

ABB BALDOR RELIANCE III

Customer information packet

CSSWDM3541-H

0.75HP, 3450RPM, 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	.750 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	1.000 A @ 460.0 V 2.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	1.0 a
Insulation Class	F
Inverter Code	Inverter Duty

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGR090
Layout	35LY-000-350
Eff. date	02-19-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	06-03-2020

KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3520M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.97 IN
Power Factor	88
Product Family	Wash Down All Stainless Steel
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
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

Nameplate

NP1951A01											
CAT.NO.	CSSWDM3541-H										
SPEC.	35-0000-0818										
HP	.75										
VOLTS	230/460										
AMP	2/1										
RPM	3450										
FRAME	56HC			HZ		60		PH		3	
SER.F.	1.25	CODE		N	DES	B	CLASS		F		
NEMA-NOM-EFF	84			PF		88					
RATING	40C AMB-CONT										
CC											
DE	6205			ODE		6203					
ENCL	TENV	SN									
	SFA 2.6/1.3										
	4:1CT 20:1VT										

AC Induction Motor Performance Data

Record # 36586

Typical performance - not guaranteed values

Winding: 35WGR090-R005			Type: 3520M		Enclosure: TENV		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		.75	Full Load Torque		1.5 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		2/1	Breakdown Torque		6.1 LB-FT		
R.P.M.		3450	Pull-up Torque		4.3 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		5.1 LB-FT	
NEMA Design Code		B	KVA Code		N		
Service Factor (S.F.)		1.25	No-load Current		0.545 A		
NEMA Nom. Eff.		84	Power Factor		88		
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		67°C
S.F. Amps		2.6/1.3	Temp. Rise @ S.F. Load		84°C		
			Locked-rotor Power Factor		53		
			Rotor inertia		0.0553 LB-FT2		

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	51	71	82	86	90	89	90
Efficiency	72.8	82.5	85.2	85.6	85.4	84.2	85.4
Speed	3567	3538	3509	3477	3443	3406	3443
Line amperes	0.633	0.803	1.01	1.26	1.5	1.83	1.5

ABB Motors and Mechanical Inc.

WINDING # 35WGR090

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 3450 RPM 460 V 3520M

TORQUES (LB-FT): PO=6.1 PU=4.3 LR=5.1 LRA=11.3





