

ABB BALDOR RELIANCE III

Customer information packet

BM3543

.75HP, 1140RPM, 3PH, 60HZ, 56, BRAKE, 3428M

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56
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	1200 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ 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
Blower	None
Brake Torque	6.0 lb-ft
Current @ Voltage	1.500 A @ 460.0 V 3.000 A @ 230.0 V 3.300 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	77.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Brake Mounting
Front Shaft Indicator	None

Part Detail

Revision	Y
Type	AC
Mech. spec.	34-3108
Base	
Status	PRD/A
Elec. spec.	34WGW012
Layout	34LY3108
Eff. date	11-06-2024
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	01-01-0001

Heater Indicator	No Heater
High Voltage Full Load Amps	1.5 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No 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	6
Overall Length	17.45 IN
Power Factor	59
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
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	1140 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

NP1256L									
CAT.NO.	BM3543								
SPEC.	34-3108W12-C								
HP	.75								
VOLTS	208-230/460								
AMP	3.3-3/1.5								
RPM	1140								
FRAME	56		HZ		60		PH		3
SER.F.	1.15	CODE		K	DES	B	CLASS		B
NEMA-NOM-EFF	77	PF		59					
RATING	40C AMB-CONT								
CC									
DE	6203		ODE		6203				
ENCL	TEFC	SN							
	SFA 3.5-3.2/1.6								

AC Induction Motor Performance Data

Record # 6846

Typical performance - not guaranteed values

Winding: 34WGW012-R001			Type: 3428M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		.75		Full Load Torque		3.4 LB-FT	
Volts		208-230/460		Start Configuration		direct on line	
Full Load Amps		3.3-3/1.5		Breakdown Torque		11.8 LB-FT	
R.P.M.		1140		Pull-up Torque		9.3 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		9.7 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		7.4 A
Service Factor (S.F.)		1.15		No-load Current		1.1 A	
NEMA Nom. Eff.		77	Power Factor	59	Line-line Res. @ 25°C		21.9 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		62°C	
S.F. Amps		3.5-3.2/1.6		Temp. Rise @ S.F. Load		75°C	

Load Characteristics 460 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	26	40	51	59	65	68	63
Efficiency	60	72	76	77	75	73	76
Speed	1185	1170	1155	1135	1115	1095	1125
Line amperes	1.1	1.2	1.4	1.5	1.7	2	1.6

ABB Motors and Mechanical Inc.

WINDING # 34WG012

Typical performance - not guaranteed values.

0.75 HP 3 PH 60 HZ 1140 RPM 460 V 3428M

TORQUES (LB-FT): PO=11.8 PU=9.3 LR=9.7 LRA=7.4





