

ABB BALDOR RELIANCE III

Customer information packet

CESSWDM3545-H

1HP, 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	1.000 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	UR CSA
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	1.300 A @ 460.0 V 2.600 A @ 230.0 V 2.800 A @ 208.0 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	1.3 a
Insulation Class	F

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGR090
Layout	35LY-000-350
Eff. date	06-14-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	05-26-2020

Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Finish	UNPAINTED
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

NP1953A01											
CAT.NO.	CESSWDM3545-H										
SPEC.	35-0000-0796										
HP	1										
VOLTS	230/460										
AMP	2.6/1.3										
RPM	3450 SFA 3/1.5										
FRAME	56HC			HZ	60				PH	3	
SER.F.	1.25		CODE	L	DES	B		CLASS	F		
NEMA-NOM-EFF	84			PF	88						
RATING	40C AMB-CONT										
CC	010A										
DE	6205			ODE	6203						
ENCL	TENV	SN									
	4:1CT 20:1VT										

AC Induction Motor Performance Data

Record # 51814

Typical performance - not guaranteed values

Winding: 35WGL314-R001			Type: 3520M		Enclosure: TENV			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		1	Full Load Torque		1.52 LB-FT			
Volts		230/460	Start Configuration		direct on line			
Full Load Amps		2.8/1.4	Breakdown Torque		8.51 LB-FT			
R.P.M.		3450	Pull-up Torque		6.16 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		8.01 LB-FT		
NEMA Design Code		B	KVA Code	N	Starting Current		15.1 A	
Service Factor (S.F.)		1.25		No-load Current		0.722 A		
NEMA Nom. Eff.		82.5	Power Factor		82	Line-line Res. @ 25°C		10.85 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		91°C
S.F. Amps		3.2/1.6				Temp. Rise @ S.F. Load		108°C

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	44	64	76	82	86	88	86
Efficiency	67.8	79	82.4	83.4	83.4	82.5	84.5
Speed	3566.5	3536.9	3507.4	3477.1	3442.7	3405	3439
Line amperes	0.791	0.953	1.15	1.38	1.63	1.93	1.585

ABB Motors and Mechanical Inc.

WINDING # 35WGL314

Typical performance - not guaranteed values.

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

TORQUES (LB-FT): PO=8.51 PU=6.16 LR=8.01 LRA=15.1





