

ABB BALDOR RELIANCE III

Customer information packet

CESSWDM3546-H

1HP, 1770RPM, 3PH, 60HZ, 56HC, 3522M, 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	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM 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	3.340 A @ 230.0 V 3.300 A @ 208.0 V 1.670 A @ 460.0 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
Front Shaft Indicator	None

Part Detail

Revision	A
Type	AC
Mech. spec.	35E6083
Base	
Status	PRD/A
Elec. spec.	35WGZ818
Layout	35LYE6083
Eff. date	06-14-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	02-21-2023

Heater Indicator	No Heater
High Voltage Full Load Amps	1.7 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	M
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	3522M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.97 IN
Power Factor	66
Product Family	Wash Down All Stainless Steel
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 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.	CESSWDM3546-H										
SPEC.	35E6083Z818G1										
HP	1 TE										
VOLTS	230/460										
AMP	3.34/1.67										
RPM	1770										
FRAME	56HC		HZ	60				PH	3		
SER.F.	1.15		CODE	M	DES	B		CLASS	F		
NEMA-NOM-EFF	85.5		PF	66							
RATING	40C AMB-CONT										
CC	010A										
DE	6205		ODE	6203							
ENCL	TENV	SN									
	SFA 3.5/1.75										

AC Induction Motor Performance Data

Record # 57400

Typical performance - not guaranteed values

Winding: 35WGP529-R087			Type: 3524M		Enclosure: TENV	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1	Full Load Torque		2.99 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		3/1.5	Breakdown Torque		15.8 LB-FT	
R.P.M.		1760	Pull-up Torque		9.1 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		11 LB-FT
NEMA Design Code		B	KVA Code		N	
Service Factor (S.F.)		1.15	Starting Current		15 A	
NEMA Nom. Eff.		87.5	Power Factor		70	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		26°C
S.F. Amps				Temp. Rise @ S.F. Load		30°C
				Locked-rotor Power Factor		48.9
				Rotor inertia		0.142 LB-FT ²

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	28	48	60	70	76	81	74
Efficiency	74.2	83.6	86.7	87.9	87.4	87.1	87.6
Speed	1793	1785	1778	1770	1761	1753	1765
Line amperes	1.07	1.18	1.33	1.53	1.76	2	1.67

ABB Motors and Mechanical Inc.

WINDING # 35WGP529

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1760 RPM 460 V 3524M

TORQUES (LB-FT): PO=15.8 PU=9.1 LR=11 LRA=15





