

ABB BALDOR RELIANCE III

Customer information packet

VRBM3542

.75HP, 1725RPM, 3PH, 60HZ, 56C, BRAKE, 3428M

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	56C
Frame Material	Aluminum
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	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ 208.0 V @ 60 HZ
Agency Approvals	CSA UR
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
Brake Torque	72.0 lb-in
Current @ Voltage	2.900 A @ 208.0 V 2.600 A @ 230.0 V 1.300 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	75.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Brake Mounting

Part Detail

Revision	S
Type	AC
Mech. spec.	34K208
Base	
Status	PRD/A
Elec. spec.	34WG3820
Layout	34LYK208
Eff. date	10-28-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-01-0001

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.3 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3428M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.50 IN
Power Factor	71
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1725 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

NP1893									
CAT.NO.	VRBM3542								
SPEC.	34K208-3820G1								
HP	.75								
VOLTS	208-230/460								
AMPS	2.9-2.6/1.3								
RPM	1725								
FRAME	56C		HZ	60		PH	3		
SER.F.	1.15		CODE	L	DES	B	CL	F	
FL EFF	75		PF	71					
RATING	40C AMB-CONT								
CC		USABLE AT 208V							N/A
DE	6203		ODE	6203					
ENCL	TENV		SER.						

AC Induction Motor Performance Data

Record # 20822

Typical performance - not guaranteed values

Winding: 34WG3820-R009			Type: 3428M		Enclosure: TENV		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		.75	Full Load Torque		2.25 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		2.9-2.6/1.3	Breakdown Torque		9 LB-FT		
R.P.M.		1725	Pull-up Torque		6.2 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque		8.7 LB-FT		
NEMA Design Code		B KVA Code	L		Starting Current		9.1 A
Service Factor (S.F.)		1.15	No-load Current		0.76 A		
NEMA Nom. Eff.		75 Power Factor	71		Line-line Res. @ 25°C		18.9 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		70°C		

Load Characteristics 460 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	38	55	67	75	80	83
Efficiency	57	70	75	77.7	78	78
Speed	1778	1761	1743	1724	1703	1680
Line amperes	0.81	0.9	1.04	1.2	1.4	1.62

ABB Motors and Mechanical Inc.

WINDING # 34WG3820

0.75 HP 3 PH 60 HZ 1725 RPM 460 V 3428M

Typical performance - not guaranteed values.

TORQUES (LB-FT) : PO=9 PU=6.2 LR=8.7 LRA=9.1





