

ABB BALDOR RELIANCE III

Customer information packet

CSSWDM3537-H

0.5HP, 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	.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 208.0 V @ 60 HZ 230.0 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	.800 A @ 460.0 V 1.600 A @ 230.0 V 1.800 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	72.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	0.8 a

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGQ246
Layout	35LY-000-350
Eff. date	02-19-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	06-02-2020

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3516M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.97 IN
Power Factor	75
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.	CSSWDM3537-H											
SPEC.	35-0000-0817											
HP	.5											
VOLTS	208-230/460											
AMP	1.8-1.6/.8											
RPM	3450											
FRAME	56HC			HZ		60		PH		3		
SER.F.	1.25	CODE		N	DES		B	CLASS		F		
NEMA-NOM-EFF	72			PF		75						
RATING	40C AMB-CONT											
CC												
DE	6205			ODE		6203						
ENCL	TENV	SN										
	4:1CT 20:1VT											

AC Induction Motor Performance Data

Record # 82819

Typical performance - not guaranteed values

Winding: 35WGQ246-R011			Type: 3516M		Enclosure: TENV			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		.5	Full Load Torque		0.746 LB-FT			
Volts		208-230/460	Start Configuration		direct on line			
Full Load Amps		2-1.6/.8	Breakdown Torque		4.35 LB-FT			
R.P.M.		3450	Pull-up Torque		2.47 LB-FT			
Hz	60 Phase	3	Locked-rotor Torque		2.66 LB-FT			
NEMA Design Code		B	KVA Code	N	Starting Current		7.24 A	
Service Factor (S.F.)		1.25	No-load Current		0.442 A			
NEMA Nom. Eff.		77	Power Factor		81	Line-line Res. @ 25°C		23 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		32°C	
S.F. Amps		2.3-1.8/.9	Temp. Rise @ S.F. Load		37°C			
			Locked-rotor Power Factor		56.6			

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	46	63	73	80	85	88	85
Efficiency	54.6	68.9	75	78.5	79.8	81.1	79.8
Speed	3576	3561	3544	3528	3510	3492	3510
Line amperes	0.475	0.545	0.637	0.746	0.863	0.99	0.863

ABB Motors and Mechanical Inc.

WINDING # 35WGQ246

Typical performance - not guaranteed values.

0.5 HP 3 PH 60 HZ 3450 RPM 460 V 3516M

TORQUES (LB-FT) : PO=4.35 PU=2.47 LR=2.66 LRA=7.24





