

ABB BALDOR RELIANCE III

Customer information packet

VSPM3541

.75HP, 3450RPM, 3PH, 60HZ, 56C, 3424M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56C
Frame Material	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	C UR US WEEE
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.000 A @ 230.0 V 1.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.0 a
Insulation Class	F

Part Detail

Revision	B
Type	AC
Mech. spec.	34N585
Base	
Status	PRD/A
Elec. spec.	34WGW715
Layout	34LYN585
Eff. date	03-04-2025
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	03-07-2024

Inverter Code	Not Inverter
KVA Code	L
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	3424M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.97 IN
Power Factor	81
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
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

NP4558A02LL												
CAT #	VSPM3541			WGT	30		LBS					
SER #				ENCL		TEFC						
SPEC	34N585W715			CC	010A		IP	54				
HP	.75			NEMA NOM. EFF								80
VOLTS	230/460			PF	81							
AMPS	2/1											
RATING	40C AMB-CONT											
RPM	3450				PH	3	DES	B				
FRAME	56C	HZ	60	CODE		L	CLASS		F			
SER.F.	1.25	SF AMP	2.4/1.2									
DE	6203		ODE	6203								
GREASE	POLYREX EM											
						QR						
YR												

AC Induction Motor Performance Data

Record # 100843

Typical performance - not guaranteed values

Winding: 34WGW715-R015			Type: 3424M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		.75	Full Load Torque		1.1 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		2/1	Breakdown Torque		5.4 LB-FT	
R.P.M.		3450	Pull-up Torque		4 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		5.2 LB-FT	
NEMA Design Code		B KVA Code	Starting Current		9 A	
Service Factor (S.F.)		1.25	No-load Current		0.53 A	
NEMA Nom. Eff.		80 Power Factor	Line-line Res. @ 25°C		15 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		50°C	
S.F. Amps		2.4/1.2	Temp. Rise @ S.F. Load		60°C	
			Locked-rotor Power Factor		62.1	
			Rotor inertia		0.0223 lb-ft²	

Load Characteristics 460 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	47	66	76	81	84	85	84
Efficiency	62.6	75	79.6	81.3	81.7	81.3	81.7
Speed	3559	3526	3491	3455	3415	3373	3415
Line amperes	0.59	0.7	0.85	1.03	1.22	1.44	1.22

ABB Motors and Mechanical Inc.

WINDING # 34WG715

0.75 HP 3 PH 60 HZ 3450 RPM 460 V 3424M

Typical performance - not guaranteed values.

TORQUES (LB-FT) : PO=5.4 PU=4 LR=5.2 LRA=9





