet

CWDM3534

.33HP, 1780RPM, 3PH, 60HZ, 56C, 3512M, TENV, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	56C
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	.330 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ 230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA UR
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	1.700 A @ 230.0 V 1.500 A @ 208.0 V .850 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	75.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	C
Type	AC
Mech. spec.	35S588
Base	
Status	PRD/A
Elec. spec.	35WGG155
Layout	35LYS588
Eff. date	04-26-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	07-05-2022

High Voltage Full Load Amps	0.9 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	S
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	3512M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.06 IN
Power Factor	49
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1780 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

NP1496L											
CAT.NO.	CWD3534										
SPEC.	35S588G155G4										
HP	.33										
VOLTS	208-230/460										
AMP	1.5-1.7/.85										
RPM	1780										
FRAME	56C		HZ	60				PH	3		
SER.F.	1.25		CODE	S	DES	B		CLASS	F		
NEMA-NOM-EFF	75.5		PF	49							
RATING	40C AMB-CONT										
CC											
DE	6205		ODE	6203							
ENCL	TENV		SN								
	SFA 1.9-1.8/.9										

AC Induction Motor Performance Data

Record # 82222

Typical performance - not guaranteed values

Winding: 35WGG155-R015			Type: 3512M		Enclosure: TENV		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		.33	Full Load Torque		0.977 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		1.5-1.7/.85	Breakdown Torque		6.28 LB-FT		
R.P.M.		1780	Pull-up Torque		3.26 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		4.04 LB-FT	
NEMA Design Code		B	KVA Code	S	Starting Current		6.71 A
Service Factor (S.F.)		1.25	No-load Current		0.792 A		
NEMA Nom. Eff.		75.5	Power Factor	49	Line-line Res. @ 25°C		43.2 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		49°C
S.F. Amps		1.9-1.8/.9	Temp. Rise @ S.F. Load		53°C		
			Locked-rotor Power Factor		70.8		
			Rotor inertia		0.0866 lb-ft²		

Load Characteristics 460 V, 60 Hz, 0.33 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	22	31	41	49	57	63	57
Efficiency	47.4	63.1	70.8	75.1	77.6	79.1	77.6
Speed	1794	1789	1785	1780	1774	1769	1774
Line amperes	0.786	0.791	0.814	0.839	0.878	0.933	0.878

ABB Motors and Mechanical Inc.

WINDING # 35WGG155

Typical performance - not guaranteed values.

0.33 HP 3 PH 60 HZ 1780 RPM 460 V 3512M

TORQUES (LB-FT) : PO=6.28 PU=3.26 LR=4.04 LRA=6.71





