

ABB BALDOR RELIANCE III

Customer information packet

CEWDM3556-H

1//.75HP, 1155//970RPM, 3PH, 60//50HZ, 56HC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56HC
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	.750 HP @ 50 HZ 1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ 230.0 V @ 60 HZ 190.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM 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	3.500 A @ 208.0 V 3.200 A @ 190.0 V 3.000 A @ 230.0 V 1.600 A @ 380.0 V 1.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover

Part Detail

Revision	-
Type	AC
Mech. spec.	35E6082
Base	
Status	PRD/A
Elec. spec.	35WGG019
Layout	35LYE6082
Eff. date	06-22-2023
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	02-20-2023

Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
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	6
Overall Length	13.08 IN
Power Factor	67
Product Family	Wash Down
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	Shaft Slinger
Speed	1155 rpm 970 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

NP3956L									
CAT.NO.	CEWDM3556-H								
SPEC.	35E6082G019G1								
FRAME	56HC	H.P.		1//.75 TE					
VOLTS	230/460//190/380								
MAG. CUR.	2/1	F.L. AMPS			3/1.5//3.2/1.6				
R.P.M.	1155//970	R.P.M. MAX							
HZ.	60//50	PH.	3	CLASS		F			
SER.F.	1.15	DES.	B	SL HZ		1.57			
NEMA NOM. EFF.	82.5	WK2	0.189						
BLWR V		PH		HZ		AMPS			
RATING	40C AMB-CONT								
DE BRG	6205	ODE BRG		6203					
CC	010A	SN							
	SFA 3.7/1.85//3.5/1.75								

AC Induction Motor Performance Data

Record # 87695

Typical performance - not guaranteed values

Winding: 35WGG019-R006			Type: 3526M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1//0.75		Full Load Torque		4.479 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		3/1.5//3.2/1.6		Breakdown Torque		11.9 LB-FT	
R.P.M.		1155//970		Pull-up Torque		7.06 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		8.62 LB-FT	
NEMA Design Code		B	KVA Code	J	Starting Current		9.06 A
Service Factor (S.F.)		1.15		No-load Current		1.02 A	
NEMA Nom. Eff.		0	Power Factor	0	Line-line Res. @ 25°C		20.372 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		46°C	
S.F. Amps		3.7/1.85		Temp. Rise @ S.F. Load		56°C	
				Locked-rotor Power Factor		48.3	
				Rotor inertia		0.189 lb-ft²	

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	29	47	1	1	1	1	1
Efficiency	73.5	81.9	83.5	83.1	81.6	79.1	82.2
Speed	1192.5	1185.4	1177.6	1168.7	1159	1147	1163
Line amperes	1.07	1.21	1.41	1.67	1.98	2.35	1.86

ABB Motors and Mechanical Inc.

WINDING # 35WGG019

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1168.7 RPM 460 V 3526M

TORQUES (LB-FT): PO=11.9 PU=7.06 LR=8.62 LRA=9.06





