

ABB BALDOR RELIANCE III

Customer information packet

CESSWDM3550-H

1.5HP, 3500RPM, 3PH, 60HZ, 56HC, TENV, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	56HC
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	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	1.800 A @ 460.0 V 3.600 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	1.8 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGR929
Layout	35LY-000-350
Eff. date	06-14-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	05-28-2020

KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Finish	UNPAINTED
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3532M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	12.85 IN
Power Factor	90
Product Family	Wash Down All Stainless Steel
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3500 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

NP1953A01											
CAT.NO.	CESSWDM3550-H										
SPEC.	35-0000-0804										
HP	1.5										
VOLTS	230/460										
AMP	3.6/1.8										
RPM	3500										
FRAME	56HC		HZ	60				PH	3		
SER.F.	1.15		CODE	M	DES	B		CLASS	F		
NEMA-NOM-EFF	85.5		PF	90							
RATING	40C AMB-CONT										
CC	010A										
DE	6205		ODE	6203							
ENCL	TENV	SN									
	4:1CT 20:1VT										

AC Induction Motor Performance Data

Record # 69834

Typical performance - not guaranteed values

Winding: 35WGR929-R010			Type: 3532M		Enclosure: TENV		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1.5	Full Load Torque		2.31 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		3.6/1.8	Breakdown Torque		10.9 LB-FT		
R.P.M.		3500	Pull-up Torque		5.2 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		10.2 LB-FT	
NEMA Design Code		B	KVA Code	M	Starting Current		20.6 A
Service Factor (S.F.)		1.15		No-load Current		0.694 A	
NEMA Nom. Eff.		85.5	Power Factor	90	Line-line Res. @ 25°C		7.64 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		78°C	
S.F. Amps				Temp. Rise @ S.F. Load		90°C	
				Locked-rotor Power Factor		45.7	
				Rotor inertia		0.0885 LB-FT2	

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	55	77	86	92	93	90	93
Efficiency	73.8	82.3	85.2	86.1	85.9	85.5	86
Speed	3564	3536	3507	3476	3444	3406	3457
Line amperes	0.907	1.15	1.48	1.81	2.23	2.75	2.06

ABB Motors and Mechanical Inc.

WINDING # 35WGR929

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 3500 RPM 460 V 3532M

TORQUES (LB-FT): PO=10.9 PU=5.2 LR=10.2 LRA=20.6





